General Undergraduate Catalog, 1974-1975

Marshall University

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MARSHALL UNIVERSITY

Undergraduate Catalog
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Vice President for Business Affairs

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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

**CALENDAR FOR SECOND SEMESTER 1974-75**

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 1, 3, 4, and 6 ................................ Examination Days
May 2, 5, 7, 8, and 9 .............................. 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

July 14, Monday, 8:00-3:00 ..................................... Regular Registration
July 15, Tuesday ........................................ Classes Begin
July 15, Tuesday, 4:00 p.m. .......................... Registration Closes for Second Term Last Day to Add Classes
July 17, Thursday ................................. Application for August Graduation Due in Academic Dean’s Office
July 19, Saturday ........................................ National Teacher Examinations
July 23, Wednesday ..... Final Draft of Graduate Thesis Submitted to Adviser
July 26-August 1 .................. Oral Examinations for Master's Degree
August 2, Saturday, 8:00-1:00 ..... Written Examination for Master's Degree
August 6, Wednesday .............. Approved Thesis Due in Graduate School
August 8, Friday .................. Last Day to Drop Classes With W Grade
August 15, Friday .................. Second Summer Term Ends
August 18, Monday, 9:00 a.m. .................. Final Grades Due
MARSHALL UNIVERSITY OFFICERS OF ADMINISTRATION

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Assistant Dean ..................................... Warren G. Lutz, A.B., M.A.
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Assistant Dean ................................. William S. Deel, B.A., M.S., Ed.D.
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Applied Science ................................. L. Aubrey Drewry, Jr., B.S., M.A., Ph.D.
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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 Arheiger, 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.

DEGREES AWARDED

Associate: Accounting, A.S.; Criminal Justice, A.S.; Cytotechnology, A.S.; Nursing, A.S.; Retailing, A.S.; Secretarial Studies, A.S.

Undergraduate Teaching Specialization: Art, 1-12; Art, 7-12; Biological and General Science - Comprehensive, 7-12; Business Education - Comprehensive, 7-12; Business Education - Secretarial Studies, 7-12; Business Principles, 7-12; Chemistry and General Science - Comprehensive, 7-12; Early Childhood Education, Elementary Education, English, 7-12; French, 7-12; German, 7-12; Health Education, 1-12; Health Education, 7-12; Home Economics - Comprehensive Vocational, 7-12; Journalism, 7-12; Language Arts - Comprehensive, 7-12; Latin, 7-12; Librarian, School, 1-12; Mathematics, 7-12; Mathematics - Comprehensive, 7-12; Music - Comprehensive, 7-12; Physical Education, 1-12; Physical Education, 7-12; Physics and General Science - Comprehensive, 7-12; Safety Education, 7-12; Social Studies - Comprehensive, 7-12; Spanish, 7-12; Special Education; Speech, 7-12; Speech and Hearing Therapy, 1-12.

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.

BUILDINGS

The Marshall University main campus consists of 65.5 acres near the center of Huntington. Building facilities are:
OLD MAIN, the oldest building on the campus, was built in sections between 1868 and 1908. It houses an auditorium, administrative and service offices, classrooms, and faculty offices.

NORTHCOTT HALL, completed in 1915 and named in honor of the late G. A. Northcott, a distinguished citizen of Huntington, provides facilities for the College of Business and Applied Science and the Department of Home Economics.

SCIENCE BUILDING, built in 1950 at a cost of $2,353,000 includes a 300-seat auditorium, laboratories, classrooms, offices and a greenhouse.

JAMES E. MORROW LIBRARY, main section erected in 1930 honoring a former president of the university James E. Morrow. Additions completed in 1967. Houses the geology museum.

STEWART HAROLD SMITH HALL, completed in 1967, the eight-story structure houses the departments of art, history, journalism, mathematics, modern languages, nursing education, political science, sociology and anthropology, and speech. Named for the university president who served from 1947-1968.

EVELYN HOLLBERG SMITH MUSIC HALL, completed in 1967 as part of the complex which includes the Stewart Harold Smith Hall. Total construction cost of the complex was $3,800.00. Houses the Department of Music. Named for the wife of the university president who served from 1947-1968.

OTTO GULLICKSON HALL was completed in 1961 and named in 1963 to honor an outstanding Marshall leader and teacher. The building houses the Department of Athletics, Department of Physical Education for Men, Department of Military Science and the Student Health Center. Facilities include classrooms, a main gymnasium with seating for 1,500, three auxiliary gymnasiums, a regulation swimming pool with seating for 350 spectators, a rifle range and physical therapy rooms.

WOMEN'S PHYSICAL EDUCATION BUILDING, completed in 1921, houses the Department of Physical Education for Women, and includes playing courts, and offices.

ALBERT GALLATIN JENKINS BUILDING was dedicated in 1937 and named in honor of a distinguished Confederate cavalry officer who was a native of Cabell County. It houses the College of Education offices, faculty offices, and classrooms.

UNIVERSITY DINING HALL was completed in 1940.

PRESIDENT'S HOUSE located at 1040 Thirteenth Avenue was provided as the president's resident in 1971. Located at 1515 Fifth Avenue is the house which served as the residence for university presidents from 1966 until 1971.

LAIDLEY HALL, opened in 1937, is a residence hall for women. It is named in honor of the university's founder, John Laidley.

LUCY PRICHARD HALL, was completed in 1955. Originally known as the Freshman Women's Dormitory, it was renamed in 1962 in honor of an outstanding former teacher at Marshall. In 1973 it was converted to a classroom-office building.

HODGES HALL, opened in 1937. It is named in honor of Thomas E. Hodges, a former president of the university.

SOUTH HALL, first four floors completed in 1961. Five additional floors completed in 1968. Designed for co-educational use.

WEST HALL, completed in 1964 to house women.

TWIN TOWERS RESIDENCE HALL, completed in 1969, two 17-story dormitories house nearly 1,000 men and women. Dining facility connects the skyscrapers.

MAINTENANCE, headquarters for the Department of Buildings and Grounds.

FAIRFIELD STADIUM, seating 17,000 is 8 blocks south of the campus and serves as Marshall's football stadium.
UNIVERSITY HEIGHTS CAMPUS comprises 185 acres 4 miles east of the main campus. It provides space for married student housing, field research, and recreation.

ENGINEERING BUILDING (Temporary), former State Road Commission structure now housing the Department of Engineering.

COMMUNICATIONS BUILDING, attached to the east side of Stewart Harold Smith Hall, houses the studio facilities of WMUL-TV, radio station WMUL, closed circuit television, and the Audiovisual Center. Completed in 1970.

MEMORIAL STUDENT CENTER, center of student social life, was completed in 1971. Houses the offices of the Student Government, Alumni Affairs, and Bookstore. Numerous recreational and meeting facilities provided.

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 1929-33 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.

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. Since, then, the Graduate School has steadily expanded the scope and depth of its offerings, and currently lists 32 programs in which the master’s degree may be earned: adult education, art, biological sciences, business and commerce, business education, chemistry, communication arts, counseling, early childhood education, elementary education, secondary education, educational administration, educational supervision, English, geography, health and physical education, history, home economics, journalism, library science education, mathematics, music, physical science, political science, psychology, reading education, social studies, sociology, special education, speech, speech pathology and audiology, and vocational technical education.
As the variety of these programs would indicate, the Graduate School offers the graduate student ample opportunity to acquire research techniques in the many fields of knowledge; to participate under the guidance of the graduate faculty in basic research, and in the application of the insights gained in such research to the solution of the pressing problems of our times; and to becoming skilled professionals.

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. However, 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 at Marshall University. When combined with the College Level Examination Program (C.L.E.P.), in which thirty undergraduate semester credit hours or more can be earned by examination, this provision enables the superior student to earn both a baccalaureate and a master’s degree in four years or less.

Students who want more information about any of the graduate programs should consult the Graduate Catalog, or address their inquiries to: Graduate School Office, Marshall University, Huntington, West Virginia 25701.

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.
Admissions

GENERAL ADMISSION PROCEDURE

All persons applying for admission to Marshall University must file an application and health record on forms provided by the Office of Admissions. All credentials in support of an application must be on file at least two weeks before the opening of a semester or term.

All correspondence and matters pertaining to admissions should be addressed to:
Director of Admissions
Marshall University
Huntington, West Virginia 25701

GENERAL REQUIREMENTS OF ALL APPLICANTS FOR ADMISSION

All credentials submitted in support of an application for admission become the property of the university and are not returned to the student. Such credentials include an official transcript of high school or college grades and an application for admission and a health record. The prospective student is responsible for the submission of all necessary forms and records in support of an application for admission.

Prospective students are notified as soon as action is taken on their application.

Admission is for one semester or term and may be used only for that time. If the student fails to register during the semester or term for which he has been admitted, he must file another application if he desires admission at a later date.

Admission to the university does not guarantee housing. An application for housing will be sent after the student has been admitted to Marshall University. All housing arrangements must be made through the office of the Director of Housing.

A dormitory reservation or a scholarship award or grant in aid is void unless the student applies for and is admitted to the university.

Any student admitted on the basis of false and/or incomplete credentials is subject to immediate dismissal from Marshall University.

ADMISSION OF HIGH SCHOOL GRADUATES

To be eligible for admission from an approved high school, the applicant must have been graduated and have earned a "C" (2.00) grade point average or higher for all courses taken for credit in high school. Students admitted with less than 2.00 averages will be admitted provisionally and will be required to participate in the remedial services offered by the university. The following high school units are suggested for optimal preparation for university attendance:

- English - four units
- Science - two units
- Mathematics - two units
- Social Studies - three units
- Health and Physical Education - one unit
- Foreign Language - two units

Under exceptional circumstances the requirements may be waived.

Veterans of one year or more who have been graduated from West Virginia high schools and have not attended college are also eligible for admission to Marshall University.

Admission to the university is not necessarily admission to a particular college or curriculum within the university. Each student must meet the
requirements of the college he wishes to enter, or of the degree he seeks. Entrance into certain programs may entail requirements in addition to those stated above. For example, entrance into the nursing program requires early admission and adequate performance on the ACT and entrance into the music program requires an audition. Candidates for these programs should consult with the appropriate departmental chairman. It is recommended that students interested in earning certain degrees have the following:

Bachelor of Science degree and pre-professional students - one unit of plane geometry.

Bachelor of Science in Chemistry degree - two units of algebra, half unit of geometry, half unit of trigonometry, one unit of chemistry and one unit of physics recommended.

Associate in Science in Nursing degree - one unit of chemistry recommended. A satisfactory physical examination is required. Specific information concerning admission to the nursing program should be requested.

THE AMERICAN COLLEGE TEST

Marshall University requires the American College Test (ACT) for the placement of all freshmen and transfer students who have earned less than 58 semester hours. Test scores are used in placing students in sections of English and mathematics, for scholarship and loan applications, and in the academic counseling programs of the colleges. High school students are urged to take this test during October or December of their senior year at the nearest test center. Information and applications may be secured from the high school principal or counselor. The test results must be on file in the Admissions Office before a student will be permitted to participate in orientation or registration.

ADMISSION OF TRANSFER STUDENTS

Any person who has attended another accredited institution* of collegiate grade, whether he has earned credit or not, is classified as a transfer student. The university does not at any time or under any conditions disregard college or university credits earned elsewhere in order to admit an applicant solely on the basis of his high school record. All credentials submitted in support of an application for admission become the permanent property of the university. Credit earned at other accredited colleges and universities is allowed toward a degree if applicable.

To be eligible for unconditional admission, a transfer student must present evidence that he is capable of doing university level work and should have maintained an overall average of "C" (2.0) or better on all college work previously attempted.

Applications of transfer students with cumulative averages slightly below a 2.0 may be considered for admission if the work done in other colleges is equal to or above the academic standing required of a student in good standing at Marshall University.

The policy regarding transfer of student credits and grades between two-year and four-year institutions in the public higher education system of West Virginia is as follows:

Credit and grades earned for all baccalaureate level courses at any baccalaureate degree-granting institution in the West Virginia state-supported system of higher education shall be transferable to Marshall University.

Seventy-two hours of credits and grades earned for college-parallel courses

*Accredited colleges or universities are those approved by national or regional accrediting associations or the state university in the state in which the institution is located.
completed at community colleges or branch colleges in the West Virginia system of higher education shall be transferable to Marshall University. Transfer students must fulfill the graduation requirements of Marshall University to receive a degree. Candidates for graduation must have a quality point average of 2.0 or higher on all work attempted at Marshall University. NOTE: A student who attends another institution of collegiate level during the summer session immediately following graduation from high school is admitted as an entering freshman with advanced standing.

ADMISSION OF PART-TIME STUDENTS

Part-time students must meet the same requirements as full-time students, with the exception of auditors (those who attend classes for no credit). Auditors must file an application and obtain the permission of the instructor to sit in on the class. Students out of school for one year or more are given special consideration for admission.

SPECIAL STUDENTS

Individuals who hold the baccalaureate degree from an accredited institution may enter an undergraduate college or school at Marshall University by completing the application for admission and by presenting evidence of the receipt of the degree: either final transcript or diploma.

CLASSIFICATION OF FRESHMEN ADMITTED FROM HIGH SCHOOL

Graduates of accredited high schools are admitted in good standing if their grade average on required content subjects is between C and A-. Those students admitted with less than 2.00 "C" averages will be provisionally admitted pending the results of their academic performance at Marshall University. Graduates whose scholastic average is A- (3.75) or above are admitted with honors.

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

**ADMISSION BY GENERAL EDUCATION DEVELOPMENT TEST**

Applicants, veterans and nonveterans, must be 19 years of age or past the age they would have been had they remained in high school until they graduated and must have been out of school more than one year preceding their application.

Applicants for admission who completed the test in the armed forces may have an official copy of their scores forwarded to the Office of Admissions by writing to the United States Armed Forces Institute, Madison, Wisconsin.
A non-high school graduate is admitted to Marshall University if he attains a standard score of 40 or above on each of the 5 parts of the test or an average standard score of 50 or above on the entire test. No credit is granted for completion of the college level GED Test.

PROVISIONAL ADMISSION OF HIGH SCHOOL STUDENTS

Provisional admission is granted to high school students who have attained a C (2.00) average or better at the end of the junior year of high school or any time during the senior year, but final admission is not granted until after graduation from high school and the submission of the official high school record.

EARLY ADMISSION OF ACADEMICALLY OUTSTANDING HIGH SCHOOL STUDENTS

The university admits outstanding high school students who have completed the junior year. This program permits academically outstanding and talented students to accelerate their education by attending the Summer Session between the junior and senior year of high school, or, if convenient they may enroll during the senior year. To be eligible for admission to the Summer Session under this program a student must:
1. Have completed the junior year of high school.
2. Have a B (3.00) or better average on high school subjects.
3. Have the recommendation of his high school principal.
4. File an application for admission and submit transcripts of high school credits and grades.
5. Be approved by the Director of Admissions.
6. Pay regular university fees.
For additional information concerning this program write to the Director of Admissions.

ADVANCED PLACEMENT

Marshall University will accept advanced placement in the following fields: biology, chemistry, French, German, Latin, English composition, mathematics, physics, and Spanish.

The examination is prepared by the college board and the papers graded by readers of the Educational Testing Service, Princeton, New Jersey 08504. The examination paper, with the grade and an interpretation of the grade, a set of the examination questions, a description of the course as prepared by the school in which the work was done, and the school's recommendation, are forwarded to Marshall University. Students scoring five or four on the examination are given credit while those scoring three are referred to the chairmen of the various departments for their decision as to whether credit should be given. Credit will not be allowed for students scoring below three.

COLLEGE LEVEL EXAMINATION PROGRAM

The College Level Examination Program (CLEP) is offered at Marshall University and enables students who can demonstrate a knowledge and/or proficiency in certain fields to reduce the cost in time and money for pursuing a college education by successfully completing CLEP tests for credit. Intensive reading in a particular field, on-the-job experience, adult school courses, etc. may have prepared the student to earn college credit through CLEP tests and thereby reduce the total amount of coursework needed to complete degree programs. In addition, scores on the tests may serve to validate educational experience obtained at a nonaccredited institution or through noncredit college courses.
The following policy governs the use of the CLEP at Marshall University:

(1) Subject Examinations. Students shall be awarded credit for the successful completion of any or all the CLEP Subject Examinations presently offered or developed in the future. They must achieve a score equal to or above the recommended score of the model policy of the College Board's Council on College-Level Examinations current at the time the examination was taken. Credit shall be awarded for the number of semesters for which the examination was designed. A grade shall not be assigned and the credit will not be included in the computation of the student's grade point average. The institution shall equate the CLEP credit earned with existing course offerings. If no equivalent course is offered by the institution the credit earned by CLEP examination shall be considered elective credit. Students shall not receive CLEP credit for equivalent courses in which they have already earned credit.

(2) General Examinations. Marshall University will award credit within the limits indicated below to students who attain a score of 500 or above on each section of the General Examinations. The model policy of the Council on College Level Examinations shall, upon publication, supersede the requirement for a score of 500.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Hours</th>
<th>Credit Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>6 hours</td>
<td>English Composition Credit</td>
</tr>
<tr>
<td>Natural Science</td>
<td>6 hours</td>
<td>General Education Natural Science Credit</td>
</tr>
<tr>
<td>Humanities</td>
<td>6 hours</td>
<td>General Education Humanities Credit</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>6 hours</td>
<td>General Education Social Science and History credit</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6 hours</td>
<td>General Education Mathematics Credit</td>
</tr>
</tbody>
</table>

It should be made clear to students that such credit in general education may not meet specific program requirements of the institution awarding the credit or of other institutions to which the student may later transfer. The credit shall then be used as elective credit.

(3) Academic Record. The permanent academic record of the student shall indicate which credit was earned by CLEP examinations.

(4) Enrollment. Students must be enrolled in an institution in order to receive credit from it. Students who have taken CLEP examinations prior to enrollment must submit an official CLEP transcript.

VETERANS PHYSICAL EDUCATION CREDIT

Students who are veterans with at least one year of active military service and who are eligible to receive Veterans Administration Educational Benefits, and who have completed at least 12 semester hours with a "C" average, shall upon their request be granted a maximum of four semester hours of credit in physical education. This credit is to include the general education requirement in physical education and two hours of general electives in the field of health and physical education. The specific credit to be allowed will be determined by the physical education department chairman. Veterans should initially contact the Director of Admissions concerning receipt of such credit. A copy of the DD214 Form should be presented to the Director of Admissions at this time.

INTERNATIONAL 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 08540. 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. This applicant must also file an application for admission and an official transcript of all academic credits and grades. The transcript must be sent by the
institution last attended. The Application for Admission to an Educational Institution in the United States 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.

International students at Marshall University should address questions regarding their immigration status to: Office of the United States Immigration and Naturalization Service, Pittsburgh, Pennsylvania.
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 the date of regular registration. First-time enrollees and transfer students will pay tuition on the date of regular registration. First-time enrollees and transfer students will pay tuition on the date of regular registration.

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 25.

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 student’s date of registration.

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**

**FULL-TIME STUDENTS, TWELVE SEMESTER HOURS OR MORE**

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<thead>
<tr>
<th></th>
<th>Regular Semester</th>
<th>Summer Term (5 weeks)</th>
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<tbody>
<tr>
<td>Tuition Fee</td>
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<tr>
<td>Registration Fee</td>
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<td>Student Activity-Services Fee</td>
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<tr>
<td>Nonresident undergraduate Student Services Fee</td>
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<td>Total Enrollment Fee</td>
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**PART-TIME STUDENTS, LESS THAN TWELVE SEMESTER HOURS**

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<th>Student-Activity Services**</th>
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*The Governing Board's policy statement defining the term nonresident for fee purposes is printed on page 16 of this catalog under the section entitled Policy Regarding Classification of Residents and Nonresidents For Admission and Fee Purposes.

**For a distribution of the Student Activity-Services Fee, see the Table of Allocations, on the following page.*
### Table of Allocations

#### Student Activity-Services Fee

<table>
<thead>
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<th>Hours</th>
<th>Tuition</th>
<th>Registration</th>
<th>Student-Activity Services**</th>
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#### Table of Allocations

#### Student Activity-Services Fee

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

**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.

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*The Governing Board’s policy statement defining the term nonresident for fee purposes is printed on page 16 of this catalog under the section entitled Policy Regarding Classification of Residents and Nonresidents For Admission and Fee Purposes.

**For a distribution of the Student Activity-Services Fee, see the Table of Allocation.
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

<table>
<thead>
<tr>
<th></th>
<th>Room Rent</th>
<th>Board</th>
<th>Sales Tax</th>
<th>Total Per Semester*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twin Towers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Double occupancy</td>
<td>$303.69</td>
<td>$314.27</td>
<td>$18.54</td>
<td>$636.50</td>
</tr>
<tr>
<td>Laidley, Hodges, West, and South Halls</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Double occupancy</td>
<td>283.30</td>
<td>314.27</td>
<td>17.93</td>
<td>615.50</td>
</tr>
<tr>
<td>Private room</td>
<td>303.69</td>
<td>314.27</td>
<td>18.54</td>
<td>636.50</td>
</tr>
<tr>
<td>Summer Term - 5 weeks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Twin Towers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Double occupancy</td>
<td>$ 75.34</td>
<td>$104.27</td>
<td>$ 5.39</td>
<td>$185.00**</td>
</tr>
<tr>
<td>Private room</td>
<td>94.76</td>
<td>104.27</td>
<td>5.97</td>
<td>205.00</td>
</tr>
</tbody>
</table>

*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 15 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.
Rates for Married Students Housing (84 units available)*

<table>
<thead>
<tr>
<th>Housing Type</th>
<th>Monthly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Efficiency Apartment</td>
<td>$65.00</td>
</tr>
<tr>
<td>One Bedroom Apartment (Old Building)</td>
<td>85.00</td>
</tr>
<tr>
<td>One Bedroom Apartment (New Building)</td>
<td>115.00</td>
</tr>
<tr>
<td>Two Bedroom Apartment (New Building)</td>
<td>135.00</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th></th>
<th>West Virginia Resident</th>
<th>Nonresident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrollment Fee</td>
<td>$144.00</td>
<td>$594.00</td>
</tr>
<tr>
<td>Dormitory Fee</td>
<td>615.50</td>
<td>615.50</td>
</tr>
<tr>
<td>Books, supplies</td>
<td>65.00</td>
<td>65.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$824.50</strong></td>
<td><strong>$1,274.50</strong></td>
</tr>
</tbody>
</table>

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:

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

**Enrollment and Dormitory Fees must be received by the University Cashier on or before the established due dates. No financial credit shall be extended for fees.

***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.
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 which is assigned by the Orientation Office of the Human Relations Center.

<table>
<thead>
<tr>
<th>First Regular Semester</th>
<th>Second Regular Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st installment</td>
<td>August 1, 1974</td>
</tr>
<tr>
<td>2nd installment</td>
<td>October 15, 1974</td>
</tr>
</tbody>
</table>

**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

Dormitory Rooms - Key Deposit ................................... $ 1.50

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.

*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.
Library Charges:

1. Photographic Services
   a. Xerox copies from 720 xerox copier - per exposure ... $ .10
   b. Xerox copies from 3600 xerox copier - per exposure ... .05
   c. Facsimile copies from Microfilm - per copy ............ .10
   d. Facsimile copies from Ultra microfilm - per copy ...... .25

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 thereafter .................................... .10
      Maximum fine ......................................... 5.00
   b. Reserve Material - Two-hour books and three-day books
      First hour overdue .................................... $ 1.00
      Each hour thereafter .................................... .10
      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 ............................................ $25.00
   Outside ............................................ $15.00
   Per regular semester ........................................... 7.50
   Per Summer term (5 weeks) ................................ 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 23 and 24...

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:

<table>
<thead>
<tr>
<th></th>
<th>Main Campus and Extension Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Regular Semester</td>
<td></td>
</tr>
<tr>
<td>1st period of refunds-August 27-September 9, 1974</td>
<td>90%</td>
</tr>
<tr>
<td>2nd period of refunds - September 10-September 23, 1974</td>
<td>70%</td>
</tr>
<tr>
<td>3rd period of refunds - September 24-October 7, 1974</td>
<td>50%</td>
</tr>
<tr>
<td>After October 7, 1974 - no refund</td>
<td></td>
</tr>
</tbody>
</table>

| 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
After February 17, 1975 - No refunds

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. Withdrawals 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.
Financial Aid

The financial aid program at Marshall University assists students in furthering their education through scholarships, grants, loans, and employment. The scholarship program recognizes excellent high school achievement by incoming freshmen and outstanding academic performance by upperclass students. All scholarships are awarded on the basis of scholastic achievement and in most cases, financial need. In addition, loans, grants, and employment programs exist in order to aid those students who have serious financial problems.

All forms of financial assistance are administered by the Office of Student Financial Aid consistent with the policies and procedures set forth by the Student Financial Aid Advisory Council and/or the Federal Government. It should be noted that any commitment of Federal Aid is contingent upon Federal Legislation.

The Student Financial Aid Advisory Council holds that the primary responsibility for financing a college education rests with the student and his family. Financial Aid from the university and other sources, therefore, is viewed as supplementary to the efforts of the family. In addition, students requesting financial assistance are usually expected to earn a portion of their college expenses, specifically through summer employment opportunities.

SCHOLARSHIPS AND GRANTS

Academic Scholarships

Marshall University offers a number of scholarships to incoming freshmen and upperclassmen who demonstrate academic superiority. Scholarships are based upon academic achievements, interest, activities, and in most cases, financial need. Close study is given to family income and other financial conditions.

Athletic Grants-In-Aid

Applicants for athletic grants should write to Marshall University, Director of Athletics, P.O. Box 1360, Huntington, West Virginia 25715.

Basic Educational Opportunity Grant

The Basic Educational Opportunity Grant (BEOG) was authorized by the Educational Amendments of 1972 which was passed and signed into law in June of 1972.

BEOG provides for the payment of Basic Grant awards to students attending eligible institutions of higher education and is intended to be the "floor" of a student’s financial aid package. The maximum grant eligibility for each student is $1400 less the amount the student and his family can be expected to contribute toward the student’s education. The amount of this expected family contribution is determined on the basis of a family contribution schedule developed by the U.S. Office of Education.

Supplemental Educational Opportunity Grants

Established by the Educational Amendments of 1972, Supplemental Educational Opportunity Grants are awarded to exceptionally needy students who otherwise would be unable to continue their education. Students are not required to repay funds received through the Supplemental Educational Opportunity Grants Program.
Current grants may vary from $200 to $1,000 per year. To be considered for a Supplemental Educational Opportunity Grant, a prospective applicant must demonstrate academic promise. These grants are renewable for each year of undergraduate study, provided the student maintains satisfactory academic progress and continues to demonstrate exceptional financial need. Please note that a grant will be renewed only if the student meets the above qualifications and if the financial aid office received his application for grant before the March 1 deadline date.

**LOANS**

**National Direct Student Loans**

Under the National Direct Student Loan Program, full-time undergraduates may borrow up to $1,000 a year for a maximum of $5,000 during their undergraduate college careers. Full-time graduate students may borrow up to $2,500 a year. The total of loans made to a student for all years, including any loans made to him as an undergraduate, may not exceed $10,000. The loans are based on financial need and availability of funds.

The borrower (and his co-signer, if the borrower is under eighteen (18) years of age) is required to sign a promissory note payable to Marshall University, and the borrower must declare that the proceeds of this loan will be used solely for expenses related to attendance at Marshall University.

Repayment of principal and interest at three per cent (3%) commences nine months after the date the borrower ceases to carry at least one-half the normal full-time academic load. Repayment may be deferred for graduate school or for active military duty, Peace Corps, or VISTA service. Cancellation of loans ranging from 50% to 100% is available to individuals who enter the teaching field upon leaving school.

**Nursing Student Loan Program**

The Nursing Student Loan Program for full-time students in the Department of Nursing is established on the same basis as the National Direct Student Loan Program. The purpose of this program is to increase the opportunity for the training of nurses through the establishment of a loan fund.

**Emergency Loans**

Full-time students may be granted short-term loans to meet emergency college-related costs. The maximum loan is $150 and all recipients must sign a ninety (90) day, six per cent (6%) note payable to Marshall University.

**STUDENT GUARANTEED LOAN PROGRAM**

Students who do not apply for, do not qualify for, or do not receive federal funds through the financial aid office may participate in the guaranteed loan program. A Parents' Confidential Statement is required to determine the parents' estimated contribution in arriving at an equitable loan amount. This program is administered through the student's hometown bank or State Guaranteed Agency. A student must be a resident of his home state, a citizen or permanent resident of the United States, and certified as a regularly enrolled student at the university to be eligible for consideration. Maximum awards in most cases are $1,500 per year for an undergraduate student and $2,500 per year for a graduate student. A student from a family who qualifies for interest subsidy pays no interest while in school, because the 7% interest rate which starts on issuance of the loan will be paid by the guaranteeing agency. When the
period of instruction ends, the student will start repaying the funds borrowed at the approved interest rate set by Congress until the loan is paid in full. Applications are available at hometown participating banks or from the financial aid office.

Out-of-state students should apply through the Guaranteed Student Loan Program established in their home states.

EMPLOYMENT

Under the College Work-Study Program, established under Title I (C) of the Economic Opportunity Act of 1964, Marshall University attempts to secure part-time and summer employment for students who need financial assistance to remain in school. Jobs are available both on and off campus. All placements are made on an academic year basis and reapplication is necessary each year.

A small amount of institutional employment is also available on campus. Students demonstrating financial need and/or possessing specialized or technical knowledge receive preference in job placement under this program.

A number of jobs for both male and female students are available in Huntington. Available positions are listed in the financial aid office and the Office of Career Planning and Placement.

APPLICATIONS

In order to apply for any type of financial aid at Marshall University, a student must have his parents complete a Parents' Confidential Statement (PCS). This PCS should be sent to the College Scholarship Service (CSS) in Evanston, Illinois. CSS will analyze the PCS and send a Financial Need Analysis Report (FNAR) to Marshall. This FNAR then becomes the student's statement of eligibility for financial aid. It should be noted by incoming freshmen that they can not be awarded financial aid until they have been admitted for enrollment at Marshall University. The student should also submit an institutional application for assistance to complete his requirements for consideration of financial aid.

Incoming freshmen can acquire the PCS and an application for admission to Marshall University from their high school guidance counselor or principal. Upperclassmen should bear in mind that they must re-apply each year for any type of financial aid. Upperclassmen may acquire the PCS and an institutional application form from the financial aid office, Room 124, Old Main. Independent students (those receiving no parental support) must also file a Student Financial Statement to assess their financial need. Information regarding independent status and the subsequent procedures necessary to qualify as an independent student may be obtained by writing the Financial Aid Office, Room 124, Old Main.

APPLICATION DEADLINES

All Financial Need Analysis Reports must be received by the financial aid office from the College Scholarship Service no later than March 1st.

Applications received after this date will be placed on a waiting list for later consideration pending the availability of funds.
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.

STUDENT ACTIVITIES AND CULTURAL EVENTS

Each year a multitude of cultural events is presented on the Marshall University campus enabling students to attend a wide variety of activities including plays, dances, films, lectures, orchestras, art exhibits, etc. More information is available from the office of Student Activities and Cultural Events.

The Student Activities Committees are open for applications for membership in the spring and fall of each school year. Student input into these programming committees is welcomed. The student programming committees are as follows: Cinema Arts (All movies: Magic Theatre, Bijou and Arts and Cinema), Contemporary Issues, Coffee-House, Cultural Arts, Lecture Series, Mini-Concert, Travel, and Homecoming.

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

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

- A 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.

ORIENTATION

Orientation sessions during the summer and immediately preceding the fall, spring and summer school terms introduce freshmen, transfer students and their parents to faculty and administrative staff members. These University personnel and student counselors inform, advise and develop the academic program of each student in addition to introducing the incoming student to University policies, regulations and community life.

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.

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

FACULTY-STUDENT ADVISORY PROGRAM

Each student admitted to Marshall University is assigned to a faculty adviser, usually in the field in which the student has expressed an interest. The adviser renders academic guidance by assisting in the preparation of class schedules, and by counseling on academic progress and meeting degree requirements.

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. To make normal progress toward graduation, the student should complete approximately 25 per cent of the degree requirements within a calendar year. Semester programs of nineteen hours or more may be taken with permission of the academic dean if not stipulated in a degree program.

2. SCHEDULE ADJUSTMENT. Schedule adjustment is defined as the adding or dropping of courses, or the changing of class hours or days after a person has registered in any semester or term. A specific period of Schedule Adjustment and Late Registration is defined in the Schedule of Courses printed each semester by the Office of the Registrar. At the conclusion of the defined Schedule Adjustment Period, students are no longer permitted to add classes, or make changes in class hours or days, nor are late registrations permitted. Dropping of classes after the Schedule Adjustment Period is defined under Withdrawal on page 43.

3. FULL TIME STUDENT DEFINED. A student carrying at least 12 semester hours in a regular semester, four semester hours in a single summer term. To qualify for full veterans’ benefits, a student must carry at least 12 hours in a regular semester, or four hours in a single summer term.

4. NUMBERING OF COURSES. Courses numbered 100-199 are primarily for freshmen. Courses numbered 200-299 are primarily for sophomores. Courses numbered 300-499 are primarily for juniors and seniors.

CLASSIFICATION OF STUDENTS

Students who have completed 90 hours or more of college work are classified as seniors.

Students who have completed at least 58 hours and less than 90 hours of college work are classified as juniors.

Students who have completed at least 26 hours and less than 58 hours of college work are classified as sophomores.

Students who have completed less than 26 hours of college work are classified as freshmen.

CLASSIFICATION OF ENGINEERING STUDENTS

Students who have completed 110 hours or more of college work are
classified as seniors.

Students who have completed 70 hours and less than 110 hours of college work are classified as juniors.

Students who have completed 30 hours and less than 70 hours of college work are classified as sophomores.

Students who have completed less than 30 hours of college work are classified as freshmen.

**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**

Quality points are based on the following quality point values for each semester of credit: “A”-4; “B”-3; “C”-2; “D”-1; and “F”, “WF”-0. The quality point average is computed on all work for which the student has registered with the following exceptions:

a. Courses with grades of “W” and “WP”.
b. If a student earns a grade of “D” or “F” on any course taken no later than the semester or summer term during which he attempts the sixtieth semester hour, and if he repeats this course prior to the receipt of a baccalaureate degree, the original grade shall be disregarded and the grade or grades earned when the course is repeated shall be used in determining his grade point average. The original grade shall not be deleted from the student’s record.
c. Students who began college study prior to the fall semester of 1968 or students whose records include an original grade which was reactivated following the second repeat of a course must make application to the appropriate institutional authority to assure their coverage by this regulation.
d. The institutions in which this regulation applies shall make clear to students the fact that this regulation pertains only to graduation requirements and not to requirements for teacher certification which are within the province of the West Virginia Board of Education.

-Adopted by West Virginia Board of Regents, February 8, 1972
Students in Teachers College should check with their Dean prior to the application of the above regulations of the Board of Regents to their particular academic record.

Candidates for graduation and/or teacher certification must have a quality point average of 2.0 (C) or higher.

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

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 is 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 PROBATION

Any student who has less than a 2.0 average is on academic probation.
INELIGIBILITY FOR SCHOLASTIC DEFICIENCIES

Students are subject to the academic regulations of the university. For failure to comply with such regulations, a student may be suspended as provided by the West Virginia Board of Regents.

1. A student must show marked improvement in academic performance. It is expected that the quality point average will be better than 2.0 on all work attempted during each succeeding term in which the student is enrolled. Failing to meet this standard, he may be declared ineligible to attend the next regular academic semester or may be dismissed from the university.

2. A student who has a deficit of 20 or more quality points and who did not receive better than a 2.0 average on all work attempted during the semester in which the student last enrolled may be declared ineligible to attend the next regular academic semester.

3. Colleges may apply additional eligibility requirements as stated elsewhere in this catalog under specific college requirements.

READMISSION OF STUDENTS DECLARED INELIGIBLE TO ATTEND THE REGULAR ACADEMIC YEAR

Students who have been declared ineligible for readmission to either the fall or spring semester may attend either or both of the summer sessions to improve their academic standing. After the student has reduced the quality point deficiency to fewer than 20 or by the number stipulated by their college, he or she may petition for enrollment in the First and/or Second Semester. A student who is ineligible to attend a regular academic semester may attend one or both summer sessions and take one or more courses. If the student’s academic standing does not improve, he or she will be subject to dismissal from the university.

Any student who enters another college or university following academic dismissal from Marshall University and thereafter seeks readmission to Marshall, is classified as a transfer student and is governed by the regulations applying to transfer students.

It should be understood, however, that students must have a quality point average of 2.0 or higher on all work attempted at Marshall University. Quality points earned at another institution may not be used to reduce a quality point deficiency created at Marshall. (See Board of Regents transfer policy.)

TRANSFER FROM ONE COLLEGE TO ANOTHER

All decisions regarding a student’s transfer to another college within the university is controlled by the student and the dean of the college to which the student proposes to transfer.

Individuals who are returning to the university from one or more years of active military duty are eligible to enter the college of their choice.

POLICY REGARDING THE TRANSFERABILITY OF CREDITS AND GRADES

Whereas, The Board of Regents at its meeting on June 8, 1971, recognized that the state system of higher education should provide flexible opportunities which facilitate the attainment of individual educational objectives, and

Whereas, The Board at that time recorded its intention to establish a policy concerning the transfer of credits and grades which would enable students who complete college-parallel programs in the state community colleges to obtain baccalaureate degrees in two additional years with the possible exception of certain specialized curricula,
Therefore Be It Resolved; That the West Virginia Board of Regents establishes the following policy regarding the transfer of student credits and grades between two-year and four-year institutions and between four-year institutions in the public higher educational system of West Virginia.

1. Credit and grades earned for all baccalaureate level courses at any baccalaureate degree-granting institution in the West Virginia state system of higher education shall be transferable to any other institution in the state system.

2. Seventy-two hours of credits and grades earned for college-parallel courses completed at community colleges or branch colleges in the West Virginia system of higher education shall be transferable to any baccalaureate degree-granting institution in the state system.

3. Transfer students must fulfill the graduation requirements of the institution from which they expect to receive a degree.

4. Each institution shall establish reasonable and nondiscriminatory policies that will permit transfer students from within the state system to graduate with honors.

5. Consistent with provisions 1 and 2 above, each baccalaureate degree-granting institution may require transfer students to meet any of the following standards:
   a. An average of "C" on previous work attempted, provided that the average be determined according to Board-approved regulations applicable to the institution from which the student is transferring.
   b. An average of "C" on work taken at the degree-granting institution, and an over-all "C" average according to the rules of that institution, as well as any requirements that may be established under provision 3 above.
   c. The completion of up to 36 additional hours of credit, in residence, regardless of the number of hours transferred.
   d. The completion of 16 of the last 32 hours before graduation in residence.
   e. The completion of up to 15 additional hours of credit in his major field regardless of the number of hours and the nature of the courses transferred.

Be It Further Resolved, That any policies of this Board contrary to the foregoing are rescinded.

Adopted: West Virginia Board of Regents
November 5, 1971

MINIMUM RESIDENCE REQUIREMENTS FOR GRADUATION

For all undergraduate degrees at least one year's work in residence is required, one semester of which must be in the senior year. A "year in residence" must represent not less than 36 weeks' work in residence with not less than 24 hours credit. (Except "Combined College and Professional Programs," see p. 65.)

Candidates for bachelor's degrees who enter Marshall University within 10 years prior to their graduation may graduate by meeting the requirements in effect on the date of their entrance. When the time between entrance and graduation is greater than 10 years, the student must meet the graduation requirements in effect on the date of graduation. For courses no longer offered, substitutions may be made by permission of the academic dean.

In all cases students in Teachers College must meet prevailing requirements for teacher certification.

QUALIFYING EXAMINATION IN ENGLISH COMPOSITION

To encourage an acceptable standard of written English, the university
requires for graduation a grade of C or better in English 102 or 201 H or the passing of a qualifying examination in English composition.

The examination is given six times each year: twice during each regular semester and once each summer term. Students in four-year programs take the examination at the first opportunity after they have reached junior classification (58 hours credit, including the required courses in composition). Students in associate degree (two-year) programs are eligible to take the examination in their second year, after they have passed six hours of regular freshman English (not including English 100).

Foreign students from countries whose national language is not English and students who receive A, B, or C in English 102 or 201 H are excused. For all others in the undergraduate colleges, passing the examination is a requirement for graduation. Passing the examination is also a requirement for admission to student teaching.

The date of the student's passing, or a notation of being excused, is entered in the student's permanent record. Those who do not pass the examination are required to attend the noncredit English Composition Clinic in the next half-semester before they retake it. The examination may be taken as many times as necessary.

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.

STUDY YEAR ABROAD

Basel, Switzerland

Through its membership in the Regional Council for International Education, Marshall University offers the opportunity for a unique foreign study experience in Basel, Switzerland. The program provides for one semester or an academic year of study in a curriculum designed for the undergraduate student majoring in any one of a number of fields. Attention is focused on the development of modern Europe with emphasis on art and literature, social and political issues, history, and economics.

Instruction is in English; however, all courses are taught by European professors. Although each student is required to study German during the course of the program, no prior knowledge of German is required for acceptance.
Through a preterm course of intensive German language study the student is expected to acquire a basic speaking ability as quickly as possible and, through successive courses, to acquire a good working knowledge of the language by the end of the program. Each student is required to live and take meals with a Swiss family, thus sharing a genuine foreign language situation every day and combining language learning with the other academic and intercultural experiences.

Classes are small and include seminars, discussion groups and informal consultations. Each student is given a maximum of individual attention. The entire program is under the supervision of a resident American dean.

Course listings include (Minimum, 15 hrs. credit per semester):

- Preterm - German Language and Orientation - 3 hrs.
- European History, 1789-1914 - 3 hrs.
- Modern European History - 3 hrs.
- Germany and Central Europe, 1848-1918 - 3 hrs.
- Germany and Central Europe, Colloquium - 3 hrs.
- Swiss History - 1 hr.
- Political Ideologies: 19th Century - 3 hrs.
- Political Ideologies: 20th Century - 3 hrs.
- Political Problems of Post-War Europe - 3 hrs.
- Sociology of Europe - 3 hrs.
- European Economic Patterns - 3 hrs.
- European Economic Patterns, Terms 2 - 3 hrs.
- Main Currents in 19th Century European Literature - 3 hrs.
- Main Currents in 20th Century European Literature - 3 hrs.
- Dynamics of Western Art - 3 hrs.
- Dynamics of Western Art, II - 3 hrs.
- Directed Study - Variable Credit

German (4 levels, beginning to advanced) - 3 hrs. per semester

Eligibility: Any American undergraduate may apply, although applicants attending member institutions of the Regional Council receive priority.

Fees and Costs:

For 1974-75:
- $3,800 per year; $2,250 per semester.
- (For students at non-RCIE institutions: $4,100 per year; $2,400 per semester)

The fee covers room and board, tuition, and designated program-related excursions. The amount is based on current rates of exchange. The Council reserves the right to adjust the fee should a significant change in the international monetary system make this necessary.

Each student should have a minimum of $1,000 available to meet the cost of books, laundry, independent travel and personal expenses.

Application:

Descriptive leaflet and application form available, Office of Academic Affairs, Old Main 110. Transfer of credits must be arranged in advance with faculty adviser and academic dean.

Applications should be sent to:
- Study Abroad
- Regional Council for International Education
- 1101 Bruce Hall, University of Pittsburgh
- Pittsburgh, Pennsylvania 15260

Further information may be obtained from the Pittsburgh address, or from Old Main 110.
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.

CREDIT/NON-CREDIT OPTION

A student may elect to present a maximum of 18 semester hours of credit on a credit/non-credit basis towards fulfillment of requirements of a baccalaureate degree. The decision to take a course on this basis must be made during registration and may not be changed after the end of the registration period. Courses taken on the credit/non-credit basis must be in areas other than the student's major area or teaching specialization.

Course work taken on a credit/non-credit basis will be counted for credit the same as any other course. A credit/non-credit grade, recorded as CR or NC, will not be counted in computing the student's grade-point ratio. A course that has been taken on a credit/non-credit basis in which the grade of C was awarded may be repeated either on a credit/non-credit basis or on a regular grade basis.

THE DEAN'S LIST

Students registered for 12 or more hours who, at the end of the semester, receive grades averaging B or above are considered honor students and a list of such students constitutes the Dean's List.

HONORS COURSES

Students of exceptional ability who possess a high degree of initiative may register for a departmental or interdisciplinary honors course. Such students are excused from some of the routine demands of the undergraduate courses but they are required to maintain a higher standard of academic work. Juniors with outstanding scholastic records may apply to the chairmen of the departments to enroll as candidates for honors in the field of their choosing. Students recommended by the chairman of their departments, and approved by the honors committee, may receive six to eight hours credit during their senior year in courses numbered 495H and 496H. Applicants must file by the opening of the second semester of the junior year, and must be recommended by the chairman of the major department. A 3.3 grade point average in the major and a 3.0 over-all average are required normally of applicants. In extraordinary circumstances, a student with slightly lower averages may be admitted to the program with the approval of the chairman of the department, the dean, and the honors council. Both courses must be taken in sequence in order to receive credit.

Interdisciplinary honors seminars are held for freshmen, sophomores and upperclassmen. Further information is found in the University Honors listing on page 216.
GRADUATION WITH HONORS

Candidates for graduation who have achieved special distinction in academic work are recognized at Commencement by having printed on their diplomas their honor status as determined by quality points:

- **summa cum laude** (3.85 and above)
- **magna cum laude** (3.6 to 3.84)
- **cum laude** (3.3 to 3.5)

To be eligible for graduation with honors:
1. A transfer student from a two-year college within the state system must have earned at least 56 hours of work at Marshall University (all work to be included in determining graduation with honors).
2. A transfer student from a four-year institution within the state system must have earned a minimum of 36 hours of work at Marshall University (all work to be included in determining graduation with honors).
3. All other transfer students must have earned at least 72 hours of work at Marshall University (work transferred from another institution is not included in determining graduation with honors).

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. 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.

DEGREE PROGRAMS OFFERED

Associate

Accounting  A.S.
Criminal Justice  A.S.
Cytotechnology  A.S.
Nursing  A.S.
Retailing  A.S.
Secretarial Studies  A.S.

Baccalaureate

Accounting  B.B.A.
Art  A.B.
Biological Science  B.S.
Botany  B.S.
Chemistry  B.S., B.S. Chem.
Classical Languages  A.B.
Corrections B.S.
Cytotechnology B.S. Cytotechnology
Distributive Education B.S.
Economics A.B.
Education, Early Childhood A.B.
Education, Elementary A.B.
Education, Secondary A.B.
English A.B.
Finance B.B.A.
French A.B.
Geography A.B., B.S.
Geology A.B., B.S.
German A.B.
History A.B.
Dietetics B.S.
Journalism A.B.
Law Enforcement B.S.
Management B.B.A.
Marketing B.B.A.
Mathematics B.S.
Medical Technology B.S.M.T.
Office Administration B.B.A.
Philosophy A.B.
Physics B.S.
Political Science A.B.
Psychology A.B.
Recreation B.S.
Rehabilitation Education A.B.
Sociology A.B.
Spanish A.B.
Speech A.B.
Zoology B.S.

Undergraduate Teaching Specialization

Art, 1-12
Art, 7-12
Biological and General Science - Comprehensive, 7-12
Business Education - Comprehensive, 7-12
Business Education - Secretarial Studies, 7-12
Business Principles, 7-12
Chemistry and General Science - Comprehensive, 7-12
Early Childhood Education
Elementary Education
English, 7-12
French, 7-12
German, 7-12
Health Education, 1-12
Health Education, 7-12
Home Economics - Comprehensive Vocational, 7-12
Journalism, 7-12
Language Arts - Comprehensive, 7-12
Latin, 7-12
Librarian, School, 1-12
Mathematics, 7-12
Mathematics - Comprehensive, 7-12
Music - Comprehensive, 1-12
Physical Education, 1-12
Physical Education, 7-12
Physics and General Science - Comprehensive, 7-12
Safety Education, 7-12
Social Studies - Comprehensive, 7-12
Spanish, 7-12
Special Education
Speech, 7-12
Speech and Hearing Therapy, 1-12

Master's

Graduate degree students interested in graduate offerings should refer to the Marshall University Graduate Catalog.

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<td>Music</td>
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To be of the greatest service to society, one must have a liberal view, broad sympathies, and a constructive attitude toward the rights of others. The student who receives a liberal arts education is much more likely to have this broader outlook and is also more likely to see beyond the horizon of his own personal interests than is the individual whose training has been directed along a single line of specialization.

The primary purpose of a liberal arts course is to acquaint the student "with what man has done, that is, history; with what he has thought, that is, philosophy; with what he has found out, that is, science; with what man has created, that is, art; with what he has felt and expressed, that is, literature; and with what he has worshipped, that is, religion." Knowledge alone must not be the purpose and the end of education. Courses of study should produce students able to deal with general as well as specific occasions. This faculty is best acquired by means of a liberal education and so the requirements for the Bachelor of Science degree and those for the Bachelor of Arts degree do not differ widely. In other words, one of the main purposes of the College of Arts and Sciences is to educate rather than to train. Training belongs to the more specialized schools. The person best fitted for life is usually one who combines both of these types of education.

The College of Arts and Sciences offers the following four-year degrees: Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Chemistry.

Organizations

The various departments from which students of the College of Arts and Sciences may choose courses are grouped as follows:

Division of Humanities
   Classical Studies (Latin, Greek), English, modern languages (French, German, Spanish), art, speech, music, philosophy, physical education, Bible and religion.

Division of Sciences:
   Mathematics, physics, chemistry, geology, home economics, biological science (bacteriology, botany, zoology).

Division of Social Sciences:
   History, economics, political science, journalism, psychology, geography, military science, sociology-anthropology, accounting, management, marketing, office administration.

Encouragement of Intellectual Explorations

Juniors and seniors in the College of Arts and Sciences who have made the Dean's List for two succeeding semesters are encouraged to enroll in a 300 or 400 level course which is in excess of the normal class load. Credit for such a course is given, though not to count toward the graduation requirement, and no grade is reported. Superior students are thus afforded the opportunity for intellectual exploration without having to work for a grade. Further details are available at the dean's office.

REQUIREMENTS FOR DEGREES

The Baccalaureate Degree

A student registering in the College of Arts and Sciences may elect to
receive one of the following four-year degrees: Bachelor of Arts (A.B.), Bachelor of Science (B.S.), Bachelor of Science in Chemistry (B.S. in Chem.). Each degree requires that 128 hours of credit be earned and that the general and specific requirements for the degree be met. Further the student must meet the requirements of the department in which he is majoring.

Change in Major Subjects

Students who decide to change their major subjects will be governed by the catalog in effect at the time of change. All curriculum requirements must be met.

A.B., B.S., and B.S. in Chemistry Degrees

General Requirements

1. Candidates for graduation must have a quality point average of 2.0 or higher on all work attempted at Marshall University, and the average in the major subject must be 2.0 or higher.
2. Forty-eight hours must be earned in courses numbered 300-499 for all degrees.
3. Candidates for the A.B. and B.S. degrees must earn at least 26 hours in a major subject (see specific departmental requirements) no more than six of which may be selected from courses in the 100 series. The quality point average in the major subject must be 2.0 or higher. Candidates must also earn at least 12 hours in a minor subject, no more than three of which may be from the 100 series. The minor subject may be chosen from any department in the College of Arts and Sciences.

Specific Requirements for the A.B. and B.S. Degree

HUMANITIES

I. English 101, 102 ........................................ 6 hrs.

II. Foreign Languages
   Successful completion of French 224, German 204, Greek 302, Latin 204, or Spanish 204. Science majors taking German will substitute German 323 for German 204 ...................................... 3-12 hrs.

III. Speech 103 ............................................ 0-3 hrs.
   This requirement may be waived by the Speech Department for those who have one unit of high school speech or can demonstrate a proficiency in oral communication.

IV. Literature ............................................ 6 hrs.
   Two courses to be selected from a list of literature courses recommended by the various departments within the Humanities Division.

Recommended Courses:

   Literature
   - Bible and Religion 206, 210, 304, 310, 430
   - Classics 321, 322
   - Latin - any 300 or 400 level
   - English 300, 301, 307, 310, 318, 329, 331, 340
   - Modern Languages - French 327, 328, 417, 418, 435, 436
   - German 301, 302, 417, 418
   - Spanish 312, 313, 320, 410, 485
V. Bible and Religion, Classics, and Philosophy .................. 2-3 hrs.

One course to be selected from offerings by the Departments of Bible and Religion, Classics and Philosophy.

Recommended Courses:
Bible and Religion - any course except Honors
Classics 200, 319, 435, 436
Philosophy - any course except 304, 425, 426

SOCIAL SCIENCES

I. Courses to be distributed in at least three fields from economics, history, political science, psychology, and sociology and anthropology .... 15 hrs.
The courses to satisfy this requirement are to be selected from a list provided by each of the above departments.

Recommended Courses:
Economics - any course
Geography - 100, 203
History - any course
Political Science - any course
Psychology 201, and any course for which the student has the necessary prerequisite.
Sociology-Anthropology
Anthropology 201, 343, 426, 427, 430, 455
Sociology 101, 102, 200, 313, 332, 342, 400, 401, 412, 413, 421, 433, 439

SCIENCE AND MATHEMATICS

I. Natural and Physical Sciences
Courses to be distributed in at least two fields from biological sciences, chemistry, geology and physics ......................... 12 hrs.

II. One course selected from mathematics, depending upon departmental requirements for a major, or Philosophy 304 or 453 ............. 3-5 hrs.

Total 47-62 hrs.

I. Students may take courses in physical education and R.O.T.C. but they are not required for graduation.

FOUR-YEAR CURRICULUMS

ART

Majors in the fine arts must satisfy the following requirements:
1. Art students must submit a portfolio of art work done in the freshman and sophomore years for review by the art staff prior to enrollment in advanced courses in art.
2. A successful exhibition of creative work must be presented by the student during his or her senior year.

Students in the College of Arts and Sciences may major in the fine arts and earn the A.B. degree by meeting the general and specific requirements and by taking the following 41 hours of art courses:
BIOLOGICAL SCIENCE

The major in biological science is for students who wish to study in the fields of botany and zoology and whose vocational preparation requires a background in these fields.

The major requirements include Biological Science 201 and 202, 8 hours in botany, 8 hours in zoology and 8 hours chosen under the guidance of the department chairman (total 32 hours).

Majors are required to meet all degree requirements and to take these courses:

- Biological Science 201 and 202 ........................................ 8 hrs.
- Zoology 212 and 301 or 302 ........................................ 8 hrs.
- Botany 416 and 302 or 415 or Biological Science 404 .......... 8 hrs.
- Additional hours in Botany, Zoology, or Biological Science 404 and 407 ........................................ 8 hours.
- Chemistry 211, 212, 213, 214 .................................. 8 hrs.
- Geology 200, 210L ........................................ 4 hrs.
- Physics 201, 202, 203, 204 ...................................... 8 hrs.
- Math 120 and 122 or 130 and 131 .................................. 6-8 hrs.

Recommended electives - Chemistry 327 and 361

BOTANY

Professional opportunities in the plant sciences offer excellent possibilities for employment. They include industrial and academic positions with good remuneration.

Graduate study is increasingly demanded. The B.S. degree with botany as a major prepares the student for graduate study in the field.

Majors are required to meet all degree requirements and to take the following courses:

- Biological Sciences 201, 202 and 404 .......................... 12 hrs.
- Botany 302, 415 and 416 ........................................ 12 hrs.
- Botany electives ............................................... 7-8 hrs.
- Chemistry 211, 212, 213, 214, 327 and 361 ................ 13 hrs.
- Geology 200 and 210L ........................................ 4 hrs.
- Physics 201, 202, 203, and 204 ................................ 8 hrs.
- Mathematics 120 and 122 or 130 and 131 ..................... 6-8 hrs.

CHEMISTRY

Courses offered by the Department of Chemistry provide a program of studies which allows the individuals to:

1. Obtain high quality instruction in chemistry as a scientific discipline.
2. Obtain a sound background in preparation for advanced studies.
3. Meet the qualifications of professional chemists and accrediting agencies.
4. Prepare for a professional career in medicine, dentistry, pharmacy, medical technology, engineering, nursing and other fields.

The curriculum and facilities of the department have been approved by the Committee on Professional Training of the American Chemical Society.

Curriculums

B.S. Degree, Major in Chemistry: The student must meet the general requirements for the B.S. degree, and must present credit for chemistry courses through Chemistry 356, Chemistry 307 or 357, Chemistry 345, 448 and six hours of chemistry electives. The American Chemical Society requires 32 semester hours for admission to full membership without previous experience.
B.S. in Chemistry: The curriculum meets the minimum standards of the American Chemical Society and is recommended for students intending to enter the chemical profession or to apply for graduate work in chemistry. Additional requirements are mathematics through Math 231 and one year of physics. The following sequence of courses will normally qualify the student for certification:

2. Two laboratory courses chosen from Chemistry 213, 214, 215, 216. ................................. 2 hrs.
3. Two advanced chemistry electives .............................. 4-6 hrs.
4. Mathematics through Math 231
5. One year of Physics (not including Physics 200)
6. A reading knowledge of a foreign language is strongly recommended. German is especially useful.

With the approval of his advisor, the student may substitute advanced courses in other science departments for advanced chemistry electives.

Advanced Placement

The Department of Chemistry gives advanced placement to those high school graduates who have taken the College Entrance Examination Board Advanced Placement Examination in Chemistry. Those students scoring 5 or 4 on the CEEB examination are to be given credit for Chemistry 211 and 212 while those scoring 3 on the examination are to be referred to the Chairman of the Department of Chemistry for his decision on whether credit for Chemistry 211 and 212 is to be given.

Students who have not had the opportunity to take the Advanced Placement Examination may petition the department for permission to take a special departmental examination.

CLASSICAL STUDIES

A major in Latin consists of 26 hours in Latin language courses, and includes Classics 436. Courses given in English are valuable but do not fulfill the major requirement.

ECONOMICS

The Department of Economics offers an undergraduate curriculum through the College of Arts and Sciences. The curriculum provides the student the opportunity to achieve one or more of the following objectives:

1. To help prepare students for effective participation in the decision making processes of society by offering them an opportunity to develop their ability to analyze economic problems and issues and to deepen their understanding of the operation of the economies of the U. S. and other countries. Economics deals with such subjects as economic theory, business fluctuations, distribution of resources and income, international trade, economic development, managerial decision-making, industrial relations, and the growth of national income and welfare.
2. To prepare majors for administration or research positions in business firms, government agencies, labor organizations or private foundations.
3. To provide suitable courses and instruction for those majors who plan to enter law or graduate school.

Economics majors are required to take the Advanced GRE examination in Economics prior to graduation.

Majors must fulfill the general and specific requirements for the A.B. degree and must complete the following course work: Economics 241, 242, 326, 328 and 14 additional hours in economics to be chosen with the advice and
approval of the department chairman; Mathematics 120; and Management 318. A minor may be earned by completing 12 hours in economics.

ENGLISH

English 101 and 102 or 201H are required of all freshmen and are prerequisites to all subsequent English courses.

Requirements for the English major: English 101-102, 6 hrs. or 201H; English 300, 3 hrs.; English 301, 3 hrs.; English 450 or 451, 3 hrs.; English 377, or 405 or 455, 3 hrs; English 325 or 411 or 409, 3 hrs.; electives in English, 12 hrs. Total, 33 hrs.

FORESTRY

Cooperative Plan of Study

Marshall and Duke Universities have entered into an agreement whereby a student may spend three years at Marshall and two years at Duke. At the end of the fourth year he may be eligible for the B.S. degree with a major in botany from Marshall and at the end of the fifth year, eligible for the Master of Forestry degree from Duke University. The curriculum outlined below shows the courses that must be completed to qualify for admission to Duke University. Marshall University requires a quality point average of 2.5 or higher on the three years of on-campus work. In the fourth year a sufficient number of hours must be successfully completed at Duke University to total 128 when added to those already completed at Marshall.

Forestry majors are required to meet the College of Arts and Sciences requirements for the degree and take the following courses:

- Biological Sciences 201 and 202 ........................................ 8 hrs.
- Botany 415 and 416 ......................................................... 8 hrs.
- Biological Science electives (either BSC 404 or Botany) .................. 4 hrs.
- Chemistry 211, 212, 213, 214, 327 and 361 ................................ 13 hrs.
- Physics 201, 202, 203, and 204 ........................................ 8 hrs.
- Geology 200 and 210L ..................................................... 4 hrs.
- Mathematics 120 and 122 or 130 and 131 ................................. 6-8 hrs.

GEOGRAPHY

Students in the College of Arts and Sciences may major in geography and earn the A.B. or B.S. degree by meeting the general and specific requirements and by taking the following courses in geography:

- Required in this group .................................................. 18 hrs.
  Geography 203, 305, 317, 320, 405, 429
- Required in this group ................................................... 3 hrs.
  Geography 309, 408
- Required in this group ................................................... 6 hrs.
  Geography 302, 315, 401, 403, 409, 412, 413

Total required .............................................................. 27 hrs.

GEOLOGY

The Department of Geology offers work leading toward the B.S. and A.B. degrees and the M.S. degree in Physical Science with a concentration in Geology. The major must meet the university general requirements for either the B.S. or the A.B. The B.S. candidate must complete 37 hours of required course work in the major; the A.B. candidate, 26 hours of selected course work in the major. Summer field camp is strongly recommended for both the A.B. and B.S. degree candidates between their junior and senior year.
The curriculum program can be modified for students preparing for graduate work in interdisciplinary areas of study. In general, this will mean an increase in course work in the basic sciences and a reduction of specific geology courses. This can be done only with the approval of the Chairman of the Department of Geology.

Requirements for the A.B. and B.S. degrees in Geology:

Mathematics
- A.B. degree Mathematics 130
- B.S. degree Mathematics 230 and 231 recommended

Physics
- A.B. not required
- B.S. Physics 202-204

Chemistry
- Both degrees
  - Chemistry 212, 214

Biological Science
- Both degrees
  - Biological Science 202

Geology
- 200, 201, 210, 211, 212, 313, 314, 325, 418, 421, 422, 451, 453, 454

HISTORY

Requirements of history major: 33 semester hours, including History 311, 312, 313, 321, 322.

HOME ECONOMICS

Students interested in home economics for teaching, extension work, home service work with utility companies or other related areas should follow the teacher education curriculum.

Dietitians

Students preparing to be dietitians and qualify for membership in the American Dietetic Association must follow an approved course such as the one listed. Upon successful completion of the course they may apply for admission to an internship program or may substitute preplanned experience to qualify for A.D.A. membership. Graduate internships vary in length at different institutions, the shortest being of six months duration.

Majors in dietetics are required to take the following courses:
- Home Economics 110, 203, 210, 303, 304, 403, 405, 407, 413, 420
- Biological Science 201-202, Zoology 315, Botany 302
- Chemistry 203, 204, 327, 300 and 301
- Management 424
- Accounting 215
- Educational Foundations 319*

JOURNALISM

The Department of Journalism offers four sequences of study on the undergraduate level in the College of Arts and Sciences. These sequences are news-editorial, advertising, broadcast journalism and public relations. These areas

*Field experience not required.
of study prepare students for employment in the news-editorial departments of newspapers, in mass communications advertising, in radio and television news positions and with company publications.

On completion of the requirements of the College of Arts and Sciences and the journalism sequence of student’s interest, the A.B. degree is awarded. In addition, a Certificate of Journalism may be awarded on recommendation of the faculty of the Department of Journalism.

In addition to the College of Arts and Sciences program, a journalism major in the news editorial sequence in Teachers College prepares students for a two-fold career. Graduates will qualify for certification as teachers of journalism and as professional newsmen.

**News-Editorial Sequence**

Journalism 101, 201, 202, 300, 301, 302, 308, 304 or 310, 360, 402, 414 and 440.

Recommended electives: Economics 241, Journalism 350 or 351, Journalism 430, Geography 317, History 312 or 313, Political Science 201, 202, 307, Psychology 201 and Sociology 200.

**Journalism Advertising Sequence**

Journalism 101, 201, 301, 302, 330, 335, 360, 381, 382, 402 and 425.

Recommended electives: Journalism 350, 440, Art 214, 216, Speech 230, 231, 233, 332; Political Science 201, 307; Economics 241; Sociology 200; Psychology 201; Office Administration 425; Management 318, 320; and Marketing 340, 341, 440 and 442.

**Broadcast Journalism**

Journalism 101, 201, 240, 350, 351, 360, 402, 440 (Plus 5 additional Journalism hours from recommended elective list below.); Speech 230, 237-8 and 337-8 (total of 3 hours), 233, 331, 333; Psychology 201, 223, 324; Philosophy - 3 hrs.


**Journalism Public Relations Sequence**

Journalism 101, 201, 202, 300, 301, 330, 335, 360, 381, 440, and one of the following: Journalism 310, 406, 414 or 430.

Recommended electives: Journalism 302. Speech 305, Management 320, Psychology 302, Political Science 307, Office Administration 425 and Political Science 433.

**MATHEMATICS**

The Department of Mathematics offers the B.S. degree in the College of Arts and Sciences. The major in mathematics must complete at least 20 hours of course work in mathematics at the 300-400 level.

Transfer students who wish to major in mathematics must complete at least six hours of 300-400 level course work at Marshall University.

The American College Test score in mathematics is utilized for the placement of students whose programs require mathematics above the level of Mathematics 110. Relevant information regarding such placement is included under prerequisites in the “Courses of Instruction” section of this catalog.

A student, enrolled in Marshall, may receive credit for certain courses in mathematics provided he successfully completes the appropriate examination of the College Level Examination Program.
A student, enrolled at Marshall, may request the privilege of taking a special examination on any course offered by the Department of Mathematics provided the course is above the level of Mathematics 120. If the student is successful in the examination, he receives credit and a grade for the course.

MODERN LANGUAGES
French, German, Spanish

A major in one of the modern languages (French, German, or Spanish) consists of thirty semester hours in the same language. Eighteen hours must be in courses numbered above 224, and must include nine hours of courses at the 400 level.

PHILOSOPHY

A minimum of 30 hours is required for a major in philosophy to include 303, 311, 312, 321, 421 or 422.

PHYSICS

The Department of Physics offers adequate work to prepare students for admission into graduate departments of physics as well as into professional schools requiring a background in physics.

The physics major is required to complete Physics 211, 212; 213, 214; 300, 302, 320, 330 and 331 plus 10 semester hours of 300-400 courses, including at least 4 semester hours of advanced laboratory courses. Also the major must complete mathematics courses through Mathematics 335 and satisfy all of the requirements for the B.S. degree.

POLITICAL SCIENCE

The political science curriculum has two objectives: First, to provide a basic understanding of the functioning of government and prepare students for democratic citizenship and second, to give a specialized foundation to those planning to enter law school, government service (foreign service, public administration), teaching, research or politics.

A major in political science must fulfill the general and specific requirements for the A.B. degree and must complete 36 hours in political science, including Political Science 201, 205, and 300. In addition, each major must take (1) at least one course in any four of the six fields into which departmental offerings are divided and (2) at least three courses in any one field.

The fields of the political science curriculum with courses in each are as follows:
American State, Local, and Urban Politics: 202, 301, 376, 381, 461 and 440.
Comparative Politics: 370, 407, 408, 409, 410 and 411.
International Politics: 309, 405, 406, 415, 418, 419 and 421
Political Theory: 425, 426, 427, and 429
Public Administration: 333, 383, 433

Courses which appear in more than one field may not be counted twice.

Recommended electives include economics (especially 241 and 242); History 105 and 106 (for pre-law students), 311, 312, 313; Accounting 215 and 216 (for pre-law students); philosophy; psychology; sociology; Speech 205; and English 408.
PSYCHOLOGY

Psychology majors will choose one of three options in accordance with their objectives with respect to graduate professional study:

Option 1 forms a sequence of required courses to provide an adequate foundation for beginning doctoral study upon graduation. The required courses sequence includes Psychology 201, 223, 302, 311, 323, 324, 340, 406, 417, and 460.

Option 2 requires a minimum of 27 hours in psychology courses, which must include Psychology 201, 223, either 323, or 324, 406 and 408. This program constitutes preparation for masters' level training in clinical psychology or related fields.

Option 3 requires completion of a minimum of 26 hours in psychology courses approved by an adviser in relation to the student's interests and objectives. This program is not intended to prepare an individual for graduate study in psychology.

SOCIOLOGY AND ANTHROPOLOGY

The following sequences are available in the department:

Sociology Major—Nonprofessional Option. Math 125 and Soc. 200, 300, 344, 345, 460 and 18 additional hours on the 300-400 level. For students not planning to do graduate work. (30 hours).

Sociology Major—Preprofessional Option. Math 125 and Soc. 200, 300, 344, 345, 403, 445, plus 12 additional hours on the 300-400 level. For students planning to work toward a higher degree in sociology or planning to enter career positions with the federal government. (30 hours).

Sociology Major—Community Development Option. Math 125 and Soc. 200, 205, 300, 344, 345, 332 or 442, 400, 439, plus 6 additional hours on the 300-400 level. For students planning to go into community planning and development or social action programs. (30 hours).

Sociology Major—Preprofessional Social Work Option. Math 125 Sociology 200, 205, 300, 316, 317, 318, 319, 344 and 446. (30 hours).

Sociology Minor. Twelve hours of sociology.

Anthropology Minor. Twelve hours of anthropology.

SPEECH

The Department of Speech provides courses and laboratory work in public address, radio and television, speech pathology and audiology, theatre, and interpretation leading to the A.B. degree. The department's work is augmented by the forensics program, Speech and Hearing Clinic, University Theatre, the Summer Theatre, and radio station WMUL.

General speech majors are required to have courses 103, 202, 205, 210, 230, 240, 306, 312, 313, 320, 439, and one of the following: 233, 403, 418.

Theatre

Majors in speech with an emphasis in theatre are required to have Speech 103, 209, 210, 227, 228, 240, 312-313, 320, 403, 405 or 447, 446 and one of the following: 321, 440, 445, 448. It is recommended that these students take, at least, two courses in dramatic literature and six hours from the following: Art 101 (for those interested in scene design), Art 112, Music 175, Music 196 a, b, c, d (applied voice), Physical Education 160 and 305, Speech 327, and 328.

Broadcasting

Majors in broadcasting are required to complete Speech 103, 230, 233, 330, 432, 435, 436 and 437. The student is required to meet with his advisor
prior to registration each semester so that his minor field and other courses he
selects to complete the requirements in his major field can be approved. It is
recommended that the major enroll in Speech 230 in the second semester of his
freshman year.

Speech Pathology and Audiology

Majors are required to take the following courses in the department:
Required courses outside the Speech Department are: Psychology 201, 311, 340
and English 475.

ZOOLOGY

The courses in zoology are intended to meet the needs of students who
want some knowledge of zoology as part of their general education, those who
need work in zoology to satisfy the requirements in other departments, and
those who propose to specialize in zoology. A major in zoology serves those who
plan to enter medicine, dentistry, veterinary medicine, game management,
fisheries biology, entomology, or other related fields. Zoology majors may
pursue advanced degrees leading to teaching or research in applied zoology.
Zoology majors must meet the College of Arts and Sciences requirements
for the B.S. degree in addition to the following:
Biological Science 201 and 202 ........................................ 8 hrs.
Chemistry 211, 212, 213, 214 ........................................... 8 hrs.
Geology 200 and 210L ...................................................... 4 hrs.
Physics 201, 202, 203, and 204 ......................................... 8 hrs.
Zoology 212 and 301 or 302 ............................................. 8 hrs.
Zoology electives (May include Biological Science 404,
407 and 413) .............................................................. 14 hrs.
Mathematics 120 and 122 or 130 and 131 ......................... 6-8 hrs.
Recommended electives:
Botany 415 and 416
Chemistry 327 and 361
Geology 418, Philosophy 304 and/or English 408
The College of Arts and Sciences science requirement will be met by
completing the basic science requirements above.

COMBINED COLLEGE AND PROFESSIONAL DEGREES

A student wishing to study medicine, dentistry or law at a professional
school may be granted a leave of absence during his senior year at Marshall
University. To secure this leave of absence the student must file a written
request in the office of the dean immediately after gaining admission to the
professional school and before the termination of his course work at Marshall
University. Failure to discharge this responsibility voids candidacy for the degree
under this program. At the end of the first year in the professional school the
student then is eligible for the baccalaureate degree from Marshall University,
provided that all requirements for graduation are met except the completion of a
major, and that the student can present certification from the professional
school that he has successfully completed the first year at the professional
school and that a sufficient number of semester hours of good quality work has
been completed to total 128 when added to those earned at Marshall University.
At least 96 hours (100 for pre-law) of study must have been completed
and a quality point average of 2.0 earned by the student at Marshall University.
Candidates for the degree must attend the regular Marshall University
commencement, or have permission to graduate “in absentia.”
PRELAW EDUCATION

Students who plan to prepare for law school may select a major in any discipline that fulfills the general and specific requirements for a baccalaureate degree at Marshall. In developing a prelaw program, the student should be aware of the recommendation of the Association of American Law Schools, which describes the basic skills and insights it believes fundamental to the later attainment of legal competence. These are (a) comprehension and expression in words, (b) critical understanding of human institutions and values with which the law deals; and (c) creative power in thinking. In order to develop these capacities, the Association recommends a prelegal education of "the broadest scope". To accomplish these goals the College of Arts and Sciences offers a wide range of prelaw courses. Although political science and business are frequently selected by prelaw students as their major, economics, history, sociology, and others are sometimes selected. Regardless of the area of concentration, the prelaw student should be zealous in the selection of electives that will facilitate critical understanding of economic, political and social institutions. Since a lawyer must be able to communicate effectively, the prelaw student is well-advised to lay special emphasis on communicative skills. Also a knowledge of elementary accounting is desirable and highly recommended.

Finally, the prelaw student should remember that the quality of undergraduate instruction is more important than the subject matter area. The Association of American Law Schools recommends the selection of courses which require the greatest preparation and intellectual discipline. "The best trained applicant for law school," states the Association, "is the student who has studied under teachers who have inspired, challenged, and pressed him."

All candidates for law school are urged to apply for admission and register for the October or December administrations of the Law School Admission Test. This should be done during the fall of their senior year in college. The Law School Admission Test is explained fully in the Law School Admission Bulletin which is available in the political science department at Marshall. Additional information and helpful advice may be secured from designated prelaw advisors in The Department of Political Science of the College of Arts and Sciences and the Department of Finance of the College of Business and Applied Science.

PREPARATORY FOR MEDICINE

Students who expect to engage in premedical or related work should include in their high school subjects: one and one-half units of algebra, one unit of geometry, one unit of chemistry and one unit of physics.

The minimum requirements for medicine are:

- English ......................................................... 6 hrs.
- Chemistry 211, 213 and 212, 214 ................................ 8 hrs.
- Chemistry 355 and 356 ...................................... 8 hrs.
- Biological Science 201 and 202 ............................... 8 hrs.
- Physics 201, 202 and 203, 204* .............................. 8 hrs.
- Social Sciences ............................................... 6 hrs.

These courses should be completed by the end of the second year and no later than the end of the junior year. The junior and senior year must include the courses needed to meet degree requirements and department major requirement.

The present trend among schools of medicine is to recommend against intensive training in the natural sciences. Instead they prefer that the candidate

*Note Mathematics prerequisite.
have a broader training with more attention being given to the liberal arts courses.

The tendency among medical colleges is to require four years of premedical preparation, and preference is given to applicants having such preparation. Students should plan undergraduate work toward securing the A.B. or B.S. degree. Premedicine is not a major; therefore the student must select a major field. The curriculum serves as a guide and may be varied to suit individual needs. Certain schools of medicine require specific courses in addition to those listed above. Such courses are best taken as electives during the third or fourth year.

In order to secure a favorable recommendation to a medical or dental college the student must have a scholastic average of 2.5. There are many more candidates for admission to medical schools than can be accepted and, other things being equal, those students with the highest scholastic standing are given preference.

The current trend among schools of medicine is for a scholastic average of 3.0 and better. If the student wishes to be accepted at several medical schools and thus becomes able to choose between schools, a scholastic average of around 3.5 is necessary.

DENTISTRY

Students preparing to enter dental college should take the same minimum requirements as outlined under medicine. Current trends are that 50% of the dental college admissions have their degree and 50% three years of college. A few exceptionally brilliant students can gain admission after two years.

RELATED PROFESSIONAL SCHOOLS

A student preparing to enter pharmacy, osteopathy, physical therapy, veterinary, optometry, or any related professional school should take a program similar to that suggested for medicine. However, the amount of work required for admission is variable, so a student should consult with the school he plans to attend, or the premedical advisor, to determine the exact minimum requirements for admission.
College of Business
& Applied Science

The academic programs in the College of Business and Applied Sciences provide foundations for careers in several professional fields of endeavor. An undergraduate student in this College, whether pursuing an Associate or a Baccalaureate degree, is required to complete a carefully developed, well-rounded curriculum that will include background or general education courses in the liberal arts and sciences, followed by or concurrent with a core curriculum of professional training courses. In programs leading to a baccalaureate degree, these two elements will be supplemented by courses of specialization in the student's major field.

DEGREE PROGRAMS

The College of Business and Applied Science offers the following degrees:

1. Associate in Science Degree
   a. Accounting
   b. Cytotechnology
   c. Nursing
   d. Retailing
   e. Secretarial studies

2. Bachelor of Business Administration Degree
   a. Accounting
   b. Finance
   c. Management
   d. Marketing
   e. Office Administration

3. Bachelor of Science Degree
   a. Civil Engineering (to be terminated in 1975)
   b. Cytotechnology
   c. Medical Technology

4. Bachelor of Engineering Science Degree (to be terminated in 1975)

5. Master of Business Administration
   A complete description of the MBA program is given in the catalog of the Graduate School.

6. The Department of Military Science offers courses leading to a commission in the United States Army, contingent upon graduation from the University.

ORGANIZATION

The undergraduate programs of the College of Business and Applied Science are organized into nine departments. Requirements for degrees are shown below under the appropriate department and in the following order:

Applied Science departments:
1. Cytotechnology/Medical Technology
2. Engineering
3. Nursing
4. Military Science

Business departments:
1. Accounting
2. Finance and Business Law
3. Management
4. Marketing
5. Office Administration
Candidates for all degrees must meet the specific requirements set forth for their curriculum as listed below by department, and:

I. Candidates for the B.B.A. degree must earn a minimum of 128 semester hours: 54 hours in the General Core area, 27 hours in the Business Core area.

CYTOTECHNOLOGY/MEDICAL TECHNOLOGY

Specific Requirements

CYTOTECHNOLOGY

Bachelor of Science in Cytotechnology and Associate in Science in Cytotechnology

The following curriculum meets the needs of those people preparing for positions as Cytotechnologists in hospitals, clinics, and private physicians' laboratories. The work of the senior year (twelve months) is given at the Cabell Huntington Hospital in cooperation with Marshall University. The School of Cytotechnology at Cabell Huntington Hospital is accredited by the American Society of Clinical Pathologists to give such training. Upon successful completion of the four year curriculum, the student is granted the degree Bachelor of Science in Cytotechnology.

In some instances, when vacancies exist, a student may be admitted to the clinical work at Cabell Huntington Hospital after completing two academic years with a minimum of 60 semester hours in the courses specified in the curriculum below. Students successfully completing the first two years of the academic curriculum plus the twelve month clinical program, may elect to receive the Associate in Science degree.

Other Requirements

Successful completion of the academic program does not automatically assure admission to the clinical studies. The present maximum class size is four students. Students wishing to be considered for the clinical year beginning in early September must make application on forms obtainable from the Director of Medical Technology. Such application is made in April and acceptance will be made in June. No applications will be accepted after June 1. All academic requirements must have been completed not later than the semester of making application. All students must have a "C" or better average on all college work attempted to be eligible for admission.

Admission is on recommendation of the Committee on Medical Technology and with the approval of the dean of the College of Business and Applied Science. Recommendation by the Admissions Committee will be based on an interview examination. Priority will be given to B.S. degree candidates. In addition, each student must be acceptable to the Registry of Medical Technologists (ASCP).

Completion of the curriculum as outlined below leads to the degree of Bachelor of Science in Cytotechnology.
### First Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
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<tbody>
<tr>
<td>Chemistry 211-213</td>
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<td>4</td>
</tr>
<tr>
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<td><strong>Total</strong></td>
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### Second Year

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<td>Physics 201-202</td>
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</tr>
<tr>
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### Third Year

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<td>Chemistry 300-301</td>
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<td>Chemistry 231</td>
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<td>Botany 302</td>
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<td>Zoology 424</td>
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<td>Electives</td>
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### Fourth Year

<table>
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<td>Cytotechnology 433</td>
<td>6</td>
</tr>
<tr>
<td>Cytotechnology 432</td>
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### Summer Session

<table>
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<tr>
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<th>Hrs.</th>
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<td>Cytotechnology 435</td>
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<td>Cytotechnology 437</td>
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<td><strong>Total</strong></td>
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</tr>
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</table>

One hundred and twenty-eight semester hours are required for the B.S. in Cytotechnology.

Suggested Electives:
- Office Administration ........................................ 4 hrs.
- Psychology 418 ........................................ 3 hrs.
MEDICAL TECHNOLOGY

B.S. in Medical Technology Degree

The curriculum in medical technology leads to the B.S. in Medical Technology degree. This curriculum prepares students for positions as medical technologists in hospitals, clinics, and private physicians' laboratories.

Training standards for medical technologists are under the general supervision of the Council on Medical Education and Board of Schools of the American Society of Clinical Pathologists, which inspects, evaluates, and approves schools. The Cabell Huntington Hospital school is so approved. Upon completion of B.S. degree requirements in Medical Technology, students are eligible to take the Medical Technology national examinations. Passing this examination leads to certification by the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists.

Two years of academic work may be transferred from other institutions but a minimum of 30 semester hours in required courses must be earned at Marshall University. Students wishing to transfer clinical work for degree purposes may not do so without successfully passing an examination given by the clinical staff. Clinical work completed as part of a non-degree program will not be accepted and must be repeated.

The work of the fourth year is largely clinical in nature. Students take the practical and didactic work Mondays through Fridays, 7:00 a.m. to 3:30 p.m. (National holidays excepted). They are subject to the usual regulations and discipline of the regular laboratory staff. The instructional staff holds academic rank in the university. The twelve month clinical work begins in September and ends the following year in September.

Admission to Fourth Year (Clinical Studies)

Admission to the fourth year clinical studies requires completion of a minimum of 91 academic credit hours to include the following required courses:

Chemistry: 20 semester hours - (1) one year general chemistry; (2) quantitative analysis; (3) organic chemistry and (4) biochemistry.

Biological Sciences: 16 semester hours to include one year general biology, histology and bacteriology.

Mathematics: 6 semester hours to include college algebra and plane trigonometry.

Physics: 8 semester hours. One year general physics.

Electives: 41 semester hours. Electives, as for any professional career, are chosen to provide a broad education. The student is free to choose courses in arts, humanities including English, social sciences, or additional courses in the natural sciences.

Completion of the three-year academic program outlined above does not of itself assure admission to the fourth year clinical curriculum. Students wishing to be considered for clinical training should make application upon forms obtainable from the Director of Medical Technology. Written application should be made in April of the third year. No application will be accepted unless the student will be completing all academic requirements by the end of the semester in which application is made. No application will be accepted after June 1 for the September class. All students making application must have a “C” or better average on all college work attempted.

A maximum of twelve students will be selected for each September class. Admission is on recommendation of the Committee on Medical Technology and with the approval of the Dean. Selection will be made on the basis of an individual interview examination by the Admissions Committee. Marshall B.S. degree candidates will be considered before post-graduate and transfer applicants who meet the residency requirements specified above. Preference will be given to
residents of West Virginia. Each student must be acceptable to the Registry of Medical Technologists (ASCP).

Curriculum in Medical Technology

<table>
<thead>
<tr>
<th>Year</th>
<th>Hrs.</th>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
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<td>First Year</td>
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<td>3</td>
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Curriculum in Medical Technology

<table>
<thead>
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Curriculum in Medical Technology

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<td>Botany 302</td>
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</tbody>
</table>

Suggested Electives: Foreign Language, typewriting, English literature, economics, history, sociology, psychology

Curriculum in Medical Technology

<table>
<thead>
<tr>
<th>Year</th>
<th>Hrs.</th>
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<th>Hrs.</th>
<th>Second Semester</th>
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<tbody>
<tr>
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Curriculum in Medical Technology

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Additional electives may be taken in Medical Technology (see course descriptions for Medical Technology 421).
One hundred and twenty-eight semester hours are required for the B.S. in Medical Technology degree.

ENGINEERING

On May 9, 1972 the West Virginia Board of Regents announced its decision to terminate the engineering programs at Marshall University by admitting no freshmen to the programs subsequent to that date, and allowing previously enrolled students to complete their programs by 1975.

Classification of Engineering students

Students who have completed 110 hours of college work are classified as seniors.
Students who have completed 70 hours and less than 110 hours of college work are classified as juniors.
Students who have completed less than 70 hours of college work by May, 1974, will be unable to complete an Engineering major prior to termination in 1975. Such students will not be allowed to declare a major in Engineering.
Candidates for the B.S.C.E. and the B.E.S. degrees must earn a minimum of 147 semester hours for graduation, with selection of electives subject to the approval of the Chairman of the Department of Engineering.
Students who have completed the high school or secondary course and less than 30 hours of college work are classified as freshmen.

Engineering Awards

Huntington Chapter, West Virginia Society of Professional Engineers awards a prize and certificate of award to the student whom they judge to be outstanding in the upper quarter of the junior class.
Ohio Valley Section of The Institute of Electrical and Electronic Engineers, Inc., annually awards a prize and certificate of award to the student whom they judge to be outstanding in the senior class.

Civil Engineering Curriculum

Bachelor of Science in Civil Engineering Degree

<table>
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<tr>
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<td>Civil Engineering 301</td>
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<td>3</td>
<td>Engineering Mechanics 301</td>
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<tr>
<td>General Engineering 301</td>
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General Engineering Curriculum

Bachelor of Engineering Science Degree

Third Year

<table>
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<th>Hrs.</th>
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<td>Mechanical Engineering 301</td>
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<td>Cr.</td>
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<td>Mechanical Engineering 303</td>
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<td>Mechanical Engineering 302</td>
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</tr>
<tr>
<td>Philosophy 304</td>
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Fourth Year

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<tr>
<td>General Engineering 400</td>
<td>2</td>
<td>General Engineering 402</td>
<td>Cr.</td>
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<tr>
<td>General Engineering 401</td>
<td>Cr.</td>
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<td>Mechanical Engineering 401</td>
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<td>Mechanical Engineering 420</td>
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<td>Mechanical Engineering 410</td>
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<tr>
<td>Nontechnical elective</td>
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<tr>
<td>Technical electives*</td>
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MILITARY SCIENCE

U.S. Army Reserve Officers Training Corps

The Reserve Officers Training Corps (ROTC) program was established in September 1951, when the Department of the Army placed an Ordnance Corps unit at Marshall University. In order to increase the opportunities for graduates to receive commissions in all branches and services of the Army, this unit was converted to a general military science unit in September 1954.

The objective of the military science course of instruction is to produce commissioned officers-leaders who by their education, training, and inherent qualities are suitable for continued development as officers in the United States Army. This program provides a basic military education and, in conjunction with other college disciplines, develops the individual’s character and other attributes essential to an officer of the United States Army. The program consists of two

*Approved technical electives: Botany 302, Chemistry 227, CE 300 and 420, GE 480, GE 481, Geology 200, 314, and 426, Mechanical Engineering 410, and any 400 series mathematics course.
parts: The Basic Course and the Advanced Course, each of which extends throughout two academic years with an attendance at a summer training camp included in the Advanced Course.

Military Science is an elective and enrollment in the Basic Course is voluntary. In order to obtain an ROTC draft deferment a Basic Course Student, must execute an "ROTC Deferment Agreement," DA Form 1608. The student must agree to complete the Basic Course; enroll in and complete the Advanced Course, if accepted; and upon completion of the course of instruction, to accept a commission in the United States Army, if tendered. Completion of ROTC instruction becomes a prerequisite for graduation unless the student is relieved of this obligation by the university with the approval of the professor of military science under regulations prescribed by the Department of the Army.

Students must meet the following requirements established by the Department of the Army for enrollment in the ROTC:

1. Applicant must be a citizen of the United States.
2. Applicant must be between 17 and 24 years old.
3. Applicant must be a regularly enrolled student.
4. Applicant must be screened and found acceptable by the Department of Military Science.
5. Applicant must be examined and found physically qualified.
6. Applicants for enrollment who have a record of conviction by any civil court or by any type of military court-martial, for other than a minor traffic violation, are not eligible for enrollment in the ROTC without specific approval of the Department of the Army. Request for such approval must be made through the professor of military science.

In addition to the requirements above for Basic students, Advanced students prior to enlistment must:

1. Be less than 27 years old prior to enrollment in the Advanced Course. Be able to qualify for appointment as an officer prior to reaching 28 years of age.
2. Have completed the Basic Course; or be a veteran with 12 or more months service; or attend a Basic Summer Training Camp between the sophomore and junior years in lieu of the Basic Course if entering the two-year program.
3. Execute a written contract with the government to continue the course of instruction for two years and to attend the ROTC Summer Camp of six weeks' duration, and to accept a commission as a second lieutenant, if offered, and to serve on active duty for a period of two years, if called by the secretary of the army.
4. Be approved by the professor of military science and the president of the University on the basis of previous academic standing and proven qualities of leadership.
5. If a member of the Air Force, Navy, or Coast Guard Reserves, resign from such organization prior to enrollment.

Special Scholarships

One, two, three, or four-year scholarships covering the cost of all university tuition fees, books, and laboratory expenses in all subjects, plus a $100.00 per month allowance are available to qualifying students. For further information, contact the Department of Military Science.

Remuneration

Textbooks and other instructional material required by military science students are furnished without cost to the students. Uniforms, to be worn as prescribed, are issued by the Department of Military Science to all Basic Course
students. Advanced Course students are provided, through the university, an allowance by the Department of the Army to purchase for themselves a complete uniform upon selection to enter the Advanced Course. During the two years the student is enrolled in the Advanced Course, he receives a subsistence allowance from the Department of the Army in the amount of $100.00 per month. Students attending the advanced summer training camp are paid at the rate of one half the pay of a second lieutenant per month. All transportation expenses to and from summer camp are borne by the Department of the Army. Together, these remunerations amount to approximately $2,000.00 for the two years of the advanced course.

Credit

Students in the Basic Course attend classes two hours per week and receive two semester hours credit per semester toward graduation requirements. Students in the Advanced Course attend class three hours per week and receive three semester hours credit per semester. In addition, all military science students normally attend a one hour combined period of leadership and command practice each week. Three semester hours nonresident credit is given for attendance at summer camp. Students who have completed two years of the Basic Course and are unable to continue their college education may be granted a Certificate of Training.

Students who attain a high standard of military and academic achievement during the first year of advanced training may be designated Distinguished Military Students. If such standards are maintained until graduation, they may be designated Distinguished Military Graduates, which permits them to apply for a regular army commission if otherwise qualified.

Two-Year Program

A two-year ROTC program is available to transfer, graduate, and other students who have previously been unable to schedule military science. This program provides the student with all ROTC books and uniforms and a monetary allowance of $100.00 per month. Before starting the two-year program, students are required to complete a six-weeks preparatory summer training camp between their sophomore and junior years. This summer camp is taken in lieu of the Basic Course. The student then participates in the regular Advanced Course during his junior and senior years. Students interested in the two-year program should consult the professor of military science.

Curriculum Notes

1. The Military science curriculum is designed to permit completion of the four-year program simultaneously with receipt of the baccalaureate degree in June of the senior year. For this reason, students must be in phase (i.e., to enroll in MS 101, a student must be a first semester freshman; to enroll in MS 302, a student must be a second semester junior, etc.).

2. The military science curriculum can be pursued in conjunction with any curriculum of the university.

3. Advanced Course students in military science take at least three semester hours per year in an academic field other than military science to replace 45 clock hours of military instruction in their junior and senior year. Students report the title of the academic course selected to the Department of Military Science when requested. Satisfactory completion of these courses with a minimum grade of “C” becomes a prerequisite to receive credit for Military Science 301-302 and Military Science 401-402.

Elective subjects may be chosen from the following general academic areas for utilization in the junior and senior year.
The Department of Nursing offers a program in basic nursing leading to the A.S. in Nursing degree. The purpose of the program is to prepare students for careers as registered nurses. The graduates of this program are eligible to write the state board test pool examinations for registered nurses and to accept beginning positions as registered nurses. The program is approved by the West Virginia State Board of Examiners for Registered Nurses and is accredited by the National League for Nursing.

The primary requirement for admission to the Department of Nursing Education is that the applicant meet the admission requirements of the University. In addition to these requirements, the applicant must have a composite of 19 or higher and a score of 16 or higher in English on the American College Test and be in the upper half of their high school graduating class. Prospective students are advised to take high school courses in biology and chemistry as part of their preparation for work in nursing. These courses, however, are not required for admission to the collegiate nursing program.

Applicants to this department are urged to complete the American College Test in October of their senior year in high school.

Applicants admitted by General Education Development Test must meet the same scores on American College Test as those required of high school graduates.

The Department of Nursing admits students from other Nursing programs. In addition to meeting the admission requirements of the University and Nursing program, the applicant must request placement examinations. The student may challenge the nursing courses. If the challenge is successful, credit will be given for the course. Pre-requisite science courses must be completed.

The majority of the students complete the Nursing Program in two academic years. However, students have the option of accelerating or decelerating the program according to their needs, previous educational experiences and abilities.

There are no specific age limitations for admission to the program as long as all other entrance requirements are met.

Enrollment in the Freshmen Nursing Classes is limited to 64 students. Applicants who are not accepted for admission to the Nursing Program will be notified.

Transfer students from another accredited institution of collegiate grade should have an overall quality point average of 2.5 or higher on all work attempted.

Academic and nursing courses are given on the Marshall campus. The clinical nursing experiences are selected at hospitals and other health agencies by the nursing faculty for their educational value to students. Members of the faculty supervise student clinical practice and conduct patient-centered seminars.

Cooperating health agencies include: Cabell Huntington Hospital, Cabell Huntington Health Department, Huntington State Hospital, Huntington Hospital, Inc., St. Mary's Hospital, kindergartens, nursery schools and rehabilitation centers and other agencies. Students are responsible for their own transportation to and from the health agencies.

Students receive the major portion of their clinical experiences in the Cabell Huntington Hospital, which is fully accredited by the Joint Commission on Accreditation of Hospitals and is a member of the American Hospital
Association and the West Virginia Hospital Association. It is approved by the Council on Medical Education of the American Medical Association for internships in Medicine, Surgery, Obstetrics and Pediatrics by the American Specialty Boards for residence in pathology, general surgery, international medicine and general practice.

Information about ordering uniforms and liability insurance is sent to applicants after they have been accepted into the nursing program. The cost of the uniforms is approximately $60.00, excluding the cost of shoes, hose, scissors and watch. Professional liability insurance coverage is available and recommended.

Field Trips: Required field trips to various health agencies are made each semester. Nursing students must be prepared to pay from $5.00 to $15.00 each semester for their own expenses for these experiences.

### Curriculum

#### First Year

<table>
<thead>
<tr>
<th>First Semester</th>
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<td>Home Economics 210</td>
<td>3</td>
<td>Chemistry 100</td>
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<tr>
<td>Zoology 225</td>
<td>4</td>
<td>Psychology 201</td>
<td>3</td>
</tr>
<tr>
<td>Nursing 101</td>
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<td>Nursing 102</td>
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#### Second Year

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<td>Nursing 214</td>
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<td>Nursing 220</td>
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<td>Psychology 311</td>
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<td>Botany 302</td>
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### BUSINESS ADMINISTRATION

**Four Year Curriculum: Bachelor of Business Administration**

Each of the five "Business" departments in the College of Business and Applied Science offers a major field of study or area of concentration within the common four-year curriculum leading to the degree of Bachelor of Business Administration: Accounting, Finance, Management, Marketing, and Office Administration.

Candidates for the BBA must earn a minimum of 128 semester hours, distributed among four broad and basic groups or blocks of the degree program: (1) at least 54 semester hours selected from a set of General Core courses designed by the faculty, but permitting student selectivity, to insure the student's fundamental acquaintance with the Arts, Sciences, Humanities, Mathematics, American Institutions and International Institutions; (2) 27 semester hours of Business Core courses designed by the faculty to provide a common body of prerequisite knowledge in business and administration for all BBA majors; (3) courses to complete one of the five major fields of study: Accounting, Finance, Management, Marketing, or Office Administration; and (4) electives to complete the student’s program.
# GENERAL CORE COURSES

*Required

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<td>English I02 *</td>
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<td>Bible and Religion 300</td>
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<td>Political Science 303</td>
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This requirement may be met by 2 or 3 hours in university approved courses in Applied Music.

**Mathematics:**

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<tr>
<td>or any 2 courses above this level.</td>
<td></td>
</tr>
</tbody>
</table>

**Behavioral Sciences:** (Both required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology 201</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 200 or Social Studies 201</td>
<td>3</td>
</tr>
</tbody>
</table>

**Natural Sciences:**

(Any 2 of the following courses may be taken as a 2-course sequence, or by taking the beginning course in two of the areas listed.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Science 201</td>
<td>4</td>
</tr>
<tr>
<td>Biological Science 202</td>
<td>4</td>
</tr>
<tr>
<td>Botany 302</td>
<td>4</td>
</tr>
<tr>
<td>Geology 201</td>
<td>3-4</td>
</tr>
<tr>
<td>Geology 314</td>
<td>4</td>
</tr>
<tr>
<td>Geology 424</td>
<td>4</td>
</tr>
</tbody>
</table>
Botany 305 .......................... 3  Geology 451 .......................... 3  
Botany 415 .......................... 4  Physics 200 .......................... 4  
Botany 418 .......................... 4  Physics 201 .......................... 4  
Chemistry 203 ........................ 4  Physics 202 .......................... 4  
Chemistry 204 ........................ 4  Physics 400 .......................... 3  
Geology 200 .......................... 3-4 Physical Science 109 & 110 ....... 4  

Students may take courses in Physical Education and R.O.T.C. but they are not required for graduation.

**BUSINESS CORE COURSES**

Accounting 215 ........................ 3  Management 320 ..................... 3  
Accounting 216 ........................ 3  Economics 241 .................... 3  
Marketing 340 ........................ 3  Economics 242 .................... 3  
Finance 323 .......................... 3  Finance 307 ....................... 3  
Management 318 ........................ 3  

Suggested programs of study for each of the five majors, and for each of the four years normally spent in the BBA curriculum, are shown below.

**First Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101</td>
<td>3</td>
<td>English 102</td>
<td>3</td>
</tr>
<tr>
<td>Science elective</td>
<td>4</td>
<td>Science elective</td>
<td>4</td>
</tr>
<tr>
<td>Speech 103</td>
<td>3</td>
<td>Mathematics 190*</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics 120*</td>
<td>3</td>
<td>Fine arts elective</td>
<td>2-3</td>
</tr>
<tr>
<td>International inst. elective</td>
<td>3</td>
<td>Speech 207</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
<td><strong>Total</strong></td>
<td>17-18</td>
</tr>
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</table>

**Second Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting 215</td>
<td>3</td>
<td>Accounting 216</td>
<td>3</td>
</tr>
<tr>
<td>Economics 241</td>
<td>3</td>
<td>Economics 242</td>
<td>3</td>
</tr>
<tr>
<td>Management 320</td>
<td>3</td>
<td>Behavioral science elective</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral science elective</td>
<td>3</td>
<td>Marketing 340</td>
<td>3</td>
</tr>
<tr>
<td>Humanities elective</td>
<td>3</td>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>American inst. elective</td>
<td>3</td>
<td><strong>Total</strong></td>
<td>18</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>18</td>
<td><strong>Total</strong></td>
<td>18</td>
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**ACCOUNTING**

**Third Year**

<table>
<thead>
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<th>Second Semester</th>
<th>Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Accounting 311</td>
<td>3</td>
<td>Accounting 312</td>
<td>3</td>
</tr>
<tr>
<td>Finance 323</td>
<td>3</td>
<td>Management 318</td>
<td>3</td>
</tr>
<tr>
<td>Finance 307</td>
<td>3</td>
<td>Finance 308</td>
<td>3</td>
</tr>
</tbody>
</table>

*Mathematics sequence may be taken sophomore year rather than freshman year.*
### COLLEGE OF BUSINESS AND APPLIED SCIENCE

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Accounting elective*</td>
<td>3</td>
</tr>
<tr>
<td>Humanities elective</td>
<td>3</td>
</tr>
<tr>
<td>American inst. elective</td>
<td>3</td>
</tr>
<tr>
<td>Accounting 348</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
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**Fourth Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting 347</td>
<td>3</td>
</tr>
<tr>
<td>Accounting 414</td>
<td>3</td>
</tr>
<tr>
<td>Accounting elective*</td>
<td>3</td>
</tr>
<tr>
<td>Intern. inst. elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
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<td></td>
<td>15</td>
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</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting 413</td>
<td>3</td>
</tr>
<tr>
<td>Management 424</td>
<td>3</td>
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<tr>
<td>Electives</td>
<td>9</td>
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<tr>
<td></td>
<td>15</td>
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</tbody>
</table>

### FINANCE AND BUSINESS LAW

**Third Year**

<table>
<thead>
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<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finance 323</td>
<td>3</td>
</tr>
<tr>
<td>Finance 307</td>
<td>3</td>
</tr>
<tr>
<td>Humanities elective</td>
<td>3</td>
</tr>
<tr>
<td>American inst. elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective**</td>
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<tr>
<td></td>
<td>15</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management 318</td>
<td>3</td>
</tr>
<tr>
<td>Finance 324</td>
<td>3</td>
</tr>
<tr>
<td>Inter. inst. elective</td>
<td>3</td>
</tr>
<tr>
<td>Finance 308</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
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</tbody>
</table>

### MANAGEMENT

**Third Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finance 323</td>
<td>3</td>
</tr>
<tr>
<td>Finance 307</td>
<td>3</td>
</tr>
<tr>
<td>Management 318</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management electives**</td>
<td>6</td>
</tr>
<tr>
<td>Inter. inst. elective</td>
<td>3</td>
</tr>
<tr>
<td>Amer. inst. elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

---

*Accounting electives: (any two of the following): Economics 310, Economics 326, Economics 430, Finance 329, Finance 335, Finance 434.

**Finance electives: Finance majors must select three of the following courses: Accounting 348, Economics 310, Economics 326, Office Administration 425, Finance 327, 329, and 335.

***Management electives: Management majors must select from the following courses. Accounting 418, Economics 326, Economics 430, Finance 324, Finance 308, Office Administration 421, Office Administration 425.
<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management 418</td>
<td>3</td>
<td>Management 422</td>
<td>3</td>
</tr>
<tr>
<td>Management 420</td>
<td>3</td>
<td>Management 426</td>
<td>3</td>
</tr>
<tr>
<td>Management 424</td>
<td>3</td>
<td>Management 460</td>
<td>3</td>
</tr>
<tr>
<td>Management elective*</td>
<td>3</td>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>15</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

### Fourth Year

**MARKETING**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management 422</td>
<td>3</td>
<td>Management 424</td>
<td>3</td>
</tr>
<tr>
<td>Management 426</td>
<td>3</td>
<td>Management 460</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>15</strong></td>
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</table>

### Third Year

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finance 307</td>
<td>3</td>
<td>Finance 327</td>
<td>3</td>
</tr>
<tr>
<td>Management 318</td>
<td>3</td>
<td>Finance 323</td>
<td>3</td>
</tr>
<tr>
<td>Inter. inst. elective</td>
<td>3</td>
<td>Marketing 350</td>
<td>3</td>
</tr>
<tr>
<td>Humanities elective</td>
<td>3</td>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>American inst. elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>15</strong></td>
<td>15</td>
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</tbody>
</table>

### Fourth Year

**OFFICE ADMINISTRATION**

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101</td>
<td>3</td>
<td>English 102</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 120***</td>
<td>3</td>
<td>Mathematics 190***</td>
<td>5</td>
</tr>
</tbody>
</table>

---

*Management electives: Management majors must select from the following courses. Accounting 418, Economics 326, Economics 430, Finance 324, Finance 308, Office Administration 421, Office Administration 425.

**If the student has had one year of either typewriting or shorthand in high school and does not have the competencies to succeed in OAD 104 typewriting or OAD 202 shorthand, he will be required to take OAD 103 and OAD 201. Credit earned in these courses cannot be counted toward graduation or teacher certification by students majoring in office administration or business education.

***Mathematics sequence may be taken sophomore year rather than freshman year.
### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Administration 104*</td>
<td>2</td>
</tr>
<tr>
<td>Science elective</td>
<td>4</td>
</tr>
<tr>
<td>Speech 103</td>
<td>3</td>
</tr>
<tr>
<td>Office Administration 105</td>
<td>2</td>
</tr>
<tr>
<td>Fine arts elective</td>
<td>2-3</td>
</tr>
<tr>
<td>Science elective</td>
<td>4</td>
</tr>
<tr>
<td>Office Administration 105</td>
<td>2</td>
</tr>
<tr>
<td>Fine arts elective</td>
<td>2-3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>First Year</strong></td>
<td><strong>16-17</strong></td>
</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Administration 202*</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral science elective</td>
<td>3</td>
</tr>
<tr>
<td>Economics 241</td>
<td>3</td>
</tr>
<tr>
<td>Accounting 215</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Administration 305</td>
<td>3</td>
</tr>
<tr>
<td>Finance 307</td>
<td>3</td>
</tr>
<tr>
<td>American inst. elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities elective</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

### Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finance 323</td>
<td>3</td>
</tr>
<tr>
<td>Marketing 340</td>
<td>3</td>
</tr>
<tr>
<td>Office Administration 421</td>
<td>3</td>
</tr>
<tr>
<td>Office Administration 425</td>
<td>3</td>
</tr>
<tr>
<td>Inter. inst. elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

### BUSINESS ADMINISTRATION

**Two-Year Curriculum: Associate in Science**

For those who may not be able or may not wish to complete four years of college work, a number of two year special curriculums have been organized. These programs of study serve three important purposes: (1) they enable a student to prepare directly for a vocation or employment; (2) they permit the student the satisfaction of completing coherent program of study and obtaining a certificate of accomplishment while preparing for employment; and (3) they enable a student who may wish to continue college work later on to make up his mind while pursuing an organized program rather than rambling without aim through the University’s course offerings.

---

*If a student has not had one year of typewriting in high school he must take OAD 103 before enrolling in OAD 104.*
Upon completion of any of the following three study programs, the student may be granted the degree of Associate in Science. These programs are designed to be terminal in nature, and to prepare the student for immediate employment. However, the student who has completed one of these Associate in Science degrees and later wishes to resume studies with a new degree objective of BBA will find that most of the course work can be included in the study program for completing a BBA.

**ACCOUNTING**

<table>
<thead>
<tr>
<th>First Year</th>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>English 101</td>
<td>3</td>
<td>English 102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Speech 103</td>
<td>3</td>
<td>Math 120</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Accounting 215</td>
<td>3</td>
<td>Accounting 216</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Economics 241</td>
<td>3</td>
<td>Economics 242</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>4</td>
<td>Electives</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>16</strong></td>
<td></td>
<td><strong>16</strong></td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Second Year</th>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Accounting 311</td>
<td>3</td>
<td>Accounting 312</td>
<td>3</td>
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<tr>
<td></td>
<td>Accounting 347</td>
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<td>Accounting 348</td>
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<td></td>
<td>Business electives</td>
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<td>Business electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>4</td>
<td>Electives</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>16</strong></td>
<td></td>
<td><strong>16</strong></td>
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</tbody>
</table>

Business electives include any courses in Office Administration, Finance, Marketing, or Management at the student’s discretion provided prerequisites are met.

**RETAILING**

<table>
<thead>
<tr>
<th>First Year</th>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
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<tbody>
<tr>
<td></td>
<td>English 101</td>
<td>3</td>
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<td></td>
<td>Mathematics 120</td>
<td>3</td>
<td>Speech 103</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Economics 241</td>
<td>3</td>
<td>Economics 242</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Art 216</td>
<td>3</td>
<td>Prin. of Selling 231</td>
<td>3</td>
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<td></td>
<td>Electives</td>
<td>5</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>17</strong></td>
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<table>
<thead>
<tr>
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<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Marketing 340</td>
<td>3</td>
<td>Advertising 341</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Accounting 215</td>
<td>3</td>
<td>Accounting 216</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Finance 307</td>
<td>3</td>
<td>Retail Management 344</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Prin. of Retailing 343</td>
<td>3</td>
<td>Business elective</td>
<td>3</td>
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<tr>
<td></td>
<td>Business elective</td>
<td>6</td>
<td>Elective</td>
<td>3</td>
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<td></td>
<td><strong>18</strong></td>
<td></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

Total hours must equal or exceed ................................... **64**
Business electives should be taken from Marketing, Management, Finance or Office Administration. Students are encouraged to take other electives from areas outside the College of Business and Applied Science.

SECRETARIAL SCIENCE

First Year*

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101</td>
<td>3</td>
<td>English 102</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 120</td>
<td>3</td>
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<td>Accounting 216</td>
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Second Year

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</table>

Total hours required for degree .................................... 64

*If the student has had one year of either typewriting or shorthand in high school and does not have the competencies to succeed in OAD 104 typewriting or OAD 202 shorthand, he will be required to take OAD 103 and OAD 201. Credit earned in these courses cannot be counted toward graduation or teacher certification by students majoring in office administration or business education.

**If a student has not had one year of typewriting in high school he must take OAD 103 before enrolling in OAD 104.

***If the student has not completed one year of shorthand in high school, he must take OAD 201 before taking OAD 202.
The purpose of the College of Education is to function as the means for the preparation of teachers and school service personnel. This preparation is accomplished through meaningful curricula planning and faculty organization.

COLLEGE OF EDUCATION STUDENTS

Those students who desire to become teachers in kindergarten, elementary, and secondary schools or at the college level, and who are confident that they can attain the standards of academic and professional competency required, enroll in the College of Education. A faculty adviser and the representatives of the academic dean's office direct the student in the program of his choice throughout his college life. Students who are enrolled in another college or school of the university may enroll for three (3) semester hours in the field of professional education if they desire. These students are limited to enrollment in Educational Foundations 218, Human Development.

TEACHERS INSERVICE CREDIT

Six (6) hours per semester, or a total of twelve (12) semester hours during any school year, is the maximum credit allowed for courses completed by inservice teachers. Teachers who intend to earn credit while inservice should first confer with their superintendents or school personnel officers.

CREDIT FOR COURSES OFFERED EXTERNALLY

Credits earned through correspondence, extension, military service, radio, television, and special examinations are accepted up to a maximum of twenty-eight semester hours. Courses are accepted only if such courses are offered by institutions of higher education which are accredited by a regional accreditation association of secondary schools and colleges and the National Council for Accreditation of Teacher Education. Enrollment for any such credit should be approved through the Dean's office prior to enrollment.

PRE-STUDENT TEACHING LABORATORY EXPERIENCES

All College of Education students participate in experiences which permit them to observe children or youth in activities which are examples of the teaching/learning process. These experiences are provided by the public schools of the area as well as by non-school agencies. Students who enroll for these activities must meet the standards of dress and conduct which apply to teachers in the school or staff in the agency to which they are assigned.

Students who receive transfer credit for courses which are co-requisite to the pre-student teaching activities are required to complete the activities as non-credit assignments.

The first of these activities accompanies Educational Foundations 218, Human Development, and consists of assigned experiences in a non-school community agency. The specific assignment, the nature of the experiences and the length of the experiences are determined by the faculty. The successful completion of these experiences is required for a passing grade in Educational Foundations 218. The second required laboratory assignment for all students is associated with Educational Foundations 319, Human Development. The specific assignment, the nature of the experiences and the length of the experiences are determined by the faculty. The third required laboratory experience for all students is associated with the "Methods" course for
secondary students and Curriculum and Instruction 443 for elementary students. An exception to this is made in the case of majors in music, vocational home economics, and speech and hearing therapy. Students in these areas will complete this experience with their Educational Foundations 319 course. The successful completion of the experiences is required for a passing grade in Educational Foundations 319. A student must have attained junior standing (58 hours) and have a 2.0 average to enroll for Educational Foundations 319.

ADMISSION TO TEACHER EDUCATION

During the course of enrollment for Educational Foundations 319 each student will be asked to submit an Application for Admission to Teacher Education and Graduation. During the semester the application is submitted the student will be evaluated for admission to Teacher Education, and following the completion of Educational Foundations 319 will be notified whether or not he is admitted to Teacher Education.

To be eligible for admission to Teacher Education, a student must have achieved the following:
1. Enrollment in the College of Education.
2. Fifty-eight (58) semester hours.
3. A 2.0 grade point average overall, in professional education and each teaching specialization.
4. A grade of "C" or better in English 102, or successful completion of the English Qualifying Examination.
5. Successful completion of Educational Foundations 218 and 319.
7. A valid tuberculosis test.
8. Recommendation by advisor.
9. Recommendation by program representative.

STUDENT TEACHING

An applicant for a professional certificate, who is to be recommended to his state department of education, must complete student teaching at Marshall University. Students with three years of public school teaching experience at the level and in the subject specialization for which certification is desired may apply for student teaching during the summer. A statement verifying the experience must be filed prior to the approval of the application. Student teaching during the summer is limited to a few students. Students desiring to enroll for student teaching during the summer should check with the Director of Student Clinical Experiences to verify the opportunities available prior to finalizing their plans.

A student may not enroll for more than one course other than those included in the student teaching block during the semester in which student teaching is included in his schedule of classes. Any class scheduled during the student teaching period must meet after 4:00 p.m.

Students are assigned to public schools which agree to provide the student teaching experiences for Marshall University. Since the supply of supervising teachers is limited, and the College of Education has a large supply of teacher candidates, it is necessary that students be assigned to selected schools away from campus. Students are advised not to commit themselves to selected schools away from campus. Students are advised not to seek housing in areas which are beyond commuting distance. In all cases the assignment responsibility rests with the Director of Student Clinical Experiences with the approval of the public school administration in the school in which the student is to be placed. Students who are assigned a student teaching position but who do not complete the assignment may not be assured of a future assignment.
Admission to student teaching at Marshall University requires the following:

1. Applications must be completed by mid-term of the semester previous to enrolling for this experience. The deadline date for enrollment in student teaching will be posted outside the dean's office. Students must file in the office of the Director of Student Clinical Experiences an application for permission to enroll for each course in student teaching.

An application for permission to enroll for student teaching during the summer must be filed in the office of the Director of Student Clinical Experiences twelve (12) weeks prior to the beginning of the summer session.

2. Student teaching is preceded by an orientation period which includes large group meetings and seminars. Orientation periods are scheduled twice each year. Students who have not successfully completed the orientation period will not be admitted to student teaching. When the student makes application for student teaching, information concerning the dates of the orientation periods will be provided.

3. A quality point average of 2.0 (C) in all courses attempted; in all courses in the teaching specializations; and in all courses in professional education. Courses formerly listed in education and those presently listed in educational foundations, curriculum and instruction, counseling and rehabilitation, educational media and vocational-technical education are included in professional education.

It will be the student's responsibility to insure that the above grade averages have been met prior to entering student teaching. Any student who enters teaching without the above grade averages will be withdrawn by administrative action.

4. The completion of approximately three-fourths (3/4) of the course work in the teaching specializations and teaching methods in the primary subject specialization. (Elementary education students must have completed Curriculum and Instruction 443, Teaching Reading in Elementary Schools.)

NOTE: Students who are members of varsity teams may not participate in the student teaching program during the active season of their particular sport; e.g., football team members may enroll for student teaching only during the spring semester, basketball team members may enroll for student teaching only during the fall semester, etc.

ACADEMIC PROBATION

Any student who has less than a 2.0 average is on academic probation.

INELIGIBILITY FOR SCHOLASTIC DEFICIENCIES

Students are subject to the academic regulations of the university. For failure to comply with such regulations, a student may be suspended as provided by the West Virginia Board of Regents.

1. A student on probation must show marked improvement in academic performance. It is expected that his quality point average will be better than 2.0 on all work attempted during each succeeding term in which he is enrolled. If he fails to meet this standard, he may be declared ineligible to attend the next regular academic semester or he may be dismissed from the university.
2. A student who has a deficit of 20 or more quality points and who did not receive the reduction stipulated by the College of Education on all work attempted during the period of his last enrollment may be declared ineligible to attend the next regular academic semester.

READMISSION OF STUDENTS DECLARED INELIGIBLE TO ATTEND THE REGULAR ACADEMIC YEAR

A student who has been declared ineligible for readmission to either the fall or spring semester may carry a normal load of courses during either or both of the summer sessions to improve his academic standing. After he has reduced his quality point deficiency by the number stipulated by the College of Education, he may petition for enrollment in the first and/or second semester. If the student’s academic standing continues to deteriorate rather than improve, he will be subject to dismissal from the university.

Any student who enters another college or university following academic dismissal from Marshall University and thereafter seeks readmission to Marshall is classified as a transfer student and is governed by the regulations applying to transfer students.

It should be understood, however, that students must have a quality point average of 2.0 or higher on all work attempted at Marshall University. Quality points earned at another institution may not be used to reduce a quality point deficiency created at Marshall.

TRANSFER FROM ONE COLLEGE TO ANOTHER

All decisions regarding a student’s transfer to another college within the university is controlled by the student and the dean of the college to which the student proposes to transfer.

Individuals who are returning to the university from one or more years of active military duty are eligible to enter the college of their choice.

GRADUATION REQUIREMENTS

Grade Requirements

1. Admission to teacher education.
2. A quality point average of 2.0 (C) or better for all courses attempted.
3. A quality point average of 2.0 (C) or better in all comprehensive or subject specializations. All courses within the selected comprehensive or subject specialization(s) are considered in computing the grade point average, whether or not they are listed as requirements for the student’s specific comprehensive or subject specialization(s).
4. A quality point average of 2.0 (C) or better in all professional education courses.
5. A quality point average of 2.0 (C) or better in all courses attempted at Marshall University. Transfer credit may not be used to increase the grade point average.
6. National Teacher Examinations

NATIONAL TEACHER EXAMINATIONS

All College of Education students must complete the National Teacher Examinations during their senior year. The NTE includes:

1. The common examination.
2. The area examination.
Applications for the examination must be filed with Educational Testing Services, Princeton, New Jersey, on or before the deadline date published with the test announcement. The examination is scheduled three (3) times during the year and the student is responsible for the filing of his own application. The deadline date for filing will be announced for each examination.

RESIDENCY REQUIREMENTS

Those students who expect to complete degree requirements in the College of Education are required to complete their student teaching, a majority of their professional education courses, and the majority of each teaching specialization requirements at Marshall University, which must include at least one year's work in residence, one semester of which must be in the senior year. A "year in residence" must represent not less than 36 weeks work in residence with not less than 24 hours credit.

Candidates for a bachelor's degree who entered Marshall University within ten years prior to their graduation may graduate by meeting the requirements in effect on the date of their entrance. When the time between entrance and graduation is greater than ten years, the student must meet the graduation requirements in effect on the date of his graduation. For courses no longer offered, substitutions may be made by permission of the Academic Dean.

To meet requirements for recommendation for teacher certification, no catalog previous to the 1967-68 edition may be used to determine requirements for such certification. In all cases, students entering the College of Education under the 1967-68 catalog and thereafter must meet the prevailing requirements for teacher certification.

Program Requirements

The following information refers to the programming required in the College of Education.

1. Students must complete the curricular requirements as outlined in the undergraduate catalog in effect at the time they enter Marshall University or as outlined in this catalog.

2. Specializations may be taken in the following areas:
   - Art, Grades 7-12
   - Art, Grades K-12
   - Biological and General Science, Comprehensive: Grades 7-12
   - Business Education, Comprehensive: Grades 7-12
   - Business Principles, Grades 7-12
   - Chemistry and General Science, Comprehensive: Grades 7-12
   - Early Childhood Education, Grades N-6
   - Elementary School Teaching, Grades 1-6 and subject specializations for Grades 1-9
   - English, Grades 7-12
   - French, Grades 7-12
   - French, Grades 7-9 and 1-9
   - General Science, Grades 7-9 and 1-9
   - Health Education, Grades 7-12
   - Health Education, Grades K-12
   - Home Economics (Vocational), Comprehensive: Grades 7-12
   - Home Economics, Grades 7-9 and 1-9
   - Journalism, Grades 7-12
   - Language Arts, Comprehensive: Grades 7-12
   - Language Arts, Grades 7-9 and 1-9
   - Latin, Grades 7-12
Library Science, Grades K-12
Mathematics, Comprehensive: Grades 7-12
Mathematics, Grades 7-12
Mathematics, Grades 7-9 and 1-9
Music, Grades K-12
Physical Education, Grades 7-12
Physical Education, Grades K-12
Physics and General Science, Comprehensive: Grades 7-12
Recreation
Rehabilitation Education
Safety Education, Grades 7-12
Secretarial Studies, Grades 7-12
Social Studies, Comprehensive: Grades 7-12
Social Studies, Grades 7-9 and 1-9
Spanish, Grades 7-12
Spanish, Grades 7-9 and 1-9
Special Education
  Teaching Mentally Retarded, Elementary Education
  Teaching Mentally Retarded, Secondary Education
  Teaching Crippled and Other Handicapped, Elementary Education
  Teaching Crippled and Other Handicapped, Secondary Education
Speech, Grades 7-12
Speech, Grades 7-9 and 1-9
Speech and Hearing Therapy, Grades K-12

Students may obtain program sheets from the College of Education office. These forms will assist in the planning and in the recording of progress.

3. A minimum of one-hundred and twenty-eight (128) semester hours is required for graduation.
   a. Credit for English 100, Preparatory English, is not included in the minimum one-hundred and twenty-eight (128) hour total. Students who are required to take English 100 must complete an additional three (3) semester hours of work for a minimum total of one-hundred and thirty-one (131) semester hours for graduation.
   b. Students enrolling in the first year of a foreign language must complete six (6) semester hours if it is to be included in the minimum one-hundred and twenty-eight (128) semester hours required for graduation. Students who complete one-half or three (3) semester hours of the requirement must complete an additional three (3) hours of credit for a total of one-hundred and thirty-one (131) semester hours for graduation.

4. A minimum of forty-five (45) semester hours must be earned in 300-400 level courses. Courses transferred from two year colleges may not be used as part of the 300-400 level requirements. Courses transferred from four-year accredited colleges retain their original numbers.

5. Although the student is expected to complete a majority of his work at Marshall University it is possible to complete some course work at other institutions. Arrangements for such enrollment must be made in advance of enrollment.
GENERAL STUDIES REQUIREMENTS

The general studies requirements for a Bachelor of Arts (A.B.) degree in the College of Education are as follows: (44 hours)

The Humanities .......................................................... 19 hrs.

English Language: Grammar, Composition, Speech
- English 101-102, English Composition
  (or English 201H, English Composition Honors, 3 hrs.) .... 6 hrs.
- Speech 103, Speech Fundamentals or
  Speech 305, Principles of Public Address .......................... 3 hrs.

Literature: English and American Literature
Select 2 of the following courses: .......................... 6 hrs.
- English 300, English Literature
- English 301, American Literature
- English 307, Modern Drama
- English 310, Biography
- English 318, Types of Poetry
- English 329, Twentieth Century Novel
- English 331, The Short Story
- English 340, Black Literature
- English 360, Creative Writing

Art Appreciation
- Art 112, Art Appreciation .............................................. 2 hrs.

Music Appreciation
- Music 175, Music Appreciation ...................................... 2 hrs.

The Sciences and Mathematics ..................................... 11 hrs.

Biological Science/Physical Science**
- Biological Science 201, Biology of Plants and
- Biological Science 202, Animal Biology, or
- Physical Science 109-110, General Physical Science ........ 8 hrs.

Mathematics
- Mathematics 110, Introduction to College Mathematics *** ... 3 hrs.
- Curriculum and Instruction 101, Mathematics for
  Elementary Teachers I **** ........................................... 3 hrs.

The Social Studies ..................................................... 12 hrs.

*Beginning course open to juniors and seniors who have not had Speech 103 or 202 or by permission of the Chairman of the Department of Speech.

**Students majoring in home economics, physical education, speech and hearing therapy, and rehabilitation education must complete Biological Science 201-202. Students in the secondary school program may select this course or an advanced course.

***All science and business education majors should check with their adviser for the mathematics required by their specialization.

****Students in the elementary, special education and early childhood education programs must complete this course.
<table>
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<th>Course</th>
<th>Credits</th>
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<tr>
<td>History: Contemporary Civilization</td>
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<tr>
<td>Social Studies 104-105, Western Civilization In Its World Setting</td>
<td>6 hrs.</td>
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<tr>
<td>Current Problems: Economic, Social, Political</td>
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<tr>
<td>Social Studies 201-202, Fundamental Social Problems</td>
<td>6 hrs.</td>
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<tr>
<td>The Physical Education Subjects</td>
<td>2 hrs.</td>
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<td>MEN</td>
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<td>Military Science 101-102, Basic Course Military Science or Physical</td>
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<td>Education Electives: Select two of the following one-hour courses:</td>
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<td>Physical Education 100, 113, 114, 120, 140, 141, 142, 145, 205,</td>
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<td>Physical Education Electives: Select two of the following one-hour</td>
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<td>Physical Education 100, 125, 127, 132, 140, 141, 142, 145, 160,</td>
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**DIVERSIFIED SUBJECTS REQUIREMENTS***

Diversified subjects for teaching in a self-contained classroom of an elementary school shall include: (47 hours)

- **Children’s Literature**: Curriculum and Instruction 203, Children’s Literature .......... 3 hrs.
- **American History**: History 311-312-313, American History, 1492 to Present .......... 9 hrs.
- **West Virginia History and Government**: Social Studies 303, West Virginia History, Geography and Government .......... 3 hrs.
- **Biological Science and Physical Science**: (8 hours in addition to those included in the general studies requirements)
  - Biological Science 201, Biology of Plants and
  - Biological Science 202, Animal Biology or
  - Physical Science 109-110, General Physical Science .......... 8 hrs.
- **Mathematics for Teachers**: Curriculum and Instruction 201, Mathematics Education:
  - Curriculum and Instruction 300, Mathematics Education:
    - Teaching Arithmetic .......... 3 hrs.
- **Music Education**: Music 303, Music Skills for Classroom Teachers .......... 2 hrs.
- **Art Education**: Art 113, Drawing and Painting .......... 3 hrs.
  - Art 340, Crafts .......... 3 hrs.
- **Health Education**: Health Education 321, The School Health Program .......... 3 hrs.
- **Physical Education for Elementary Schools**: Physical Education 314, Materials and Methods for Elementary Schools .......... 3 hrs.

*Applies to programs for early childhood education, elementary education and special education options A and C.
SECONDARY SCHOOL TEACHING
(Grades 7-12)

The secondary school teaching program provides professional preparation for teaching in secondary schools (grades 7-12).

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree.
2. Professional requirements:
   - Educational Foundations 218, Human Development ... 3 hrs.
   - Educational Foundations 319, Human Development ... 3 hrs.
   - Educational Foundations 406, Foundations of Education ... 3 hrs.
   - Curriculum and Instruction 450, Supervised Student Teaching ... 8 hrs.
   - Curriculum and Instruction 475, Secondary Education ... 4 hrs.
   - Methods in the teaching specialization for grades 7-12 ... 3 hrs.

   Total 24 hrs.

3. Subject specialization requirements:
   Each program has its specific set of requirements. Reference should be made to the subject specialization for a listing of these requirements. The secondary school teaching program provides professional preparation for teaching in the junior high and high schools.

TEACHER EDUCATION PROGRAMS

ART
(Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. Submit near the end of the sophomore year a portfolio of art work completed in the freshman and sophomore years for review by the staff of the Department of Art. This must be submitted prior to enrollment in the advanced courses in art.
3. Present during the senior year a satisfactory exhibition of creative work.
4. A second subject specialization for grades 7-12 or 7-9.
5. Specialization requirements listed below.

   Art 101, Drawing ... 3 hrs.
   Art 113, Art Education: Drawing and Painting ... 3 hrs.
   Art 203, Composition and Design in Drawing and Painting ... 3 hrs.
   Art 214, Introduction to Design ... 3 hrs.
   Art 215, Three-Dimensional Design ... 3 hrs.
   Art 307, Sculpture ... 3 hrs.
   Art 340, Art Education: Crafts ... 3 hrs.
   Art 350, Watercolor Painting ... 3 hrs.
   Art 401-402, History of Art ... 6 hrs.
   Art 406, Figure Drawing ... 3 hrs.
   Art 455, Painting: Acrylic and Oil ... 3 hrs.
   Art 460, History and Philosophy of Art Education ... 3 hrs.
   Art 470, Graphic Processes ... 3 hrs.
Select one course from the following: 3 hrs.
Art 305, Ceramics; Art 306, Design in Metal

Total 45 hrs.

ART
(Grades K-12)

The subject specialization for grades K-12 affords the student of art the opportunity to reach the greatest competency in the subject. In addition to the course requirements a student must do the following:
1. Submit near the end of the sophomore year a portfolio of art work completed in the freshman and sophomore years for review by the staff of the Department of Art. This must be submitted prior to enrollment in the advanced courses in art.
2. Present during the senior year a satisfactory exhibition of creative work.

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree.
2. Professional requirements:
   Educational Foundations 218, Human Development ... 3 hrs.
   Educational Foundations 319, Human Development ... 3 hrs.
   Educational Foundations 406, Foundations of Education ... 3 hrs.
   Curriculum and Instruction 405, Supervised Student Teaching (1-6) ... 4 hrs.
   Curriculum and Instruction 450, Supervised Student Teaching (7-12) ... 4 hrs.
   Curriculum and Instruction 468, Teaching Art in the Secondary School ... 3 hrs.
   Curriculum and Instruction 475, Secondary Education ... 4 hrs.

   Total 24 hrs.

3. Specialization requirements:
   Art 101-102, Drawing ... 6 hrs.
   Art 113, Art Education: Drawing and Painting ... 3 hrs.
   Art 203, Composition, Color and Design in Drawing and Painting ... 3 hrs.
   Art 214, Introduction to Design ... 3 hrs.
   Art 215, Three-Dimensional Design ... 3 hrs.
   Art 307, Sculpture ... 3 hrs.
   Art 340, Art Education: Crafts ... 3 hrs.
   Art 350, Watercolor Painting ... 3 hrs.
   Art 401-402, History of Art ... 6 hrs.
   Art 406, Figure Drawing ... 3 hrs.
   Art 455-456, Painting: Acrylic and Oil ... 6 hrs.
   Art 460, History and Philosophy of Art Education ... 3 hrs.
   Art 470, Graphic Processes ... 3 hrs.

   Select one course from the following: 3 hrs.
   Art 305, Ceramics, 3 hrs.
   Art 306, Design in Metals, 3 hrs.

   Select one course from the following: 3 hrs.
   Art 403, Oriental Art, 3 hrs.
   Art 404, 20th Century Art, 3 hrs.
   Art 405, Art in America, 3 hrs.
Art 407, Primitive Art, 3 hrs.
Art 408, Black Art, 3 hrs.

Total 54 hrs.

BIOLOGICAL AND GENERAL SCIENCE*
(Comprehensive: Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. Specialization requirements listed below.
   Biological Science 201, Biology of Plants, and
   Biological Science 202, Animal Biology ........ 8 hrs.
   Biological Science 306, Field Biology .............. 4 hrs.
   Botany 415, Plant Morphology ..................... 4 hrs.
   Botany 416, Plant Taxonomy ....................... 4 hrs.
   Chemistry 203-204, General Chemistry I and II or
   Chemistry 211-212, Principles of Chemistry I and II .... 6 hrs.
   Select two courses from the following sequence .......... 2 hrs.
      Chemistry 213, Identification of the Elements, 1 hr.
      Chemistry 214, Quantitative Aspects of Chemistry, 1 hr.
      Chemistry 215, Environmental Chemistry, 1 hr.
   Chemistry 216, The Elements of Life, 1 hr.
   Geology 200, Physical Geology ** .................. 3 hrs.
   Geology 201L, Earth Materials Laboratory ** .... 1 hr.
   Physical Science 400, Astronomy ** ............. 3 hrs.
   Physics 201-203, General Physics *** .......... 6 hrs.
   Physics 202-204, General Physics Laboratory .... 2 hrs.
   Select 7-8 hours from the following: .............. 7-8 hrs.
      Biological Science 407, Genetics (4 hour course)
      Biological Science 482, Conservation of Forests,
         Soil and Wildlife (3 hour course)
      Botany 302, General Bacteriology (4 hour course)
      Botany 418, Mycology and Plant Pathology
         (4 hour course)
      Zoology 315, Human Anatomy and Physiology
         (4 hour course)

Total 54-55 hrs.

BUSINESS EDUCATION
(Comprehensive: Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.

*Geology 200-210L and Physical Science 400 may be omitted by a student who
completes a second subject specialization for grades 7-9 or 7-12.
**A student who wishes to qualify for a specialization in Biological Science may omit
Geology 200, 210L and Physical Science 400 but will be required to complete a second
specialization.
***Mathematics 120 and 122 or 122 and 130 or 131 are prerequisites for all courses in
physics.
2. Specialization requirements listed below.
   - Accounting 215-216, Principles of Accounting 6 hrs.
   - Accounting 311, Intermediate Accounting 3 hrs.
   - Economics 310, Money and Banking 3 hrs.
   - Finance 307, Principles of Business Law 3 hrs.
   - Finance 323, Principles of Business Finance 3 hrs.
   - Management 318, Business Statistics 3 hrs.
   - Management 320, Principles of Management 3 hrs.
   - Marketing 340, Principles of Marketing 3 hrs.
   - Office Administration 103, Typewriting 2 hrs.
   - Office Administration 104, Intermediate Typewriting 2 hrs.
   - Office Administration 105, Advanced Typewriting 2 hrs.
   - Office Administration 201, Shorthand 3 hrs.
   - Office Administration 202, Shorthand-Transcription 3 hrs.
   - Office Administration 301, Intermediate Dictation 3 hrs.
   - Office Administration 305, Office Machines 3 hrs.
   - Office Administration 404, Secretarial Training 3 hrs.
   - Office Administration 421, Office Management 3 hrs.

Electives as needed to make a total of 58-63 hours in business
(to be selected from the areas of advertising, data processing, marketing, finance and management and administration).

Total 58-63 hrs.

**BUSINESS PRINCIPLES**
(Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. A second subject specialization for grades 7-12 or 7-9.
3. Specialization requirements listed below.
   - Accounting 215-216, Principles of Accounting 6 hrs.
   - Finance 307, Principles of Business Law 3 hrs.
   - Finance 323, Principles of Business Finance 3 hrs.
   - Management 318, Business Statistics 3 hrs.
   - Marketing 340, Principles of Marketing 3 hrs.
   - Office Administration 103, Typewriting 2 hrs.
   - Office Administration 104, Intermediate Typewriting 2 hrs.
   - Office Administration 105, Advanced Typewriting 2 hrs.
   - Office Administration 305, Office Machines 3 hrs.
   - Office Administration 421, Office Management 3 hrs.

Total 34-36 hrs.

**CHEMISTRY AND GENERAL SCIENCE** *
(Comprehensive: Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.

  *No credit if student has had one year or more in high school.

  **Geology 200-2101, and Physical Science 400 may be omitted by a student who completes a second subject specialization for grades 7-9 or 7-12.
2. Specialization requirements listed below.
   Biological Science 201, Biology of Plants, and
   Biological Science 202, Animal Biology ........... 8 hrs.
   Chemistry 211-212, Principles of Chemistry I and II ... 6 hrs.
   Select two courses from the following sequence .......... 2 hrs.
   Chemistry 213, Identification of the Elements, 1 hr.
   Chemistry 214, Quantitative Aspects of Chemistry, 1 hr.
   Chemistry 215, Environmental Chemistry, 1 hr.
   Chemistry 216, The Elements of Life, 1 hr.
   Chemistry 231, Introductory Organic
   Chemistry Laboratory .................................. 2 hrs.
   Chemistry 300, Introductory Biochemistry .......... 3 hrs.
   Chemistry 327, Introductory Organic Chemistry .... 3 hrs.
   Chemistry 307, Introductory Physical Chemistry ...... 3 hrs.
   Chemistry 345, Quantitative Analysis ............... 3 hrs.
   Geology 200, Physical Geology *................ 3 hrs.
   Geology 210L, Earth Materials Laboratory* ....... 1 hr.
   Physical Science 400, Astronomy **............... 3 hrs.
   Physics 201-203, General Physics ** ............. 6 hrs.
   Physics 202-204, General Physics Laboratory** .... 2 hrs.
   Total ................................................. 45 hrs.

EARLY CHILDHOOD EDUCATION

The early childhood education program provides professional preparation
for teaching in the nursery school, kindergarten or in grades one (1) through six
(6) of the elementary school.

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree.
2. Diversified subjects requirements for teaching in a self-contained
classroom.
3. Professional requirements:
   Educational Foundations 218, Human Development ... 3 hrs.
   Educational Foundations 319, Human Development ... 3 hrs.
   Educational Foundations 406, Foundations of
   Education ........................................... 3 hrs.
   Curriculum and Instruction 410, Supervised
   Student Teaching .................................... 8 hrs.
   Curriculum and Instruction 443, Teaching Reading
   in Elementary Schools ................................ 3 hrs.
   Total ............................................... 20 hrs.
4. Specialization requirements:
   Child Development Directed to Early Childhood Education
   Home Economics 303, Child Development ............ 3 hrs.
   (Includes actual experiences with children)
   Organization and Administration of Early Childhood
   Curriculum and Instruction 367, Early Childhood
   Organization and Administration .................. 3 hrs.
   Early Childhood Education and Curriculum to Include:

* Geology 200-210L and Physical Science 400 may be omitted by a student who completes
  a second subject specialization for grades 7-9 or 7-12.
** Mathematics 120 and 122 or 122 and 130 or 131 are prerequisites for all courses in
  physics.
Sciences, Art, Music and Language Development
Curriculum and Instruction 409, Early Childhood Curricula .................................................. 3 hrs.
Curriculum and Instruction 307, Science in the Elementary School ............................................. 3 hrs.
Speech 250, Storytelling and Dramatization ................. 3 hrs.
Speech Development
Speech 418, Communication Disorders of School Children ......................................................... 3 hrs.
Total 18 hrs.

ELEMENTARY SCHOOL TEACHING

The elementary school teaching program provides professional preparation for teaching in elementary schools (grades 1-6) and for teaching subject specializations for grades 1-9.

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree.
2. Diversified subjects requirements for teaching in a self-contained classroom.
3. Professional requirements:
   Educational Foundations 218, Human Development ... 3 hrs.
   Educational Foundations 319, Human Development ... 3 hrs.
   Curriculum and Instruction 400, Elementary Education .... 4 hrs.
   Curriculum and Instruction 405, Supervised Student Teaching .................................................. 8 hrs.
   Curriculum and Instruction 443, Teaching Reading In Elementary Schools ................................ 3 hrs.
Total 24 hrs.
4. Subject specialization requirements:
   Students preparing to teach in an elementary school must select one of the subject specializations for grades 1-9 or a specialization for special education or the specialization requirements for early childhood education.

The specializations for grades 1-9 are French, general science, home economics, language arts, mathematics, social studies, Spanish, and speech. The specific curricular requirements are listed under the subject area in the Secondary Education section of this catalog.

ENGLISH
(Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. A second subject specialization for grades 7-12 or 7-9.
3. Specialization requirements listed below.
   English 300, English Literature .......................... 3 hrs.
   English 301, American Literature ........................ 3 hrs.
   English 325, Shakespeare ................................. 3 hrs.
   English 405, Study of the English Language .......... 3 hrs.
English 408, Advanced Expository Writing .......... 3 hrs.
English 420, Senior Seminar in Literature .......... 3 hrs.
English 450, or 451, World Literature .......... 3 hrs.
English 475, Introduction to Linguistics .......... 3 hrs.
Language, Classic or Modern Foreign .......... 6 hrs.
Elective in English in 300-400 series .......... 3 hrs.

Total 33 hrs.

FRENCH
(Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. A second subject specialization for grades 7-12 or 7-9.
3. Specialization requirements listed below.

French 121-122, First Year French .......... 6 hrs.
French 314, Studies in Language Laboratory Techniques .......... 3 hrs.
French electives (must include at least 9 hours of literature) .......... 15 hrs.

Total 30 hrs.

FRENCH
(Grades 7-9 and 1-9)

French 121-122, First Year French .......... 6 hrs.
French 314, Studies in Language Laboratory Techniques .......... 3 hrs.
French electives (must include at least 6 hours of literature) .......... 9 hrs.

Total 24 hrs.

GENERAL SCIENCE
(Grades 7-9 and 1-9)

Biological Science 201, Biology of Plants and Biological Science 202, Animal Biology .......... 8 hrs.
Biological Science 482, Conservation of Forests, Soil and Wildlife .......... 3 hrs.
Chemistry 203-204, General Chemistry I and II or Chemistry 211-212, Principles of Chemistry I and II .......... 6 hrs.
Select two courses from the following sequence .......... 2 hrs.
Chemistry 213, Identification of the Elements
Chemistry 214, Quantitative Aspects of Chemistry
Chemistry 215, Environmental Chemistry
Chemistry 216, The Elements of Life
Geology 200, Physical Geology .......... 3 hrs.
Geology 210L, Earth Materials Laboratory .......... 1 hr.
Physical Science 400, Astronomy .......... 3 hrs.
Physics 201-203, General Physics .......... 6 hrs.
Physics 202-204, General Physics Laboratory .......... 2 hrs.

Total 34 hrs.
HEALTH EDUCATION
(Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. A second subject specialization for grades 7-12 or 7-9.
3. Specialization requirements listed below.
   - Health Education 220, Personal Health .......... 3 hrs.
   - Health Education 222, First Aid ................ 2 hrs.
   - Health Education 321, The School Health Program .... 3 hrs.
   - Health Education 325, School and Community Health .... 2 hrs.
   - Health Education 328, Methods and Materials in Teaching Health .... 3 hrs.
   - Health Education 411, Mental Health ............... 1 hr.
   - Health Education 412, Sex Education ............... 1 hr.
   - Health Education 413, Alcohol Use and Abuse ........ 1 hr.
   - Health Education 414, Drug Use and Abuse ........... 1 hr.
   - Physical Education 301, Scientific Foundations for Physical Education .... 3 hrs.
   - Safety Education 235, Introduction to Safety Education .......... 3 hrs.
   - Select one course from the following: .......... 3-4 hrs.
     - Biological Science 430, Ecology, 4 hrs.
     - Botany 302, General Bacteriology, 4 hrs.
     - Physical Education 440, Physiology of Exercise, 3 hrs.
     - Sociology 200, Introductory Sociology, 3 hrs.

Total 26-27 hrs.

HEALTH EDUCATION
(Grades K-12)

The completion of a program in health education for grades 7-12 plus the addition of the course listed below will qualify a graduate for teaching health education in grades K-12.

As part of the student teaching requirement students must complete:

   Curriculum and Instruction 405, Elementary Education:
   Supervised Student Teaching ................ 4 hrs.

HOME ECONOMICS (VOCATIONAL)
(Comprehensive: Grades 7-12)

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree. Home Economics majors must complete Biological Science 201-202 to meet the science requirement:
2. Professional requirements:
   - Educational Foundations 218, Human Development .... 3 hrs.
   - Educational Foundations 319, Human Development .... 3 hrs.

*Substitute for the professional education requirements listed for secondary school teaching.
Home Economics 450, Home Economics Education: Student Teaching in Home Economics .............. 8 hrs.
Total 23 hrs.

3. Specialization requirements:
   Chemistry 203-204, General Chemistry I and II ......................................................... 8 hrs.
   Home Economics 110, Food Selection and Preparation .................................................... 3 hrs.
   Home Economics 203, Meal Management ............................................................................. 3 hrs.
   Home Economics 210, Nutrition ......................................................................................... 3 hrs.
   Home Economics 212, Textiles .......................................................................................... 2 hrs.
   Home Economics 213* , Advanced Clothing Construction .................................................. 3 hrs.
   Home Economics 303, Child Development ......................................................................... 3 hrs.
   Home Economics 314, Clothing Selection ........................................................................... 3 hrs.
   Home Economics 351, Housing ............................................................................................ 3 hrs.
   Home Economics 354, Home Furnishings .......................................................................... 3 hrs.
   Home Economics 358, Principles of Management ................................................................ 2 hrs.
   Home Economics 405, Quantity Food Service or Home Economics 413, Experimental Foods ...... 3 hrs.
   Home Economics 415, Family Relationships ...................................................................... 3 hrs.
   Home Economics 416, Prenatal and Infant Care .................................................................. 3 hrs.
   Home Economics 420, Household Equipment ...................................................................... 3 hrs.
   Home Economics 427, Home Management Laboratory ....................................................... 3 hrs.
   Home Economics 461, The Family as Consumers ............................................................... 3 hrs.
Total 54 hrs.

HOME ECONOMICS
(Grades 7-9 and 1-9)

Home Economics 110, Food Selection and Preparation ......................................................... 3 hrs.
Home Economics 112* , Clothing Construction or Home Economics 213* , Advanced Clothing Construction ...................................................... 2-3 hrs.
Home Economics 210, Nutrition ............................................................................................ 3 hrs.
Home Economics 303, Child Development ............................................................................ 3 hrs.
Home Economics 354, Home Furnishing ................................................................................ 3 hrs.
Home Economics 358, Principles of Management .................................................................. 2 hrs.
Home Economics 415, Family Relationships ....................................................................... 3 hrs.
Electives: Select 5-6 hours from the following ........................................................................ 5-6 hrs.
   Home Economics 203, Meal Management (3 hour course)
   Home Economics 212, Textiles (2 hour course)
   Home Economics 314, Clothing Selection (3 hour course)
   Home Economics 420, Household Equipment (3 hour course)
   Home Economics 461, The Family as Consumers (3 hour course)
Total 24-26 hrs.

*Placement in Home Economics 112 or 213 is determined by score achieved in a clothing construction pretest.
Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. A second subject specialization for grades 7-12. Methods must be taken in this subject area.
3. Specialization requirements listed below.
   - Journalism 201, News Reporting I ................. 2 hrs.
   - Journalism 202, News Reporting II ................ 4 hrs.
   - Journalism 300, History of American Journalism ...... 3 hrs.
   - Journalism 301, Copy Editing I .................... 2 hrs.
   - Journalism 302, Copy Editing II .................. 4 hrs.
   - Journalism 308, Feature Writing ................... 2 hrs.
   - Journalism 360, News Photography I ................ 3 hrs.
   - Journalism 402, Ethics and Law of Mass Communications ................ 3 hrs.
   - Journalism 428, High School Publications ........... 3 hrs.
   - Journalism 440, Seminar: Mass Communications and Society ................ 3 hrs.
   - Electives: Select one of the following courses ........ 2 hrs.
      - Journalism 304, Editorial Writing, 2 hrs.
      - Journalism 310, Critical Writing, 2 hrs.

Total 31 hrs.

LANGUAGE ARTS**
(Comprehensive: Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. Specialization requirements listed below.
   - English 300, English Literature ................... 3 hrs.
   - English 301, American Literature .................. 3 hrs.
   - English 325, Shakespeare ........................ 3 hrs.
   - English 405, Study of the English Language .......... 3 hrs.
   - English 408, Advanced Expository Writing .......... 3 hrs.
   - English 420, Senior Seminar in Literature ........... 3 hrs.
   - English 450, or 451, World Literature ............. 3 hrs.
   - English 475, Introduction to Linguistics ............ 3 hrs.
   - Journalism 308, Feature Writing ................... 2 hrs.
   - Journalism 428, High School Publications ........... 3 hrs.
   - Language, Classic or Modern Foreign ............... 6 hrs.
   - Speech 205, Argumentation and Debate ............... 3 hrs.
   - Speech 240, Voice Training ........................ 3 hrs.
   - Speech 320, Oral Interpretation of Literature ........ 3 hrs.
   - Speech 403, Play Direction ........................ 3 hrs.
   - Speech 450, The Direction of Speech Activities ........ 3 hrs.
   - Select one of the following: ..................... 3 hrs.
      - Speech 210, Acting or
      - Speech 432, Use of Radio and Television in the Classroom

Total 53 hrs.

*Requires a second subject specialization for grades 7-12.
**Comprehensive for teaching English, speech and journalism.
LANGUANGE ARTS
(Grades 7-9 and 1-9)

Curriculum and Instruction 203, Children’s Literature .. 3 hrs.
English 300, English Literature .................................. 3 hrs.
English 301, American Literature .................................. 3 hrs.
English 405, Study of the English Language or
English 475, Introduction to Linguistics .................. 3 hrs.
English 408, Advanced Expository Writing .................. 3 hrs.
Speech 250, Storytelling and Dramatization .................. 3 hrs.
Speech 418, Communication Disorders of
School Children .................................................. 3 hrs.

Total 21 hrs.

LATIN*
(Grades 7-12)

Minimum Requirements for Graduation
1. Requirements as outlined for Secondary School Teaching.
2. A second subject specialization for grades 7-12 or 7-9.
3. Specialization requirements listed below.
   Latin 101-102, First Year Latin .......................... 6 hrs.
   Classics 436, Roman Civilization .......................... 3 hrs.
   Electives: Latin courses with the approval of adviser .. 18 hrs.

Total 33 hrs.

LIBRARY SCIENCE**
(Grades K-12)

Minimum Requirements for Graduation
1. General studies requirements for an A.B. degree.
2. Professional requirements:
   Educational Foundations 218, Human Development ..... 3 hrs.
   Educational Foundations 319, Human Development ..... 3 hrs.
   Educational Foundations 406, Foundations
   of Education .................................................. 3 hrs.
   Curriculum and Instruction 405, Supervised Student
   Teaching (1-6) or
   Curriculum and Instruction 450, Supervised Student
   Teaching (7-12) ............................................. 3-5 hrs.
   Curriculum and Instruction 400, Elementary
   Education or
   Curriculum and Instruction 475, Secondary Education 4 hrs.
   Educational Media 465, Utilization of Educational
   Media ......................................................... 3 hrs.

*May be reduced by advanced placement.
**Office Administration 103 or the equivalent is a prerequisite to courses in library science.
Educational Media 466, Production of Audiovisual Aids .................................. 3 hrs.

Total ..................................................................................................................... 22-24 hrs.

3. A second subject specialization for grades 7-12 or 7-9. Methods must be taken in this subject area.

4. Specialization requirements:
   Educational Media 301, The Teacher and Library Service ................................ 3 hrs.
   Educational Media 310, Organization and Administration of School Libraries ... 3 hrs.
   Educational Media 315, Reference and Bibliography ........................................ 3 hrs.
   Educational Media 320, Cataloging and Classification ...................................... 3 hrs.
   Educational Media 404, Book Selection for Children ....................................... 3 hrs.
   Educational Media 405, Book Selection for Adolescents ................................... 3 hrs.
   Educational Media 450, Library Practice ......................................................... 3-5 hrs.

   Educational Media electives: Select one of the following: .............................. 3 hrs.
   Educational Media 401, History of Books and Libraries
   Educational Media 410, Foundations of Mass Communications

Total ..................................................................................................................... 24-26 hrs.

Note: Total Credit for Curriculum and Instruction 450 and Educational Media 450 shall not exceed ...................... 8 hrs.

MATHEMATICS
(Comprehensive: Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.

2. Specialization requirements listed below.
   Mathematics 122, Plane Trigonometry* ......................................................... 3 hrs.
   Mathematics 130, College Algebra* ............................................................... 3 hrs.
   Mathematics 131, Calculus with Analytic Geometry I ................................. 5 hrs.
   Mathematics 230, Calculus With Analytic Geometry II ................................ 4 hrs.
   Mathematics 231, Calculus With Analytic Geometry III ................................ 4 hrs.
   Mathematics 330, Linear Algebra .................................................................. 3 hrs.
   Mathematics 449, Projective Geometry ......................................................... 3 hrs.
   Mathematics 450, Fundamental Concepts of Modern Algebra ....................... 3 hrs.

   Electives: ............................................................................................................. 3-4 hrs.
   Any mathematics course above Mathematics 231 may be elected except Mathematics 400 and 401.

Total ..................................................................................................................... 37-38 hrs.

NOTE: All students must complete the mathematics placement

*Not required of a student whose high school program in mathematics included equivalent content. In such circumstances the total hours may be lowered accordingly. This decision is to be made by the Chairman of the Department of Mathematics.
The score on the ACT determines the first mathematics course in which a student may enroll.

**MATHEMATICS**  
(Grades 7-12)

**Minimum Requirements for Graduation**

1. Requirements as outlined for Secondary School Teaching.
2. A second subject specialization for grades 7-12 or 7-9.
3. Specialization requirements listed below.

   Mathematics 122*, Plane Trigonometry ............ 3 hrs.
   Mathematics 130*, College Algebra ................. 3 hrs.
   Mathematics 131, Calculus With Analytic Geometry I .... 5 hrs.
   Mathematics 230, Calculus With Analytic Geometry II .... 4 hrs.
   Mathematics 231, Calculus With Analytic Geometry III .... 4 hrs.
   Select one of the following ........................ 3 hrs.
       Mathematics 448, Fundamental Concepts of Modern Geometry (3 hour course) or
       Mathematics 449, Projective Geometry (3 hour course)
   Select one of the following: ...................... 3 hrs.
       Mathematics 330, Linear Algebra (3 hour course), or
       Mathematics 450, Fundamental Concepts of Modern Algebra (3 hour course)

Total 25 hrs.

**NOTE:** All students must complete the mathematics placement examination. The score on the ACT determines the first mathematics course in which a student may enroll.

**MATHEMATICS**  
(Grades 7-9 and 1-9)

Curriculum and Instruction 101, Mathematics Education:  
Mathematics for Elementary Teachers I ................. 3 hrs.
Curriculum and Instruction 201, Mathematics Education:  
Mathematics for Elementary Teachers II ................. 3 hrs.
Curriculum and Instruction 300, Mathematics Education:  
Teaching Arithmetic ................................ 2 hrs.
Curriculum and Instruction 482, Mathematics Education:  
Special Topics ..................................... 3 hrs.
   (Required for 7-9 specialization only)
Electives: ........................................... 8 hrs.
   Any course above Mathematics 110 may be elected
Recommended:  
   Mathematics 400, Structure of Algebra
   Mathematics 401, Structure of Modern Geometry

Total 16-19 hrs.

*Not required of a student whose high school program in mathematics included equivalent content. In such circumstances the total hours may be lowered accordingly. This decision is to be made by the Chairman of the Department of Mathematics.
MUSIC
(Grades K-12)

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree.
2. Professional requirements:
   - Educational Foundations 218, Human Development ... 3 hrs.
   - Educational Foundations 319, Human Development ... 3 hrs.
   - Educational Foundations 406, Foundations of Education ... 3 hrs.
   - Music Education 338, Materials and Methods in School Music (K-6) ... 3 hrs.
   - Music Education 340, Materials and Methods in School Music (7-12) ... 3 hrs.
   - Curriculum and Instruction 405, Supervised Student Teaching (K-6) ... 4 hrs.
   - Curriculum and Instruction 450, Supervised Student Teaching (7-12) ... 4 hrs.

   Total: 23 hrs.

3. Specialization requirements:
   - Applied Music (24 hours) *
     - Major ...................................... 14 hrs.
     - Minor ....................................... 6 hrs.
     - Techniques ................................... 4 hrs.
       - Music 261, String Techniques (1 hour course)
       - Music 262, Woodwind Techniques (1 hour course)
       - Music 263, Brass Techniques (1 hour course)
       - Music 264, Percussion Techniques (1 hour course)
     - Major Ensembles ................................ 7 hrs.
     - Music 301, Analysis ................................ 2 hrs.
     - Music 316, Keyboard Harmony ......................... 2 hrs.
     - Music 320, Instrumental Arranging or
     - Music 321, Choral Arranging ......................... 2 hrs.
     - Music 380, Instrumental Conducting ..................... 2 hrs.
     - Music 480, Choral Conducting ......................... 2 hrs.
     - Electives ......................................... 2 hrs.

   Total: 70 hrs.

PHYSICAL EDUCATION
(Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.

*Students must select an applied music major from the applied music areas listed in the catalog. The applied music minor consists of six semester hours in applied music outside of the student’s major area. In all cases the student will complete a minimum of four semester hours of instrumental techniques, four hours of piano and two hours of voice.
A second subject specialization for grades 7-12 or 7-9.

Specialization requirements listed below.

**Science**

- Physical Education 301, Scientific Foundations for Physical Education ........................................... 3 hrs.
- Physical Education 321, Kinesiology .......................... 3 hrs.
- Physical Education 440, Physiology of Exercise ........ 3 hrs.

Total 9 hrs.

**Movement Experiences**

**MEN (14 hours)**

**General Studies Requirement:**

- Physical Education 115, Orientation to Professional Physical Education .......................... 1 hr.
- Physical Education 116, Orientation to Professional Physical Education .......................... 1 hr.

Total 2 hrs.

**Professional Activities:** Select 6 hours from the following:

- Physical Education 251, Professional Activities I .... 2 hrs.
- Physical Education 252, Professional Activities II .... 2 hrs.
- Physical Education 253, Professional Activities III .... 2 hrs.
- Physical Education 254, Professional Activities IV .... 2 hrs.

Total 6 hrs.

**Aquatic Activities:** Select 1 hour from the following:

- Physical Education 100, Beginner’s Course in Swimming .................................................. 1 hr.
- Physical Education 205, Intermediate Swimming .. 1 hr.
- Physical Education 403, Advanced Swimming .... 1 hr.
- Physical Education 404, Water Safety Instruction . 1 hr.

Total 1 hr.

**Rhythmic, Gymnastic, and Leadership Activities**

- Physical Education 330, Rhythmic Activities ....... 1 hr.
- Physical Education 306, Tumbling and Gymnastics .................................................. 1 hr.
- Physical Education 312, Leadership in Sports .... 1 hr.

Total 3 hrs.

**Electives:** Select 2 hours from the following:

1. Any one of the swimming courses of a more advanced level than that chosen to satisfy the required aquatics .................................................. 1 hr.

2. The one professional activity course that was not selected to satisfy the required Professional Activities .................................................. 2 hrs.

- Physical Education 240, Intermediate Tennis .... 1 hr.
- Physical Education 241, Intermediate Golf .... 1 hr.
- Physical Education 309, Advanced Tumbling and Gymnastics .................................................. 1 hr.
- Physical Education 405, Advanced Round and Folk Dance .................................................. 1 hr.
- Physical Education 420, Advanced Practice and Officiating .................................................. 1 hr.
Physical Education 421, Advanced Practice and Officiating .................. 1 hr.

Total 2 hrs.

WOMEN(14 hours)

General Studies Requirement:
Physical Education 123, Survey of Physical Abilities ......................... 1 hr.
Physical Education 124, Fundamentals of Movement ......................... 1 hr.

Total 2 hrs.

Professional Activities:
Physical Education 108, Field Hockey and Badminton .................. 2 hrs.
Physical Education 147, Soccer and Bowling .................. 2 hrs.
Physical Education 230, Basketball and Track-Field .................. 2 hrs.
Physical Education 231, Tennis and Intermediate Swimming ........ 2 hrs.
Physical Education 232, Golf and Volleyball .................. 2 hrs.
Physical Education 233, Tumbling and Gymnastics .................. 2 hrs.
Physical Education 304, Modern Dance .................. 1 hr.
Physical Education 330, Rhythmic Activities .................. 1 hr.

Total 12 hrs.

Theory Foundations

Physical Education 118, Introduction to Physical Education 2 hrs.
Health Education 222, First Aid 2 hrs.

or

Physical Education 422, Prevention, Care and Treatment of Athletic Injuries 2 hrs.
Physical Education 322, Adapted Physical Education 2 hrs.
Physical Education 365, Tests and Measurements in Health and Physical Education 3 hrs.
Physical Education 410, Organization and Administration of Physical Education and Athletics 3 hrs.
Physical Education 470, Curriculum Development in Physical Education 2 hrs.

Total 16 hrs.

Total required hours for the specialization 39 hrs.

PHYSICAL EDUCATION*
(Grades K-12)

The completion of a program in physical education for grades 7-12 plus

Requires a second subject specialization for grades 7-9 or 7-12.
the addition of the courses listed below will qualify a graduate for teaching physical education in grades K-12.

Physical Education 260, Movement Behavior in Children .... 3 hrs.
Physical Education 314, Materials and Methods for Elementary Schools ........................................ 3 hrs.
Physical Education 350, Creative Rhythms .................. 2 hrs.
Curriculum and Instruction 405, Elementary Education: Supervised Student Teaching .................... 3-5 hrs.

Total .................................................................. 11-13 hrs.

Total required hours for Grades K-12 specialization 50-55 hrs.

PHYSICS AND GENERAL SCIENCE*
(Comprehensive: Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. Specialization requirements listed below.

Biological Science 201, Biology of Plants and
Biological Science 202, Animal Biology ............ 8 hrs.
Chemistry 203-204, General Chemistry I and II or
Chemistry 211-212, Principles of Chemistry I and II ... 6 hrs.
Select two courses from the following sequence ...... 2 hrs.
Chemistry 213, Identification of the Elements, 1 hr.
Chemistry 214, Quantitative Aspects of Chemistry, 1 hr.
Chemistry 215, Environmental Chemistry, 1 hr.
Chemistry 216, The Elements of Life, 1 hr.

Geology 200, Physical Geology ......................... 3 hrs.
Geology 210L, Earth Materials Laboratory ............ 1 hr.

Physics 201-203 **, General Physics .................. 6 hrs.
Physics 202-204, General Physics Laboratory ........ 2 hrs.
Physics 320, Introductory Modern Physics ............ 3 hrs.
Physics 421, Modern Physics Laboratory .............. 2 hrs.

Physics electives** ........................................ 7-8 hrs.

Recommended:
Physics 314, Electronic Physics and
Physics 315, Electronics Laboratory

Select 2-3 hours from the following:
Physics 301, Electrical Measurements (2 hour course)
Physics 304, Optics (3 hour course)
Physics 305, Optics Laboratory (2 hour course)
Physics 308, Thermal Physics (3 hour course)

Total .................................................................. 43-44 hrs.

*Geology 200-210L and Physical Science 400 may be omitted by a student who completed a second subject specialization for grades 7-9 or 7-12.

**Mathematics 120 and 122 or 122 and 130 or 131 are prerequisite for all courses in physics.
RECREATION

The College of Education has been approved for the offering of a Bachelor of Science degree with a major in Recreation. Details of this program will be available in the Department of Health, Physical Education and Safety Education. Interested persons should see the Department Chairman for program details.

REHABILITATION EDUCATION

The rehabilitation education program leads to an A.B. degree and prepares the student for work or for additional specialized study in rehabilitation and in related fields. This does not qualify an individual for public school teaching. Students must complete CR 306 before being admitted to the program as a rehabilitation education major.

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree. The rehabilitation student must complete Biological Science 201-202 to meet the science requirement.
2. Professional requirements:
   - Counseling and Rehabilitation 306, Introduction to Rehabilitation ................. 3 hrs.
   - Counseling and Rehabilitation 307, Introductory Practicum in Rehabilitation ................. 2 hrs.
   - Counseling and Rehabilitation 406, Rehabilitation Services ................. 3 hrs.
   - Counseling and Rehabilitation 407, Rehabilitation Practicum ............ 4 hrs.
   - Counseling and Rehabilitation 426, Advanced Practicum in Rehabilitation ................. 2 hrs.

   Total 14 hrs.

3. Specialization requirements:
   - Psychology (6 hrs)
     - Psychology 201, General Psychology ................. 3 hrs.
     - Psychology 311, Developmental Psychology: Infancy to Old Age ................. 3 hrs.
   - Sociology (9 hours)
     - Sociology 200, Introductory Sociology ........ 3 hrs.
     - Sociology 305, Community Organization ........ 3 hrs.
     - Sociology 409, Social Welfare ........ 3 hrs.
   - Zoology (4 hours)
     - Zoology 315, Human Anatomy and Physiology ........ 4 hrs.

   Total 19 hrs.

4. Supporting requirements: (18 hours)
   The following courses are suggested. Others may be selected with the approval of the rehabilitation education adviser.
   Include four of the following:
   - Counseling and Rehabilitation 425, 490
   - Educational Foundations 435
   - Psychology 204, 223, 302, 406
   - Sociology 302, 310, 332, 342, 400, 408, 412, 413, 433

   Include two of the following:
   - Counseling and Rehabilitation 408
   - Curriculum and Instruction 320, 433, 444
SAFETY EDUCATION*
(Grades 7-12)

Safety Education 235, Introduction to Safety Education ... 3 hrs.
Safety Education 385, Traffic Safety and Driver Education ... 3 hrs.
Safety Education 480, Traffic Law and Enforcement ....... 3 hrs.
Related course electives (Select 6 hours from the following) ... 6 hrs.
   Health Education 222, 223
   Physical Education 403, 404, 422
   Safety Education 450, 485, 486, 489, 493, 495

Total 18 hrs.

SECRETARIAL STUDIES
(Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. A second subject specialization for grades 7-12 or 7-9.
3. Specialization requirements listed below.
   Accounting 215-216, Principles of Accounting ........ 6 hrs.
   Finance 307, Principles of Business Law ............ 3 hrs.
   Management 318, Business Statistics ................. 3 hrs.
   Office Administration 103**, Typewriting ............ 2 hrs.
   Office Administration 104, Intermediate Typewriting .. 2 hrs.
   Office Administration 105, Advanced Typewriting .... 2 hrs.
   Office Administration 201**, Shorthand ............... 3 hrs.
   Office Administration 202, Shorthand-Transcription ... 3 hrs.
   Office Administration 301, Intermediate Dictation .... 3 hrs.
   Office Administration 305, Office Machines .......... 3 hrs.
   Office Administration 404, Secretarial Training ..... 3 hrs.
   Office Administration 421, Office Management ...... 3 hrs.

Total 37-42 hrs.

SOCIAL STUDIES
(Comprehensive: Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. Specialization requirements listed below.

*Safety education may be used as a second specialization for those students completing a comprehensive specialization. For all others it must be completed as a third subject specialization.
**No credit if student has had one year or more in high school.
Anthropology 301, Cultural Anthropology .................. 3 hrs.
Economics 300, Survey of Economics ..................... 3 hrs.
Geography 203, General Economic Geography ............ 3 hrs.
Geography 317, World Geographical Problems ............ 3 hrs.
History 311-312-313, American History, 1492 to Present ...... 9 hrs.
History 321-322, European History, 1492 to Present ........ 6 hrs.
History 375, The Far East or History 427, Russia in the 19th and 20th Centuries 3 hrs.
Political Science 201, American National Government ....... 3 hrs.
Social Studies 104-105, Western Civilization in its World Setting ............... 6 hrs.
Social Studies 201-202, Fundamental Social Problems ....... 6 hrs.
Social Studies 303, West Virginia History, Geography and Government, or Political Science 202 .... 3 hrs.

Total 51 hrs.

SOCIAL STUDIES
(Grades 7-9 and 1-9)

Geography 317, World Geographical Problems ............ 3 hrs.
History 311-312-313, American History, 1492 to Present ...... 9 hrs.
Political Science 201, American National Government ........ 3 hrs.
Social Studies 104-105, Western Civilization in its World Setting .................. 6 hrs.
Social Studies 201-202, Fundamental Social Problems ....... 6 hrs.
Social Studies 303, West Virginia History, Geography and Government .................. 3 hrs.

Total 30 hrs.

SPANISH*
(Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. A second subject specialization for grades 7-12 or 7-9.
3. Specialization requirements listed below
   Spanish 101-102, First Year Spanish ............... 6 hrs.
   Spanish 203-204, Intermediate Spanish ............. 6 hrs.
   Spanish 314, Studies in Language Laboratory Techniques .................. 3 hrs.
   Spanish Electives: ................................ 15 hrs.
   (Must include at least 9 hours of literature)

Total 30 hrs.

SPANISH
(Grades 7-9 and 1-9)

Spanish 101-102, First Year Spanish .................... 6 hrs.

*Requires a second subject specialization.
Spanish 314, Studies in Language Laboratory
  Techniques ..................................... 3 hrs.
Spanish Electives: .................................. 9 hrs.
  (Must include at least 6 hours of literature)

Total .............................................. 24 hrs.

SPECIAL EDUCATION

The special education program is designed with four (4) options for the
student who wishes to participate in the field of teaching exceptional children.
Options A and C are combined with the program for the preparation of
elementary school teachers.
Options B and D are combined with the program for the preparation of
secondary school teachers.

Option A
Teaching Mentally Retarded
Elementary Education

Minimum Requirements for Graduation

1. General studies requirements leading to an A.B. degree.
2. Diversified subjects requirements for teaching in a self-contained
classroom.
3. Professional requirements:
   Educational Foundations 218, Human Development ... 3 hrs.
   Educational Foundations 319, Human Development ... 3 hrs.
   Educational Foundations 406, Foundations of
     Education .................................... 3 hrs.
   Curriculum and Instruction 400, Elementary
     Education ...................................... 4 hrs.
   Curriculum and Instruction 405, Supervised
     Student Teaching ............................ 4 hrs.
   Curriculum and Instruction 440, Student Teaching
     With Mentally Retarded Children ............ 4 hrs.

Total .............................................. 21 hrs.

4. Specialization requirements:
   Orientation to Exceptional Children
   Curriculum and Instruction 320, Survey of
     Exceptional Children .......................... 3 hrs.
   Characteristics and Psychological Needs
   Curriculum and Instruction 433, Introduction to
     Mental Retardation ........................... 3 hrs.
   Educational Procedures, Curriculum, Methods
   Curriculum and Instruction 453, Curriculum Development
     for Teachers of the Mentally Retarded ....... 3 hrs.
   Related Contents
   Educational Foundations 435, Tests and Measurements . 3 hrs.
   Speech 418, Communication Disorders of School
     Children ......................................... 3 hrs.
   Other
   Curriculum and Instruction 443, Teaching Reading
     in Elementary Schools .......................... 3 hrs.

Total .............................................. 18 hrs.
Minimum Requirements for Graduation

1. General studies requirements leading to an A.B. degree.
2. Professional requirements:
   - Educational Foundations 218, Human Development .......... 3 hrs.
   - Curriculum and Instruction 450, Supervised Student Teaching .............. 4 hrs.
   - Curriculum and Instruction 440, Student Teaching With Mentally Retarded Children .......... 4 hrs.
   - Curriculum and Instruction 475. Secondary Education .......... 4 hrs.
   - Methods in the subject specialization .................... 3 hrs.

   Total 23 hrs.

3. Subject specializations as outlined for secondary school teachers.
4. Specialization requirements:
   - Orientation to Exceptional Children
     - Curriculum and Instruction 320, Survey of Exceptional Children .......... 3 hrs.
   - Characteristics and Psychological Needs
     - Curriculum and Instruction 433, Introduction to Mental Retardation .......... 3 hrs.
   - Educational Procedures, Curriculum, Methods
     - Curriculum and Instruction 453, Curriculum Development For Teachers of the Mentally Retarded .......... 3 hrs.
   - Related Contents
     - Speech 418, Communication Disorders of School Children .......... 3 hrs.
   - Supporting requirements:
     - Art 340, Art Education: Crafts .......... 3 hrs.
     - Curriculum and Instruction 203, Children's Literature .......... 3 hrs.
     - Curriculum and Instruction 201, Mathematics Education: Mathematics for Elementary Teachers II .......... 3 hrs.
     - Curriculum and Instruction 300, Mathematics Education: Teaching Arithmetic .......... 2 hrs.
     - Physical Education 314, Materials and Methods for Elementary Schools .......... 3 hrs.

Other
   - Curriculum and Instruction 443, Teaching Reading in Elementary Schools,
     or
   - Curriculum and Instruction 445, Teaching Reading in Secondary Schools .......... 3 hrs.

   Total 38 hrs.
Option C
Teaching Crippled and Other Handicapped
Elementary Education

Minimum Requirements for Graduation

1. General studies requirements leading to an A.B. degree.
2. Diversified subjects requirements for teaching in a self-contained classroom.
3. Professional requirements:
   - Educational Foundations 218, Human Development ... 3 hrs.
   - Educational Foundations 319, Human Development ... 3 hrs.
   - Educational Foundations 406, Foundations of Education ... 3 hrs.
   - Curriculum and Instruction 400, Elementary Education 4 hrs.
   - Curriculum and Instruction 405, Supervised Student Teaching ... 5 hrs.
   - Curriculum and Instruction 496, Student Teaching With Students With Crippling Conditions ... 3 hrs.
   - Total 21 hrs.

4. Specialization requirements:
   - Orientation to Exceptional Children
     - Curriculum and Instruction 320, Special Education: Survey of Exceptional Children ... 3 hrs.
   - Characteristics and Psychological Needs
     - Curriculum and Instruction 444, Special Education: Characteristics of Crippled Children ... 3 hrs.
   - Educational Procedures, Curriculum, Methods
     - Curriculum and Instruction 425, Special Education: Advanced Curriculum Development for Exceptional Children ... 3 hrs.
     - Curriculum and Instruction 495, Special Education: Clinical Implications of Crippling Conditions (Special Topics) ... 3 hrs.
   - Related Contents
     - Educational Foundations 435, Tests and Measurements ... 3 hrs.
   - Other
     - Curriculum and Instruction 443, Teaching Reading In The Elementary Schools ... 3 hrs.
   - Total 18 hrs.

Option D
Teaching Crippled and Other Handicapped
Secondary Education

Minimum Requirements for Graduation

1. General studies requirements leading to an A.B. degree.
2. Professional requirements:
   - Educational Foundations 218, Human Development ... 3 hrs.
   - Educational Foundations 319, Human Development ... 3 hrs.
   - Educational Foundations 406, Foundations of Education ... 3 hrs.
   - Curriculum and Instruction 450, Supervised Student Teaching ... 5 hrs.
Curriculum and Instruction 496, Student Teaching  
With Students With Crippling Conditions .................. 3 hrs.
Curriculum and Instruction 475, Secondary  
Education ............................................. 4 hrs.
Methods in the subject specialization ...................... 3 hrs.

Total 24 hrs.

3. Subject specializations as outlined for secondary school teachers.
4. Specialization requirements:
   Orientation to Exceptional Children
   Curriculum and Instruction 320, Special Education:
   Survey of Exceptional Children .......................... 3 hrs.
Characteristics and Psychological Needs
   Curriculum and Instruction 444, Special Education:
   Characteristics of Crippled Children ............... 3 hrs.
Educational Procedures, Curriculum, Methods
   Curriculum and Instruction 425, Special Education:
   Advanced Curriculum Development for
   Exceptional Children .................................. 3 hrs.
   Curriculum and Instruction 495, Special Education:
   Clinical Implications of Crippling Conditions .... 3 hrs.
Related Contents
   Educational Foundations 435, Tests and Measurements . 3 hrs.
Supporting requirements:
   Art 340, Art Education: Crafts .......................... 3 hrs.
   Curriculum and Instruction 307, Science Education:
   Science in The Elementary School ........................ 3 hrs.
   Curriculum and Instruction 203, Children’s Literature .. 3 hrs.
   Curriculum and Instruction 201, Mathematics Education:
   Mathematics for Elementary Teachers II ............ 3 hrs.
   Curriculum and Instruction 300, Mathematics Education:
   Teaching Arithmetic ................................ 2 hrs.
   Music 370, Music Materials and Procedures ............ 3 hrs.
   Physical Education 314, Materials and Methods for
   Elementary Schools .................................... 3 hrs.
Other:
   Curriculum and Instruction 443, Teaching Reading
   In The Elementary Schools
or
   Curriculum and Instruction 445, Teaching Reading
   In Secondary Schools .................................. 3 hrs.

Total 38 hrs.

SPEECH  
(Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. A second subject specialization for grades 7-12 or 7-9.
3. Specialization requirements listed below.
   Speech 103, Fundamentals of Speech or
   Speech 305 *, Principles of Public Address .......... 3 hrs.
   Speech 202, Introduction to Public Address ........ 3 hrs.

*Beginning course open to juniors and seniors who have not had Speech 103 or 202 or by permission of the chairman of the Department of Speech.
Speech 205, Argumentation and Debate ................................. 3 hrs.
Speech 210, Acting ........................................................................ 3 hrs.
Speech 240, Voice Training .......................................................... 3 hrs.
Speech 312-313, Play Production ............................................... 4 hrs.
Speech 320, Oral Interpretation of Literature ............................ 3 hrs.
Speech 403, Play Direction .......................................................... 3 hrs.
Speech 418, Communication Disorders of School Children ....... 3 hrs.
Speech 432, Use of Radio and Television in the Classroom ....... 3 hrs.
Speech 450, The Direction of Speech Activities .................... 3 hrs.

Total ......................................................................................... 34 hrs.

SPEECH
(Grades 7-9 and 1-9)

Speech 103, Fundamentals of Speech Communication or
   Speech 305, Principles of Public Address .......................... 3 hrs.
Speech 202, Introduction to Public Address ............................ 3 hrs.
Speech 209, Introduction to the Theatre ................................ 3 hrs.
Speech 210, Acting ................................................................. 3 hrs.
Speech 240, Voice Training ..................................................... 3 hrs.
Speech 250, Storytelling and Dramatization ........................... 3 hrs.
Speech 418, Communication Disorders of School Children ....... 3 hrs.
Speech 432, Use of Radio and Television in the Classroom ....... 3 hrs.
Speech 445, Children’s Theatre .............................................. 3 hrs.

Total ......................................................................................... 27 hrs.

SPEECH AND HEARING THERAPY
(Grades K-12)

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree. Biological Science
   201-202 must be completed as the science requirement.
2. Professional requirements:
   Educational Foundations 218* , Human Development, or
   Psychological 311* Developmental Psychology:
   Infancy to Old Age ......................................................... 3 hrs.
   Educational Foundations 319, Human Development ........... 3 hrs.
   Educational Foundations 406, Foundations of
   Education ........................................................................ 3 hrs.
   Educational Foundations 435, Tests and Measurements .... 3 hrs.

Total ......................................................................................... 12 hrs.

3. Specialization requirements:
   Speech 240, Voice Training ............................................... 3 hrs.
   Speech 370, Language and Speech Development ................ 3 hrs.
   Speech 420, Voice in Communications ................................. 3 hrs.
   Speech 422, Speech in Communications .............................. 3 hrs.
   Speech 424, Diagnostic Processes with Communication
   Disorders ............................................................................ 3 hrs.

*Educational Foundations 218 or Psychology 311 must be taken before Educational
   Foundations 319.
Speech 425, Language in Communication ................ 3 hrs.
Speech 426, Clinical Problems with Communication
  Disorders .................................... 3 hrs.
Speech 427, Clinical Practicum with School Children ...... 6 hrs.
Speech 429, Anatomy and Physiology ........................ 3 hrs.
Speech 439, Phonetics .................................. 3 hrs.
Speech 460, Hearing in Communication ..................... 3 hrs.
Speech 463, Methods and Materials with Hearing
  Disorders .................................... 3 hrs.
Speech 468, Methods and Materials with Speech
  Disorders .................................... 3 hrs.
Speech 470, Therapeutic Processes with Communication
  Disorders .................................... 3 hrs.
Electives (Recommended) ................................ 15 hrs.
Curriculum and Instruction 320, Special Education:
  Survey of Exceptional Children ...................... 3 hrs.
  English 475, Introduction to Linguistics ........ 3 hrs.
  Psychology 201, General Psychology ............... 3 hrs.
  Psychology 340, Physiological Psychology .......... 3 hrs.
  Psychology 408, Psychology of Abnormal Behavior 3 hrs.

Total ............................................. 60 hrs.
Multi-Departmental Offerings

Description of courses listed below may be found in the sections which follow.

APPALACHIAN STUDIES

Anthropology 455 Appalachian Culture. 3 hrs.
Anthropology 456 Appalachian Field Study 6 hrs.
Geography 206 Geography of W. Va. 2 hrs.
Geography 420 Field Geography of W. Va. 3 hrs.
History 307 History of W. Va. 3 hrs.

BLACK STUDIES

Social Studies 295 The Negro in American Culture. 3 hrs.
Social Studies 296 The Negro: Men and Issues in America. 3 hrs.
Anthropology 426 African Cultures. 3 hrs.
Anthropology 427 Ethnic Relations. 3 hrs.
Anthropology 408 Black Art. 3 hrs.
English 340 Black Literature. 3 hrs.
History 316 History of Black America to 1885. 3 hrs.
History 317 History of Black America Since 1885. 3 hrs.
Political Science 376 Black Politics. 3 hrs.
Political Science 429 The Politics of Conflict and Revolution. 3 hrs.
Political Science 461 The Functional Dimension of Urban Politics. 3 hrs.
Political Science 486 American Constitutional Law: Civil Liberties. 3 hrs.
Sociology 325 Sociology of the Negro. 3 hrs.
Speech 307 Oral Communication in Social Crises. 3 hrs.

COMPUTER SCIENCE

Interdisciplinary Studies 201 Introduction to Computing. 3 hrs.

HUMANITIES

Interdisciplinary Studies 150. Social Studies 105, Art 112, Mus. 175. 7 hrs.
Interdisciplinary Studies 151. Social Studies 105, Art 112. 5 hrs.
Interdisciplinary Studies 152. Social Studies 105, Mus 175. 5 hrs.
Courses of Instruction

ABBREVIATIONS

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

ACCOUNTING
(ACC)

Professor Charles Webb, Chairman

COLLEGE OF BUSINESS AND APPLIED SCIENCE

Associate Professors Chen, McMullen, Webb
Assistant Professors Adkins, Radig
Instructors Hamood, Madison

215. PRINCIPLES OF ACCOUNTING. 3 hrs. I, II, S.
Introduction to principles and procedures of double entry accounting records and reports.

216. PRINCIPLES OF ACCOUNTING. 3 hrs. I, II, S.
Introduction to principles and procedures of double entry accounting records and reports.
PR: Accounting 215.

311. INTERMEDIATE ACCOUNTING. 3 hrs. I, S.
Principles and problems of valuation, analysis, and formal presentation of accounting data.
PR: Accounting 216.

312. INTERMEDIATE ACCOUNTING. 3 hrs. II, S.
Principles and problems of valuation, analysis, and formal presentation of accounting data.
PR: Accounting 216.

347. COST ACCOUNTING. 3 hrs. I, S.
Principles of industrial cost accounting; job order, departmental and process costs.
PR: Accounting 216.

348. FEDERAL TAXATION. 3 hrs. II, S.
Problems and procedures of income tax accounting.
PR: Accounting 216.

412. GOVERNMENTAL ACCOUNTING. 3 hrs. I.
A study of the use of accounting information in the financial management of governmental and non-profit entities.
PR: Accounting 216.

413. AUDITING. 3 hrs. II, S.
Theory and procedures; legal and social responsibilities of the auditor.
PR: Accounting 216.
414. ADVANCED ACCOUNTING PROBLEMS. 3 hrs. I, S.
   Selected problems in advanced accounting principles and procedures.
   PR: Accounting 312.

418. MANAGERIAL ACCOUNTING. 3 hrs. II, S.
   The managerial approach to budgetary control.
   PR: Accounting 216.

495H-496H. READINGS FOR HONORS IN ACCOUNTING. 2-4 hrs.
   Open only to students of outstanding ability. Both must be taken to receive credit. See Honors Students.

ART
(ART)

Mrs. June Q. Kilgore, Chairman

COLLEGE OF EDUCATION

Associate Professor Kilgore
Assistant Professors Burkett, Cornfeld, Demiray, Dolin, Ertresvaag
Instructors Allen, Hutton, Twitchell

101-102. DRAWING. 3;3 hrs. I, II.
   Freehand drawing with emphasis on drawing from nature and the posed model, using a variety of media.
   PR: Open to art majors and minors only. Others must have the permission of the Chairman of the Department of Art.

112. ART APPRECIATION. 2 hrs. I, II, S.
   Significance of art in everyday living. Required of all students in the College of Education.

113. ART EDUCATION: DRAWING AND PAINTING. 3 hrs. I, II, S.
   Creative expression in drawing, painting, graphics and design directed to the needs of students in elementary education.

203. COMPOSITION, COLOR AND DESIGN IN DRAWING AND PAINTING. 3 hrs.
   Design elements studied as to their use in conveying compositional ideas and practical use of these ideas and elements in original compositions in a variety of traditional media.
   PR: Art 101 and 102.

214. INTRODUCTION TO DESIGN. 3 hrs.
   Basic and related problems in design dealing with the plastic elements – line, color, form, space, and texture.
   PR: Art 101.

215. THREE-DIMENSIONAL DESIGN. 3 hrs.
   Design with emphasis on three dimensional form.

216. COMMERCIAL ART. 3 hrs.
   Projects in advertising layouts, merchandise display, and container design.
305. CERAMICS. 3 hrs.
Advanced design problems in clay. Students will be involved in methods of producing ceramic forms by hand and with the potter's wheel and in problems of firing and glazing.
PR: Art 214 and/or Art 215.

306. DESIGN IN METAL. 3 hrs.
Advanced design in metal. Emphasis on copper, silver, pewter, brass. Problems involve soldering, enameling, and shaping metal by hand.
PR: Art 214 or Art 215.

307. SCULPTURE. 3 hrs.
Emphasis on modeling in clay and exploring the potential of plaster, wood and other materials relevant to the area of sculpture.
PR: Art 101 and 102.

340. ART EDUCATION: CRAFTS. 3 hrs. I, II, S.
Philosophy and methods of art education supplemented by laboratory experiences featuring crafts for students in early childhood and elementary education. 1 lec-3 lab.
PR: Art 113.

350. WATERCOLOR PAINTING. 3 hrs.
Watercolor medium in expressing still life, landscape, and the human figure.
PR: Art 101 and 102.

360. PAINTING MEDIA. 3 hrs.
Projects in egg tempera, fresco, mixed media, and gilding.
PR: Junior or senior standing and Art 101 and Art 102.

401-402. HISTORY OF ART. 3; 3 hrs. I, II.
A survey of the development of architecture, sculpture, painting, and the minor arts to ca. 1400 A.D. and from 1400 A.D. to the present.

403. ORIENTAL ART. 3 hrs.
A historical survey of the architecture, painting, and sculpture of China, Indonesia, and Japan.

404. 20th CENTURY ART. 3 hrs.
A survey of the development of architecture, painting and sculpture in the western world during the present century.

405. ART IN AMERICA. 3 hrs.
A survey of the development of architecture, painting, and sculpture from colonial times to the present.

406. FIGURE DRAWING. 3 hrs.
Practice in drawing from the posed human figure.
PR: Art 101 and 102.

407. PREHISTORIC AND PRIMITIVE ART. 3 hrs.
An introduction to the unique arts of so-called pre-civilized peoples with a two-fold emphasis: first, the European pre-historic; second, the non-European primitive.

408. BLACK ART. 3 hrs.
A survey of the development of black arts from ancient Africa to contemporary expressions in both the old and new worlds.

Open to all qualified students.

455-456. PAINTING: ACRYLIC AND OIL. 3; 3 hrs.
Study and practice of painting in expressing abstract still life, landscape, and the human figure.
PR: Art 102 and 203.

460. ART EDUCATION: HISTORY AND PHILOSOPHY OF ART EDUCATION. 3 hrs.
A survey of the evolution of art education, philosophy, and a study of problems related to art education on the elementary and high school levels.
PR: Art 340.

461-462-463. SPECIAL TOPICS. 1-3; 1-3; 1-3 hrs.

470. GRAPHIC PROCESSES. 3 hrs.
Experiments in the media of etching, dry point, lithography, and wood cuts as means of pictorial expression.

BIBLE AND RELIGION (BR)

Dr. Louis B. Jennings, Chairman

COLLEGE OF ARTS AND SCIENCES (Division of Humanities)

Professor Jennings
Associate Professor Goodwin
Assistant Professor McNearney

Courses in the Department of Bible and Religion are open to all students at Marshall University and may be used to fulfill the requirements for a minor in the College of Arts and Sciences. Students who plan to pursue graduate and professional studies in religion should consult with the departmental chairman.

206. HISTORY AND LITERATURE OF THE NEW TESTAMENT. 2 hrs.
The Jewish and gentile background and the beginnings of Christianity with an introduction to the writings of the New Testament. Open to freshmen.

210. OLD TESTAMENT HISTORY. 2 hrs.
The growth and development of the Hebrew people, religion, and literature, to the Greek period. Open to freshmen.

300. INTRODUCTION TO THE STUDY OF RELIGION: NATURE OF RELIGION. 3 hrs.
An analysis of the nature of religious personalities, institutions, literature, philosophies, experiences, and education.

301. INTRODUCTION TO THE STUDY OF RELIGION: FUNCTION OF RELIGION. 3 hrs.
A correlation of religion with the different areas of life; natural sciences, humanities, social sciences, philosophy, ethics, education.
302. OUTLINES OF CHURCH HISTORY. 3 hrs.
  The historical development of Christianity from the first century to the present.

304. THE TEACHINGS OF JESUS. 2 hrs.
  An analysis of the Gospels and a systematic study of the message of Jesus.

310. THE HEBREW PROPHETS. 2 hrs.
  The rise of the office of prophet and the contributions of prophecy to religion.

315. PSYCHOLOGY OF RELIGION. 3 hrs.
  An examination of the factors in individual and group religious experiences.

323. HISTORY OF RELIGIOUS THOUGHT IN AMERICA. 3 hrs.
  The rise and development of religion and of religious thinking in America.

418. DEVELOPMENT OF RELIGIOUS IDEAS. 3 hrs.
  A study of the sources of religious thought in western culture.

419. RELIGIOUS THOUGHT IN THE WESTERN WORLD. 3 hrs.
  An analysis of the major schools of religious thought as they have developed in the West.

420. RECENT AND CONTEMPORARY RELIGIOUS THOUGHT. 3 hrs.
  A survey of the major currents of religious thinking in the twentieth century.

430. ORIGIN AND TRANSMISSION OF THE BIBLE. 3 hrs.
  A study of the history of the canonization, textual transmission, and translations of the Bible.

450. SOCIOLOGY OF RELIGION. 3 hrs.
  An investigation into the nature of religion as a social phenomenon.

495H-496H. READINGS FOR HONORS IN BIBLE AND RELIGION.
  4; 4 hrs. See Honors Courses.
  Open only to Bible and religion majors of outstanding ability. Both courses must be taken in order to receive credit.

**BIOLOGICAL SCIENCES**

Dr. Harold E. Ward, Chairman

**COLLEGE OF ARTS AND SCIENCES**

(Division of Sciences)

Professors Ward, Fisher, Mills, Plymale, Warren
Associate Professors Ash, Tarter
Assistant Professors Binder, Bird, Brumfield, Frum, Gain, Joy, Modlin, Taylor, Weaks
Instructors Adkins, Daugherty, Kahle, Little, Raczok
201. BIOLOGICAL SCIENCE (Biology of Plants). 4 hrs. I, II, S.
The fundamentals of biology, with emphasis on plant structures, functions, and classification, including cellular organization and processes which are common to both plant and animal life. 3 lec-2 lab.

Biological principles of structure, function, development, growth, classification, and evolution with emphasis on man and other vertebrates. 3 lec-2 lab.
PR: Biological Science 201.

306. FIELD BIOLOGY. 4 hrs. II, S.
Identification, classification, habitats, and communities of animal and plant life in field and laboratory.
PR: 8 semester hours of biological science.

403. BIOLOGICAL MICROTECHNIC. 3 hrs. I.
PR: One year of biological science.

404. CELLULAR PHYSIOLOGY. 4 hrs. I, II, S.
The chemistry of cell functions, including cellular organizations, with special emphasis on intermediary metabolism. 2 lec-4 lab.
PR: 2 years biological science and 1 semester organic chemistry or consent of instructor.

407. (ZOO 407) GENETICS. 4 hrs. I, S.
The fundamental principles and mechanisms of inheritance including their human application.
PR: Biological Science 202.

413. (ZOO 413) PRINCIPLES OF ORGANIC EVOLUTION. 2 hrs. I, S.
The progress of animal life through time and a discussion of known causes.
PR: Zoology 212.

430. ECOLOGY. 4 hrs. II, S.
The interrelationships of plants, animals, and environment. Local and world distribution of biotic communities.
PR: Botany 316 or consent of instructor.

431. LIMNOLOGY. 4 hrs. II, S.
The study of inland waters; ecological factors affecting lake and stream productivity and various aquatic communities.

482. CONSERVATION OF FORESTS, SOIL AND WILDLIFE. 3 hrs. I, S.
Primarily for teachers in the biological, general and applied sciences. Includes field work, seminars, and demonstrations on phases of conservation of forest, soil, and wildlife.

483. HISTORY AND DEVELOPMENT OF BIOLOGY. 3 hrs. II, S.
A study of the men who have developed our knowledge of biology,
the philosophy of the period; and work of the foremost men in the field.
PR: 12 semester hours of science.

**Botany**
(BOT)

302. GENERAL BACTERIOLOGY. 3 hrs. I, II, S.
Basic microbiological techniques, fundamental principles of microbial action, physiological processes, immunology, serology, disease process. 2 lec-4 lab.
PR: Biological Science 201 (or equivalent), or one year chemistry.

402. BACTERIOLOGY: SPECIAL TOPICS. 1-3 hrs.
PR: Botany 302.

405. ECONOMIC BOTANY. 3 hrs. I.
Plants used by man for food, ornamental purposes, building materials, textiles and other industrial purposes; economic importance of conservation. No laboratory.

410. SPECIAL TOPICS. 1-4 hrs. I, II, S.
By permission of instructor and consent of department chairman.

415. PLANT MORPHOLOGY. 4 hrs. I, S.
Characteristics of the great plant groups. Discussion of important steps in the development of plants. 2 lec-4 lab.
PR: Biological Science 201 or equivalent.

416. PLANT TAXONOMY. 4 hrs. II, S.
Recognition of our native seed plants and ferns. 2 lec-4 lab.
PR: Biological Science 201 or equivalent.

418. MYCOLOGY AND PLANT PATHOLOGY. 4 hrs. I.
Nature, cause and control of plant disease. 2 lec-4 lab.
Biological Science 201 or equivalent.

**Zoology**
(ZOO)

212. ADVANCED GENERAL ZOOLOGY. 4 hrs. I, II, S.
Classification, structure and relationships of the important animal phyla.
PR: Biological Science 202.

225. HUMAN BIOLOGY. 4 hrs. I, II.
Structure and function of the human organism. Open to candidates for the A.S. degree in Nursing.

300. HISTOLOGY. 4 hrs. II.
Microscopic study of vertebrate tissues. 2 lec-4 lab.
PR: Biological Science 202.

301. VERTEBRATE EMBRYOLOGY. 4 hrs. I, S.
Vertebrate development based chiefly on frog, chick and pig embryos. 2 lec-4 lab.
PR: Biological Science 202.
302. COMPARATIVE VERTEBRATE ANATOMY. 4 hrs. II, S.
Structure, function and relationships of systems of selected
vertebrates with an emphasis on embryology and evolution.
PR: Biological Science 202.

315. HUMAN ANATOMY AND PHYSIOLOGY. 4 hrs. II, S.
The structure and functions of the human body. 3 lec-2 lab.
PR: Biological Science 202.

402. 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.
PR: Zoology 212.

403. ENTOMOLOGY. 3 hrs. S.
Anatomy, classification, life histories and economic importance of
representative insects. 1 lec-4 lab.
PR: Zoology 212.

407. (BSC 407) GENETICS. 4 hrs. I, S.
The fundamental principles and mechanisms of inheritance
including their human application.
PR: Biological Science 202.

408. ORNITHOLOGY. 3 hrs. II, S.
Identification, distribution, migration and breeding activities of
birds. 2 lec-2 lab.

413. (BSC 413) PRINCIPLES OF ORGANIC EVOLUTION. 2 hrs. I, S.
The progress of animal life through time with a discussion of known
causes.
PR: Zoology 212.

424. ANIMAL PARASITOLOGY. 4 hrs. I, II or S.
morphology, life histories, classification, and host relationships of
common parasites. 2 lec-4 lab.
PR: Zoology 212.

426. MEDICAL ENTOMOLOGY. 4 hrs. I, II, or S.
The role of certain insects and other arthropods in the transmission of
disease organisms and methods of control. 2 lec-4 lab.
PR: Zoology 212.

431. LIMNOLOGY. 4 hrs. II, S.
The study of inland waters; ecological factors affecting lake and
stream productivity and various aquatic communities.

450-451-452. SPECIAL PROBLEMS. 1-3; 1-3; 1-3 hrs. I, II, S.
By permission of instructor and department chairman.
COURSES OF INSTRUCTION

CHEMISTRY*
(CHM)

Dr. Edward S. Hanrahan, Chairman

COLLEGE OF ARTS AND SCIENCES
(Division of Sciences)

Professors Chakrabarty, Douglass, Hanrahan, Hoback, Lepley
Associate Professors Kong, Larson, Roberts
Assistant Professors Babb, Price

100. ELEMENTARY CHEMISTRY 4 hrs. I, II, S.
Open to candidates for the A.S. degree in Nursing. Includes topics from chemical principles, inorganic, organic, and biochemistry. Not open to students planning to enter professional schools. 3 lec-3 lab.

190H-191II. HONORS IN CHEMISTRY 1 hr. I, II, S.
Independent study programs for outstanding students.
PR: Permission of the department chairman.

203. GENERAL CHEMISTRY I. 3 hrs. I, S.
An introduction to chemical science, its development, basic concepts and interrelationships with other sciences. Intended primarily for non-science majors and A.B. degree candidates. 3 lec.
CR: Chem. 213, 214, 215, or 216.

204. GENERAL CHEMISTRY II. 3 hrs. II, S.
A continuation of Chemistry 203 with emphasis on introductory organic and biochemistry. 3 lec-3 lab.
PR: Chemistry 203 or junior standing.
CR: Chemistry 213, 214, 215 or 216

211. PRINCIPLES OF CHEMISTRY I. 3 hrs. I, II, S.
A study of the properties of materials and their interactions with each other. Development of theories and applications of the principles of energetics, dynamics and structure. Intended primarily for science majors and pre-professional students. 3 lec.
CR: Chemistry 213.

212. PRINCIPLES OF CHEMISTRY II. 3 hrs. I, II, S.
A continuation of Chemistry 211. 3 lec.
PR: Chemistry 211.
CR: Chemistry 213, 214, 215, or 216

213. IDENTIFICATION OF THE ELEMENTS. 1 hr. I, II, S.
An introduction to the principles of experimentation and to laboratory techniques as applied to the qualitative analysis and identification of the chemical elements. One of the four courses (213, 214, 215, 216) which may be selected to meet the two-course laboratory requirement for introductory chemistry. 3 lab.

*The Department of Chemistry is approved by the Committee on Professional Training of the American Chemical Society.
214. QUANTITATIVE ASPECTS OF CHEMISTRY. 1 hr. I, II, S.
An introduction to quantitative measurement and to the relationship between experimental values and molecular structure and reactivity. One of the four courses (213, 214, 215, 216) which may be selected to meet the two-course laboratory requirement for introductory chemistry. 3 lab.

215. ENVIRONMENTAL CHEMISTRY. 1 hr. I, II, S.
A study of experimental problems in the detection and measurement of common chemicals. Emphasis will be on problems of air and water pollution, with some attention to problems in consumer chemistry. One of the four courses (213, 214, 215, 216) which may be selected to meet the two-course laboratory requirement for introductory chemistry. 3 lab.

216. THE ELEMENTS OF LIFE. 1 hr. I, II, S.
An introduction to the laboratory study of the chemistry of organic molecules and their biochemical applications. One of the four courses (213, 214, 215, 216) which may be selected to meet the two-course laboratory requirement in introductory chemistry. 3 lab.

290H-2911H. HONORS IN CHEMISTRY I, II. 1 hr. I, II, S.
Independent study programs for outstanding students.
PR: Permission of the department chairman.

300. INTRODUCTORY BIOCHEMISTRY. 3 hrs. II.
An introduction to biochemical systems. 3 lec.
PR: Chemistry 327 or 356.

301. INTRODUCTORY BIOCHEMISTRY LABORATORY. 1 hr. II.
Introduction to methods of identification and characterization of biochemical systems. 3 lab.
PR or CR: Chemistry 300.

305. CHEMICAL LITERATURE. 1 hr.
PR or CR: Chemistry 356.

307. INTRODUCTORY PHYSICAL CHEMISTRY. 3 hrs. II.
PR: Chemistry 327 or 356. 3 lec.

327. INTRODUCTORY ORGANIC CHEMISTRY. 3 hrs. I.
A short study of organic chemistry. 3 lec.
PR: Chemistry 212 or 204.

331-332. CHEMISTRY SEMINAR. Credit. I, II.
A graduation requirement for all juniors seeking the B.S. in Chemistry degree. 1 lec.

345. QUANTITATIVE ANALYSIS. 3 hrs. I, S.
An introduction to the basic principles of analytical chemistry. 1 lec-6 lab.
PR: Chemistry 212, and any two from 213, 214, 215 or 216.

355. ORGANIC CHEMISTRY I. 3 hrs. I, S.
A systematic study of organic chemistry. 3 lec-6 lab.
PR: Chemistry 212 or 204, 3 hrs. II, S.

356. ORGANIC CHEMISTRY II. 3 hrs. II, S.
Continuation of Chemistry 355 and qualitative organic analysis. 3 lec-6 lab.
PR: Chemistry 355.

357. PHYSICAL CHEMISTRY I. 3 hrs. I.
A systematic study of physical chemistry. 3 lec.
PR: Chemistry 356, eight hours of physics, Mathematics 230.
CR: Mathematics 231.

358. PHYSICAL CHEMISTRY II. 5 hrs. II.
Continuation of Chemistry 357, 3 lec-6 lab.
PR: Chemistry 357, Mathematics 231.

361. INTRODUCTORY ORGANIC CHEMISTRY LAB. 2 hrs. I, II, S.
An introductory survey of experimental organic chemistry. 6 lab.
PR: Any two from 213, 214, 215, 216.

362. INTERMEDIATE ORGANIC CHEMISTRY LAB. 2 hrs. II, S.
Applications of modern experimental methods in organic chemistry, recommended for science majors. 6 lab.
PR: Chemistry 361.

390H-391H. HONORS IN CHEMISTRY. 1 hr. I, II, S.
Independent study programs for outstanding students.
PR: Permission of the department chairman.

401-402. RESEARCH FOR UNDERGRADUATES. 1-4; 1-4 hrs. I, II, S.
PR: Permission of instructor and department chairman.

410. ADVANCED SYNTHESIS AND ANALYSIS. 4 hrs.
Advanced problems in synthesis, separation and analysis with emphasis on modern instrumental methods. 2 lec-6 lab.
PR: Chemistry 356.

431-432. CHEMISTRY SEMINAR. Credit I, II.
A graduation requirement for all seniors enrolled in the B.S. in Chemistry program. 1 lec.

440. THERMODYNAMICS. 3 hrs.
An introduction to chemical thermodynamics and statistical mechanics. 3 lec.
PR: Chemistry 358.

448. ADVANCED INORGANIC CHEMISTRY I. 2 hrs.
A study of physical and chemical properties and periodic relationships of inorganic materials. 2 lec.
PR: Chemistry 327 or 355.

449. ADVANCED INORGANIC CHEMISTRY II. 2 hrs.
A detailed consideration of bonding, structure, reaction rates and equilibrium involving inorganic materials. 2 lec.
PR: Chemistry 448.

456. ADVANCED ANALYTICAL CHEMISTRY. 3 hrs.
Modern theories and methods of analysis with emphasis on instrumental methods. 2 lec-3 lab.
PR: Chemistry 345.
460. MOLECULAR SPECTROSCOPY. 3 hrs.
   A study of the emission and absorption of radiant energy and its
   relation to molecular structure. 3 lec.
   PR: Chemistry 358.

462. NUCLEAR CHEMISTRY AND PHYSICS. 3 hrs. II.
   An introduction to the phenomena of nuclear physics and
   chemistry. 3 lec.
   PR: Mathematics 231.

463. NUCLEAR CHEMISTRY AND PHYSICS LABORATORY.
   2 hrs. II, 4 lab.
   CR: Chemistry 462.

475. ADVANCED BIOCHEMISTRY. 3 hrs. I.
   Detailed studies of biochemical systems with emphasis on the
   structure and metabolism of representative compounds. 3 lec.
   PR: Chemistry 300 or consent of instructor.

476. ADVANCED BIOCHEMISTRY LABORATORY. 2 hrs. II.
   Laboratory methods for the preparation, purification and
   characterization of biochemical systems. 6 lab.
   PR: Chemistry 475.

480. QUANTUM MECHANICS. 3 hrs.
   An introductory course in quantum mechanics. 3 lec.
   PR: Mathematics 231.

482. ADVANCED ORGANIC CHEMISTRY I. 3 hrs. I.
   Studies of the dynamics of organic reactions with emphasis on
   mechanisms and stereochemistry. 3 lec.
   PR: Chemistry 356.

483. ADVANCED ORGANIC CHEMISTRY II. 3 hrs. II.
   A continuation of Chemistry 482 with emphasis on synthetic
   methods 3 lec.
   PR: Chemistry 482.

495H-496H. HONORS IN CHEMISTRY. 3-4: 3-4 hrs. I, II, S.
   Open only to chemistry majors of outstanding ability. Both courses
   must be taken to receive credit.
   See Honors Courses.

CLASSICAL STUDIES
Dr. Louise P. Iloy, Chairman

COLLEGE OF ARTS AND SCIENCES
(Division of Humanities)

Professor Iloy
Instructor Lloyd

Greek
(GRK)

201-202. ANCIENT GREEK FIRST YEAR. 3; 3 hrs. I, II.
301-302. ANCIENT INTERMEDIATE GREEK. 3; 3 hrs. I, II.
PR: Greek 202 or equivalent.

Latin
(LAT)

101-102. FIRST YEAR LATIN. 3; 3 hrs. I, II.

203-204. INTERMEDIATE LATIN. 3; 3 hrs. I, II.
Cicero's Orations; Vergil's Aeneid I-VI.
PR: Latin 102 or two units of high school Latin.

240. ELEMENTS OF PROSE COMPOSITION. 3 hrs. I.
PR: Latin 204 or 3 units of high school Latin.
The following courses are offered in a cycle of four years:
Prerequisites for all 300-400 courses: Latin 204 or three units high
school Latin.

306. SELECTIONS FROM HORACE. 3 hrs.

307. CICERO'S LETTERS. 3 hrs.

309. LIVY'S HISTORY OF ROME. 3 hrs.

312. TACITUS: ANNALS, GERMANIA. 3 hrs.

329. ELEGIAIC POETS: CATULLUS, TIBULLUS, PROPERTIUS, OVID.
3 hrs.

401. ROMAN LIFE: PLINY, MARTIAL, JUVENAL. 3 hrs.

402. VERGIL'S AENEID VII-XII. 3 hrs.

403. THE ROMAN STAGE: COMEDIES OF PLAUTUS AND TERENCE.
3 hrs.

450-451. SPECIAL TOPICS IN LATIN. 1-4; 1-4 hrs. I, II.

495H-496H. HONORS IN LATIN. 4;4 hrs. I, II.
Open only to Latin majors of outstanding ability. Both courses
must be taken for credit.
See Honors Courses.

Classics
(CL)

General humanities courses, taught in English, open to all students at the
academic level listed.

200. BUILDING ENGLISH VOCABULARY THROUGH LATIN AND
GREEK. 3 hrs.
Open to freshmen.

319. CLASSICAL MYTHOLOGY. 3 hrs. II.
321. ANCIENT GREEK LITERATURE (Taught in English). 3 hrs.
322. ANCIENT ROMAN LITERATURE (Taught in English). 3 hrs.
435. GREEK CIVILIZATION. 3 hrs. I.
436. ROMAN CIVILIZATION. 3 hrs. II.

EDUCATION

COLLEGE OF EDUCATION

ART EDUCATION

Listed under Art

COUNSELING AND REHABILITATION

(CR)

Dr. William A. Wallace, Chairman

COLLEGE OF EDUCATION

Professors Hess, Wallace
Associate Professor Dingman
Assistant Professors McDowell, Meadows

306. INTRODUCTION TO REHABILITATION. 3 hrs. I, II.
Introduction to the field of rehabilitation, various mental, physical and social disabilities, careers in rehabilitation, rehabilitation services and orientation process. Two clock hours per week of laboratory.
PR: Sophomore standing and permission of instructor
CR: Counseling and Rehabilitation 307.

307. INTRODUCTORY PRACTICUM IN REHABILITATION. 2 hrs. I, II.
Orientation to helping service agencies and practice in developing interviewing skills under professional supervision.
PR: Permission of instructor.
CR: Counseling and Rehabilitation 306.

406. REHABILITATION SERVICES - MEDICAL ASPECTS.
3 hrs. I, II.
A study of medical aspects of disability and the effective utilization of medical information in providing rehabilitation services.
PR: Counseling and Rehabilitation 306.

407. REHABILITATION PRACTICUM. 4 hrs. S.
Participation in rehabilitation process with a variety of handicapped individuals under supervision of cooperating agencies.
Senior standing, majors only and overall 2.0 average.

408. SPECIAL PROBLEMS IN REHABILITATION. 3 hrs. I, II.
A seminar study of the problems in rehabilitating special disability groups (mentally retarded, mentally ill, alcoholic, public offender.
disadvantaged) as well as research into these and other unmet needs in rehabilitation today.

PR: Counseling and Rehabilitation 406 and permission of instructor.

425. INTERVIEWING PROCEDURES. 3 hrs. I, II.
   Principles and practices of the interviewing relationship in helping service settings.
   PR: Permission of instructor.
   CR: Counseling and Rehabilitation 426.

426. ADVANCED PRACTICUM IN REHABILITATION. 2 hrs. I, II.
   Practical experiences in counseling interviews under professional supervision.
   PR: Permission of instructor.
   CR: Counseling and Rehabilitation 425.

482-483-484-485. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs. I, II, S.
   PR: Permission of department chairman.

490. PRINCIPLES AND PRACTICES OF GUIDANCE. 3 hrs. I, II, S.
   The objectives, principles, and practices of guidance.

CURRICULUM AND FOUNDATIONS
(CI)

Dr. Bernard Queen, Chairman

COLLEGE OF EDUCATION

Professors Jenkins, Queen
Associate Professors Bauer, Campbell, Collins, Fulks, Hale, Jervis, Koontz, Necco, Regula, Turner, Wellman
Assistant Professors Dailey, Dilley, Hall, Hanger, Harvey, Hunter Jarrett, Lewis, Morris, Nichols, Royer, Rummell, T. Smith, Sowards, Vass, Wright

101. MATHEMATICS EDUCATION: MATHEMATICS FOR ELEMENTARY TEACHERS, I. 3 hrs. I, II, S.
   Study of sets, logic, numeration systems, number systems, and number theory using an inquiry, laboratory oriented approach. (Laboratory work required.)

201. MATHEMATICS EDUCATION: MATHEMATICS FOR ELEMENTARY TEACHERS, II. 2 hrs. I, II, S.
   Study of the foundations of elementary mathematics in a laboratory setting emphasizing an inquiry and discovery approach; mathematical systems such as groups and fields, structure of the real number system, basic algebraic operations, simple analytical geometry, informal metric and non-metric geometry, probability, and statistics.
   PR: Curriculum and Instruction 101. (Laboratory work required)

203. CHILDREN'S LITERATURE. 3 hrs. I, II, S.
   Types of poetry and prose appropriate for elementary school pupils, with emphasis on methods of presentation.
   May not be used as elective to meet requirements of English major in College of Arts and Sciences.
   PR: English 102 or 201H.
300. **MATHEMATICS EDUCATION: TEACHING ELEMENTARY SCHOOL MATHEMATICS.** 2 hrs. I, II, S.
Investigation of techniques and approaches to helping children learn mathematics with special emphasis on the use of manipulative materials in a laboratory setting.
PR: Curriculum and Instruction 201. (Laboratory work required.)

307. **SCIENCE EDUCATION: SCIENCE IN THE ELEMENTARY SCHOOL.**
3 hrs. I, II, S.
Practical application of modern methods and media in helping children learn more about the earth, physical, and biological sciences.
PR: Six hours of biological or physical science.

320. **SPECIAL EDUCATION: SURVEY OF 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.

367. **EARLY CHILDHOOD EDUCATION: ORGANIZATION AND ADMINISTRATION.** 3 hrs. I, II.
An overview of the development of early childhood education, related research, pre-primary program models, elementary school organizational patterns, program planning and techniques of working with parents.
PR: Educational Foundations 319; Home Economics 303.

400. **ELEMENTARY EDUCATION.** 2-4 hrs. I, II, S.
The learning environment of the elementary school, problems directly related to student teaching including methods in teaching science, social studies, the language arts and general teaching learning strategies.
PR: Educational Foundations 319
CR: Curriculum and Instruction 405.

405. **ELEMENTARY EDUCATION: SUPERVISED STUDENT TEACHING.**
4-8 hrs. I, II, S.
All-day teaching under supervision in cooperating public schools.
PR: Curriculum and Instruction 443.
CR: Curriculum and Instruction 400.

409. **EARLY CHILDHOOD EDUCATION: EARLY CHILDHOOD CURRICULA.** 3 hrs. I, II, S.
Relationship of the kindergarten-elementary school curricula to child growth and development. Recent trends in curriculum organization and adapting curriculum content and methods to maturity levels of children.
PR: Educational Foundations 319, Curriculum and Instruction 367.
CR: Curriculum and Instruction 410.

410. **EARLY CHILDHOOD EDUCATION: SUPERVISED STUDENT TEACHING.**
8 hrs. I, II, S.
Practicum for students majoring in early childhood education. All-day teaching under supervision in kindergarten and elementary schools.
PR: Educational Foundations 319, Curriculum and Instruction 367.
CR: Curriculum and Instruction 409.
421. SPECIAL EDUCATION: BEHAVIORAL CHARACTERISTICS OF EXCEPTIONAL CHILDREN. 3 hrs. I, S.
Behavioral characteristics of children with exceptional development, dynamics of family-community interaction, and attitudes towards exceptional conditions. Implications for amelioration and educational planning.

422. SPECIAL EDUCATION: INTRODUCTION TO EDUCATION OF DISADVANTAGED. 3 hrs. S.
Analysis and exploration of causes of difficulties that accompany the disadvantaged learner. Strategies for structuring learning experiences according to needs will be considered.

423. 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: Cl 320.

424. 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: Cl 320.

425. SPECIAL EDUCATION: ADVANCED CURRICULUM DEVELOPMENT FOR EXCEPTIONAL CHILDREN. 3 hrs. I, II, S.
PR: Cl 320 and 444.

433. SPECIAL EDUCATION: INTRODUCTION TO MENTAL RETARDATION. 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 320 or permission of department chairman.

440. 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: Educational Foundations 319, Curriculum and Instruction 320 433, and 443.

441. 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.
PR: Educational Foundations 319.

443. ELEMENTARY EDUCATION: TEACHING READING IN
ELEMENTARY SCHOOLS. 3 hrs.
Presenting modern techniques and practices in the teaching of reading. Field experience in a school setting is required.
PR: Educational Foundations 319.

444. SPECIAL EDUCATION: CHARACTERISTICS OF CRIPPLED CHILDREN. 3 hrs. I, II, S.
Psychological, social, emotional and educational problems which may accompany crippling conditions, hospitalized and homebound.
PR: Curriculum and Instruction 320.

445. SECONDARY EDUCATION: TEACHING READING IN SECONDARY SCHOOLS. 3 hrs. I, II, S.
Principles underlying the teaching of reading in junior and senior high schools.
PR: Educational Foundations 319 or permission of department chairman.

446. READING EDUCATION: INDIVIDUAL ASSESSMENT AND PRESCRIPTION IN READING INSTRUCTION. 3 hrs.
Study of the causes of reading difficulties, assessment devices and techniques, and prescriptive methods and materials.
PR: Curriculum and Instruction 443 or 445.

450. SECONDARY EDUCATION: SUPERVISED STUDENT TEACHING. 3-8 hrs. I, II, S.
All-day teaching under supervision in cooperating public schools.
PR: Methods in teaching area.

453. 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 curriculums for the mentally retarded. Methods and materials are presented in relation to this development.
PR: Curriculum and Instruction 320 and 433 or permission of department chairman.

460-461. SCIENCE EDUCATION: SPECIAL PROBLEMS. 1-3 hrs. I, II, S.
By permission of department chairman.
PR: Junior and senior standing.

467. SECONDARY EDUCATION: TEACHING SOCIAL STUDIES. 3 hrs. I, II, S.
Survey of materials and methods for teaching social studies. Field experience in a school setting is required.
PR: Educational Foundations 319.

468. SECONDARY EDUCATION: TEACHING ART. 3 hrs. I, II.
Survey of materials and methods for teaching art. Field experience in a school setting is required.
PR: Educational Foundations 319.

469. SECONDARY EDUCATION: TEACHING BUSINESS EDUCATION. 3 hrs. I, II, S.
Survey of materials and methods for teaching business subjects. Field experience in a school setting is required.
PR: Educational Foundations 319.
470. SECONDARY EDUCATION: TEACHING ENGLISH. 3 hrs. I, II.
Survey of materials and methods for teaching English. Field experience in a school setting is required.
PR: Educational Foundations 319.

471. SECONDARY EDUCATION: TEACHING FOREIGN LANGUAGES. 
3 hrs. I.
Survey of materials and methods for teaching the languages. Field experience in a school setting is required.
PR: Educational Foundations 319.

472. SECONDARY EDUCATION: TEACHING MATHEMATICS. 
3 hrs. I, II.
Survey of materials and methods for teaching mathematics. Field experience in a school setting is required.
PR: Educational Foundations 319.

473. SECONDARY EDUCATION: TEACHING PHYSICAL EDUCATION. 
3 hrs. I, II.
Survey of materials and methods for teaching physical education in grades 7-12 (men and women). Field experience in a school setting is required. (men and women).
PR: Educational Foundations 319.

474. SECONDARY EDUCATION: TEACHING THE SCIENCES. 
3 hrs. I, II.
Survey of materials and methods for teaching the sciences. Field experience in a school setting is required.
PR: Educational Foundations 319.

475. SECONDARY EDUCATION. 2-4 hrs. I, II, S.
Philosophy of teaching in the secondary school, curriculum planning, philosophy of education, and teaching of reading.
PR: Educational Foundations 319
CR: Curriculum and Instruction 450.

476. SECONDARY EDUCATION: TEACHING SPEECH. 3 hrs. I, II.
Survey of materials and methods for teaching speech. Field experience in a school setting is required.
PR: Educational Foundations 319.

482-483-484-485. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs. I, II, S.

495. SPECIAL EDUCATION: CLINICAL IMPLICATIONS OF Crippling CONDITIONS. 3 hrs. II, S.
Etiological aspects, psychological overtones and educational implications of the study of crippling and other health impairing conditions. Concern for hospitalized, homebound, and special health problems. (Observation and activity).
PR: Curriculum and Instruction 320 and consent of instructor.

496. 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 320, 443 and 444.
MARSHALL UNIVERSITY

CYTOTECHNOLOGY
(CYT)

Dr. Howard L. Mills, Director

COLLEGE OF BUSINESS AND APPLIED SCIENCE

Clinical Professors Werthammer, Sadler
Associate Clinical Professor Shchils
Clinical Assistant Professor Eads

431. CYTOLOGICAL METHODOLOGY. 6 hrs. I.
Routine and special methods in cytology including specimen processing. Clinical microscopy including routine and special microscopic methods using dark field, phase and polarized light techniques.

432. ELEMENTARY CYTOLOGY. 6 hrs. I.
General and specific fundamentals of cytology for determining cell structure and embryology, including the cytology of specialized tissue.

433. GENITAL CYTOLOGY. 6 hrs. II.
Cytology in health and disease of the female genital tract. Endocrinological considerations.

434. NONGENITAL CYTOLOGY. 6 hrs. II.
Cytology in health and disease of respiratory, urinary and gastrointestinal tracts.

435. CYTOLOGY OF SOME GLAND SECRETIONS, EXUDATES AND TRANSUDATES. 5 hrs.
Breast secretions, fluids from serous cavities, etc.

436. ADVANCED METHODS IN CYTOLOGY. 3 hrs. S.
Elementals of tissue culture, chromosome analysis and photomicrography.

437. SEMINAR. 1 hr. S.
Record keeping, follow-up, administration and professional relations.

ECONOMICS
(ECN)

Dr. Joseph S. La Cascia, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professor La Cascia
Associate Professors Akkhal, Cook, Corrie
Assistant Professors Kontos, Pathak

100. INTRODUCTION TO ECONOMICS. 3 hrs.
Offers a rudimentary conception of economic theory, contemporary issues and problems in economics by approaching from an issue and problem standpoint.
241. **PRINCIPLES OF ECONOMICS.** 3 hrs. I, II, S.
Production, exchange and distribution of wealth and income in capitalistic economy. Open to Freshmen.

242. **PRINCIPLES OF ECONOMICS.** 3 hrs. I, II, S.
Production, exchange and distribution of wealth and income in capitalistic economy. Open to Freshmen.

300. **SURVEY OF ECONOMICS.** 3 hrs.
The principles course in one semester for designated students in the College of Education.

310. **MONEY AND BANKING.** 3 hrs. I, II, S.
Money, credit and credit institutions in the United States; monetary, fiscal, and banking functions of the Federal Reserve System.
PR: Economics 241-242, 300 or equivalent.

326. **INTERMEDIATE MACROECONOMIC ANALYSIS.** 3 hrs.
National income accounting; macro-economic theories of output determination, employment, inflation, and growth; monetary and fiscal policies.
PR: Economics 241-242, 300 or equivalent.

328. **INTERMEDIATE MICROECONOMIC ANALYSIS.** 3 hrs.
Micro-economic theories of the production and pricing of goods and services, payments to the factors of production.
PR: Economics 241-242, 300 or equivalent.

342. **ECONOMIC DEVELOPMENT OF THE UNITED STATES.** 3 hrs.
History of the economy; political-economic determinants of growth patterns; the evolution of corporations, unions, and other institutions.
PR: Economics 241-242 or equivalent.

346. **LABOR PROBLEMS.** 3 hrs.
Ideologies, organizations, and policies of labor and management; impact of labor-management relations on the political economy.
PR: Economics 241-242, 300 or equivalent, or consent of the instructor.

348. **LABOR AND GOVERNMENT.** 3 hrs.
Relationships between labor and government; economic results of laws affecting labor-management relations.
PR: Economics 241-242, 300 or equivalent, or consent of the instructor.

351. **GOVERNMENT AND BUSINESS.** 3 hrs.
Business ideologies and organizations; the business system within the economy; anti-trust and other laws.
PR: Economics 241-242, 300 or equivalent, or consent of the instructor.

356. **COLLECTIVE BARGAINING PROBLEMS.** 3 hrs.
Contract negotiation and administration at plant and industry levels.
PR: Economics 241-242, 300 or equivalent, or consent of the instructor.

408. **COMPARATIVE ECONOMIC SYSTEMS.** 3 hrs.
Marxism, capitalism, communism, fascism and socialism considered as theories, movements and actual political economies.

PR: Economics 241-242, 300 or equivalent.

415. REGIONAL ECONOMICS. 3 hrs.
   A study of location theory and regional development within a framework of economic theory.
   PR: Economics 241-242, or 300 or equivalent.

420. INTERNATIONAL ECONOMICS. 3 hrs.
   Movement of goods and balance of payments among nations; exchange rates; exchange controls and tariffs; problems and policies.
   PR: Economics 241-242, 300 or equivalent.

422. INTRODUCTION TO MATHEMATICAL ECONOMICS. 3 hrs.
   Modern mathematical methods for use in economics and other social sciences.
   PR: Economics 241-242, Mathematics 120 or equivalent.

423. 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.
   PR: Economics 241, 242, Mgt. 318, and Math 120 or equivalent.

430. MANAGERIAL ECONOMICS. 3 hrs.
   The use of economic principles by management; pricing, sales policies, budgeting, forecasting, inter-firm relations.
   PR: Economics 241-242, 300 or equivalent.

440. HISTORY OF ECONOMIC THOUGHT. 3 hrs.
   Economic theories and ideas from the earliest economists to those of Marshall and Keynes.
   PR: Economics 241-242, 300 or equivalent.

446. 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.
   PR: Economics 310 or equivalent.

450. 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.
   PR: Economics 241, 242 or equivalent.

460. 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.

461. ECONOMIC EDUCATION WORKSHOP. 3 hrs. S.
   Intensive review of subject matter and teaching methods in economics designed for elementary and high school teachers.
   PR: Consent of instructor or grant of scholarship.
471-472. 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, senior standing, and consent of the instructor.

480. 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.
PR: Economics 241, 242 or equivalent.

481-482. 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, senior standing, and consent of the instructor, department chairman, and the student’s academic dean.

495H-496H. READINGS FOR HONORS IN ECONOMICS. 4; 4 hrs., I, II.
Open only to economics majors of outstanding ability. Both courses must be taken in order to receive credit.
See Honors Courses, page 50.

EDUCATIONAL FOUNDATIONS
(EDF)
Dr. Harold Willey, Director
COLLEGE OF EDUCATION
Professors Arhelger, Irvin, Khatena, Lichtenstein, Willey
Associate Professors Simpkins, Williams
Assistant Professors Barker, Broadwater, Harless, Plymale, Smith

218. HUMAN DEVELOPMENT. 3 hrs. I, II, S.
A basic course in the study of children’s emotional, social, mental, and physical development. Field experience required.
PR: Sophomore standing.

319. HUMAN DEVELOPMENT (TEACHING AND LEARNING).
3 hrs. I, II, S.
A study of the psychological principles which are the foundation for learning and teaching.
PR: Educational Foundations 218 and junior standing (58 semester hours).

406. FOUNDATIONS OF EDUCATION. 3 hrs. I, II, S.
A survey of the historical, philosophical and sociological foundations of American education with emphasis upon current educational problems and issues.
PR: Junior standing (58 semester hours).
415. 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.

435. TESTS AND MEASUREMENTS. 3 hrs. I, II, S.
History, philosophy and elementary statistical methods for testing, measuring and evaluating pupil behavior are studied.
PR: Educational Foundations 319.

EDUCATIONAL MEDIA (EDM)

Professor Walter C. Felty, Chairman

COLLEGE OF EDUCATION

Associate Professors Felty, Theis
Assistant Professors Plumley, Terry
Departmental Assistant Lake

301. THE TEACHER AND LIBRARY SERVICE. 3 hrs. I.
A study of the resources of the library and how to use them effectively with emphasis upon the study of books and magazines for young people.

310. THE ORGANIZATION AND ADMINISTRATION OF SCHOOL LIBRARIES. 3 hrs. I, S.
Principles of administration for elementary and secondary school materials centers, including schedules, routines, library housing, publicity, student assistants, equipment, handling of audiovisual aids; weeding; repair and binding of books; professional organizations and literature, with definite instruction on teaching the use of books and libraries.

315. REFERENCE AND BIBLIOGRAPHY. 3 hrs. II, S.
Study of the basic reference sources for elementary and secondary school libraries with practice in evaluation and use of these materials; practical experience in the construction of bibliographies.

320. CATALOGING AND CLASSIFICATION. 3 hrs. I, S.
Fundamentals of cataloging and classification by the Dewey Decimal System, including use of related aids, printed cards and special adaptations of the school library catalog, combined with practical experience in processing the various types of books and materials. Includes some attention to non-print materials.
PR: Skill in typing.

401. HISTORY OF BOOKS AND LIBRARIES. 3 hrs. II.
Overview of library development from classical world to the present as well as a survey of the development of books, printing and writing.

404. BOOK SELECTION FOR CHILDREN. 3 hrs. II.
Survey of the development of children's literature and emphasis on modern books; evaluation of the aids and standards for selection of books and materials in this area; techniques of determination of reading levels and study of reading skills; study and comparison of the work of
illustrators of children's books and various editors of individual titles: techniques of story-telling.

405. 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.

410. FOUNDATIONS OF MASS COMMUNICATIONS. 3 hrs. I, S.
Survey of social and psychological causes and effects of reading and mass communications (newspapers, magazines, radio, motion pictures, television) with reference to their importance to the school librarian, educational media directors and other communication professionals.

450. LIBRARY PRACTICE (Field Work). 3-5 hrs. I, II, S.
Practical experience in the application of techniques of library service, adapted as far as possible to the student's needs.
PR: Fifteen hours of library science.
CR: Curriculum and Instruction 450, except for students in a Comprehensive Subject Specialization or the Elementary Education program.
NOTE: Students must file an application for permission to enroll in Library Practice. Applicants follow the same procedure as prescribed for Student Teaching.

465. UTILIZATION OF EDUCATIONAL MEDIA. 3 hrs. I, II, S.
Utilization of educational media materials, equipment and techniques.

466. PRODUCTION OF AUDIOVISUAL AIDS. 3 hrs. I, S.
Basic techniques in making slides, photographs, dry and wet mountings, transparencies, posters and similar graphic instructional materials.

482. SPECIAL TOPICS. 1-4 hrs. I, II, S.

HOME ECONOMICS EDUCATION
Listed under Home Economics

MATHEMATICS EDUCATION
Listed under Curriculum and Instruction

MUSIC EDUCATION
Listed under Music

ENGLISH
(ENG)
Chairman

COLLEGES OF ARTS AND SCIENCES
(Division of Humanities)
Professors Brown, Mitchell, Sullivan, Tyson, Williams
Associate Professors Adkins, Chapman, Fei, Gerke, Hart, Phillips, Pittman, Putz, Stooke, Thorn, Wooden
Assistant Professors Bailey, Deutsch, Duke, Lenning, Marsteller, McKernan, Nordeen, Plybon, Ramsey, Sawanieswki, Stickman, Teel, Ten Harmsel, Valentine, Virgalliro, Waldron, Wells
Instructors Ardinger, McClellan, Taylor,

Advanced placement in English is granted on the basis of the Educational Testing Service (ETS) Advanced Placement Test scores (see p. 19). Students who score five or four in English are given credit for English 101 and 102. Students who score three are referred to the chairman of the Department of English for a decision: credit may be given for English 101 or for both 101 and 102.

100. PREPARATORY ENGLISH. 3 hrs. I, II, S.
    Remedial work in English, with emphasis on skills of writing and reading.
    Entrance scores in English determine whether the student enrolls in English 100 or 101. The graduation requirement is increased three hours for students assigned to English 100.

101-102. ENGLISH COMPOSITION. 3: 3 hrs. I, II, S.
    Fundamentals of English usage, with practice in theme writing based on library research, dictionary study, and selected readings.
    PR: for 101: Satisfactory entrance scores in English, or English 100.
    PR for 102: English 101.

201H. ENGLISH COMPOSITION HONORS. 3 hrs. I.
    An accelerated course for specially selected freshmen. Completion of 201H satisfies the university requirement in freshman composition. Students completing the course are awarded three additional hours of credit toward graduation.

300. ENGLISH LITERATURE. 3 hrs. I, II, S.
    Study of the works of major authors from the beginnings to the present, including Chaucer, Shakespeare, Milton, Pope, Wordsworth, Coleridge, Keats, and Eliot.
    PR: English 102 or 201H. Not to be scheduled with English 301.

301. AMERICAN LITERATURE. 3 hrs. I, II, S.
    Study of the works of major authors from the beginning to the present, including Hawthorne, Poe, Emerson, Thoreau, Whitman, Twain, O’Neill, Faulkner, and Frost.
    PR: English 102 or 201H. Not to be scheduled concurrently with English 300 except with special permission of the chairman of the department.

307. MODERN DRAMA. 3 hrs.
    British and American plays since 1870, with their backgrounds in foreign literatures.
    PR: English 102 or 201H.

310. BIOGRAPHY. 3 hrs. I, II, S.
    British, American, and world literature as seen through selected major biographies. The study of biography as a literary type.
    English 102 or 201H.
318. TYPES OF POETRY. 3 hrs.
Selected works from early examples to the present.
PR: English 102 or 201H.

325. SHAKESPEARE. 3 hrs. I, II, S.
The major comedies, tragedies, and histories.
PR: 6 hours beyond English 102 or 201H.

329. TWENTIETH CENTURY NOVEL. 3 hrs.
Criticism and analysis of principal British and American novels since 1900.
PR: English 102 or 201H.

331. THE SHORT STORY. 3 hrs.
Criticism and analysis of representative short stories, British and American.
PR: English 102 or 201H.

340. BLACK LITERATURE. 3 hrs.
Major types and writers, chiefly American.
PR: English 102 or 201H.

360. CREATIVE WRITING. 3 hrs.
An introduction to the writing of fiction and poetry. Open only on permission of the instructor.
PR: English 102 or 201H.

377. CREATIVE COMPOSITION: POETRY. 3 hrs.
Practice in writing the literary forms.
PR: 6 hours beyond English 102 or 201H.

378. CREATIVE COMPOSITION: PROSE. 3 hrs.
Practice in writing the literary forms.
PR: 6 hours beyond English 102 or 201H.

405. STUDY OF THE ENGLISH LANGUAGE. 3 hrs. I, II, S.
Growth, structure, and present usage of the English language.
PR: 6 hours beyond English 102 or 201H.

408. ADVANCED EXPOSITORY WRITING. 3 hrs. II.
Reports, theses, briefs, abstracts and other expository types. Adapted to the needs of the individual student.
PR: 6 hours beyond English 102 or 201H.

409. MILTON. 3 hrs.
Biographical and critical study, including Milton's English poetry and prose.
PR: 6 hours beyond English 102 or 201H.

411. CHAUCER. 3 hrs.
Background and influences, with biographical and critical study.
PR: 6 hours beyond English 102 or 201H.

412. STUDY OF POETRY. 3 hrs.
Theory and prosody, and principal types, forms, and themes.
PR: 6 hours beyond English 102 or 201H.
413. **ENGLISH NOVEL TO 1800.** 3 hrs.
Defoe, Richardson, Fielding, Smollett, and Sterne, with supporting study of their most important predecessors and contemporaries.
PR: 6 hours beyond English 102 or 201H.

415. **VICTORIAN POETRY.** 3 hrs.
PR: 6 hours beyond English 102 or 201H.

417. **ENGLISH DRAMA TO 1642.** 3 hrs.
Non-Shakespearean English drama from its beginning to the closing of the theatres.
PR: 6 hours beyond English 102 or 201H.

420. **SENIOR SEMINAR IN LITERATURE.** 3 hrs. I, II, S.
Advanced study of forms and movements. Individual research required. Limited to English majors with senior class standing.
PR: 6 hours beyond English 102 or 201H.

433. **CONTEMPORARY ENGLISH POETRY.** 3 hrs.
Principal poetry since the Victorian period.
PR: 6 hours beyond English 102 or 201H.

434. **CONTEMPORARY AMERICAN POETRY.** 3 hrs.
Principal poetry since 1900.
PR: 6 hours beyond English 102 or 201H.

436. **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.
PR: 6 hours beyond English 102 or 201H.

437. **ENGLISH NON-DRAMATIC LITERATURE OF THE SIXTEENTH CENTURY.** 3 hrs.
Non-dramatic prose and poetry of the period.
PR: 6 hours beyond English 102 or 201H.

438. **ENGLISH NON-DRAMATIC LITERATURE OF THE EARLY SEVENTEENTH CENTURY.** 3 hrs.
Non-dramatic prose and poetry.
PR: 6 hours beyond English 102 or 201H.

440. **AMERICAN LITERATURE FROM 1800 TO 1855.** 3 hrs.
PR: 6 hours beyond English 102 or 201H.

441. **AMERICAN LITERATURE FROM 1855 TO 1925.** 3 hrs.
PR: 6 hours beyond English 102 or 201H.

442. **AMERICAN NOVEL TO 1900.** 3 hrs.
Historical and critical study from the beginnings.
PR: 6 hours beyond English 102 or 201H.

446. **DRAMA OF THE RESTORATION AND 18TH CENTURY.** 3 hrs.
Trends, movements, and dramatic types in the English theatre of this period.
PR: 6 hours beyond English 102 or 201H.

447. **ENGLISH ROMANTIC POETS.** 3 hrs.
Emphasis on Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.
PR: 6 hours beyond English 102 or 201H.

450. WORLD LITERATURE TO THE RENAISSANCE. 3 hrs. I, II.
Major works (excluding English), with emphasis on Homer, the Greek drama, Vergil, Dante, and Cervantes.
PR: 6 hours beyond English 102 or 201H.

451. WORLD LITERATURE SINCE THE RENAISSANCE. 3 hrs. I, II.
Major works (excluding English and American), with emphasis on Racine, Moliere, Goethe and principal continental fiction.
PR: 6 hours beyond English 102 or 201H.

455. LITERARY CRITICISM. 3 hrs.
Historical study, with application of principles.
PR: 6 hours beyond English 102 or 201H.

460. ENGLISH LITERATURE FROM 1660 TO 1745. 3 hrs.
Dryden, Swift, Pope, and their contemporaries.
PR: 6 hours beyond English 102 or 201H.

461. ENGLISH LITERATURE FROM 1745 TO 1800. 3 hrs.
Major literature of the Age of Johnson.
PR: 6 hours beyond English 102 or 201H.

475. INTRODUCTION TO LINGUISTICS. 3 hrs. I, II.
The structural and descriptive approach to study of the English language.
PR: 6 hours beyond English 102 or 201H.

476. MODERN GRAMMAR. 3 hrs.
A descriptive analysis of the structure of present day American English, utilizing the basic theory of generative transformational grammar.
PR: English 475.

480-481-482-483. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs.

495H-496II. READINGS FOR HONORS IN ENGLISH. 2-4; 2-4 hrs. I, II, S.
Not less than six hours total credit.
Open only to English majors of outstanding ability. Both courses must be taken in order to receive credit. Possible study areas include world literature, modern literature, works of individual authors, etc.
See Honors Courses, page 50.

ENGINEERING
Professor Samuel T. Stinson, Chairman

COLLEGE OF BUSINESS AND APPLIED SCIENCE

Professor Stinson
Assistant Professors Chen, Olson, Smith

CIVIL ENGINEERING
(CE)
200. SURVEYING. 5 hrs. (First Term)
   Field work with transit, tape and stadia. Field astronomy,
   triangulation, office computations and plotting.
   PR: Mathematics 131 and General Engineering 101.

300. ROUTE SURVEYING. 3 hrs. II.
   Simple compound, spiral and vertical curves, and earth work. 1
   lec-2 lab.
   PR: Civil Engineering 200 and General Engineering 203.

301. THEORY OF STRUCTURES I. 3 hrs. I.
   Analysis of statically determinate structures. 3 lec.
   PR: General Engineering 203.
   PR or CR: Engineering Mechanics 300.

302. THEORY OF STRUCTURES II. 3 hrs. II.
   Continuation of Civil Engineering 301. Analysis of statically
   indeterminate structures. 3 lec.
   PR: Civil Engineering 301.
   PR or CR: Mathematics 335.

303. SOIL MECHANICS. 3 hrs. II.
   Mechanics and properties of soils. 2 lec-3 lab.

400. TRANSPORTATION ENGINEERING. 3 hrs. I.
   Location, design, construction, and maintenance of highways,
   streets, railroads, and airports: planning and economic considerations. 3
   lec.

401. REINFORCED CONCRETE DESIGN. 3 hrs. I.
   Design of structures and structural members of reinforced and
   prestressed concrete. 2 lec-3 lab.

402. STRUCTURAL DESIGN. 3 hrs. II.
   Design of structures and structural elements of steel and timber. 2
   lec-3 lab.

403. ENGINEERING HYDROLOGY. 2 hrs. I.
   Rainfall stream flow and groundwater; control and utilization of
   water resources. 2 lec.

404. HYDRAULIC ENGINEERING. 3 hrs. II.
   Analysis and design of hydraulic components of engineering
   projects and structures for water control. 3 lec.
   PR: Civil Engineering 403.

405. SANITARY ENGINEERING I. 3 hrs. I.
   Water treatment and supply. 3 lec.
   PR or CR: Civil Engineering 403.

406. SANITARY ENGINEERING II. 3 hrs. II.
   Sewage and sewage treatment. 3 lec.
420. PROTECTIVE CONSTRUCTION. 3 hrs. I.
 Fallout shelter analysis and design, structural dynamics, and blast resistant design. 3 lec.
 PR or CR: Civil Engineering 401.

ELECTRICAL ENGINEERING

(EE)

300. BASIC ELECTRICAL ENGINEERING. 3 hrs. I.
 For students in curriculums other than electrical engineering. Fundamentals of electric and magnetic circuits. 3 lec.
 PR: General Engineering 103 and Physics 213 and 214.
 PR or CR: Mathematics 231.

301. CIRCUITS I. 3 hrs. I.
 Analysis of electric circuits of intermediate complexity; determination of the complete response to first or second order systems. 3 lec.
 PR or CR: Mathematics 231.

302. CIRCUITS II. 3 hrs. II.
 Continuation of Electrical Engineering 301, including solution of networks by location of poles and zeros in the complex frequency plane. 3 lec.
 PR: Electrical Engineering 301, General Engineering 203.
 PR or CR: Mathematics 335.

304. ELECTRICAL MEASUREMENTS LABORATORY I. 1 hr. II.
 Electrical measurements and applications of circuit theory. 3 lab.
 PR or CR: Electrical Engineering 302.

401. CIRCUITS III. 3 hrs. I.
 Continuation of Electrical Engineering 304, including resonance, polyphase systems, and Fourier analysis. 3 lec.
 PR: Electrical Engineering 302.

402. ELECTRONIC CIRCUITS. 3 hrs. II.
 PR: Electrical Engineering 302.
 PR or CR: Electrical Engineering 304.

403. ELECTRICAL MEASUREMENT LABORATORY II. 1 hr. I.
 Continuation of Electrical Engineering 304, 3 lab.
 PR: Electrical Engineering 304.
 PR or CR: Electrical Engineering 401.

404. ELECTRONICS LABORATORY. 2 hrs. II.
 Design, construction, and testing of electronic devices and circuits. 6 lab.
 PR: Electrical Engineering 304.
 PR or CR: Electrical Engineering 402.
300. MECHANICS OF MATERIALS II. 3 hrs. I, II.
Continuation of Engineering Mechanics 202. 3 lec.

301. FLUID MECHANICS. 4 hrs. I, II.
Principles of hydrostatics and hydrodynamics. 3 lec-3 lab.

302. ENGINEERING MATERIALS SCIENCE. 3 hrs. I, II.
Properties of engineering materials and materials testing. 2 lec-3 lab.

GENERAL ENGINEERING (GE)

300. ENGINEERING ECONOMY. 3 hrs. II.
Investment mathematics, depreciation, economic selection of machines, structures, and processes. 3 lec.
PR: Junior standing and consent of instructor.

301. ENGINEERING SEMINAR I. Credit. I
Presentation of reports and technical papers. 1 lec.

302. ENGINEERING SEMINAR II. Credit. II.
Continuation of General Engineering 301. 1 lec.

400. ENGINEERING REPORT WRITING. 2 hrs. I.
Technical reports, business letters. 2 lec.
PR: Senior standing and consent of instructor.

401. ENGINEERING SOCIETY I. Credit. I.
Industrial safety. Presentation of reports and technical papers. 1 lec.
PR: Senior standing.

402. ENGINEERING SOCIETY II. Credit II.
History of the engineering profession. Presentation of reports and technical papers. 1 lec.
PR: Senior standing.

403. ENGINEERING PRACTICE. 2 hrs. II.
Engineering law, contracts, specifications, ethics, and current professional problems. 2 lec.
PR: Senior standing.

480-481. DIRECTED RESEARCH. 1-4; 1-4 hrs. I, II.
Original investigations of special topics.
PR: Senior standing.

MECHANICAL ENGINEERING (ME)

301. MACHINE DESIGN I. 3 hrs. I.
Design of machine elements. 3 lec.
PR or CR: Engineering Mechanics 300.

302. MACHINE DESIGN II. 3 hrs. II.
Continuation of Mechanical Engineering 301 including design of a complete machine. 1 lec-6 lab.
PR: General Engineering 203, Mechanical Engineering 301.
PR or CR: Mathematics 335, Engineering Mechanics 301.

303. THERMODYNAMICS I. 3 hrs. 1.
Basic laws of thermodynamics and their application. 3 lec.

304. THERMODYNAMICS II. 3 hrs. II.
Continuation of Mechanical Engineering 303, 3 lec.
PR: Mechanical Engineering 303.
PR or CR: Engineering Mechanics 301.

306. MECHANICAL ENGINEERING LABORATORY. 2 hrs. II.
Mechanical engineering measurements laboratory. 6 lab.
PR or CR: Mechanical Engineering 304.

401. HEAT AND MASS TRANSFER. 3 hrs. I.
Basic principles of heat transmission and mass transfers. 3 lec.

410. MECHANICAL VIBRATIONS. 3 hrs. I.
Vibrations of rotating and reciprocating machines. 3 lec.

420. CREATIVE DESIGN. 3 hrs. II.
Design of engineering systems and projects. 1 lec-6 lab.

FINANCE AND BUSINESS LAW
(FIN)

Dr. N. Paul Bromley, Chairman

COLLEGE OF BUSINESS AND APPLIED SCIENCE

Associate Professors Cole, Cyrus, Bromley
Assistant Professors Kirschten, Wiswell
Instructors Crabb, Stone

307. PRINCIPLES OF BUSINESS LAW. 3 hrs. 1, II, S.
Survey of common law and recent legislation (UCC) relative to contracts, sales, agency and partnerships.

308. ADVANCED BUSINESS LAW. 3 hrs. 1, II, S.
PR: Finance 307.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Terms</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>323</td>
<td>PRINCIPLES OF BUSINESS FINANCE</td>
<td>3 hrs</td>
<td>I, II, S.</td>
<td>Business finance from viewpoint of business manager; use of financial statements, tools, and concepts for measuring and planning for profitability and liquidity. PR: Economics 242, Accounting 216.</td>
</tr>
<tr>
<td>324</td>
<td>ADVANCED FINANCIAL ANALYSIS AND PLANNING</td>
<td>3 hrs</td>
<td>I, II, S.</td>
<td>Financial planning, working capital management, capital budgeting, dividend policy and comprehensive problems. PR: Finance 323.</td>
</tr>
<tr>
<td>327</td>
<td>LIFE AND HEALTH INSURANCE</td>
<td>3 hrs</td>
<td>I, S.</td>
<td>Legal facets of life and health insurance; the insurance contract; risk selection; programming; mathematics of life and health insurance; group insurance; business uses of life insurance.</td>
</tr>
<tr>
<td>329</td>
<td>PROPERTY AND LIABILITY INSURANCE</td>
<td>3 hrs</td>
<td>I, II.</td>
<td>Principles and legal facets of risk management in fire and marine; business and personal liability; allied lines; and automobile insurance, with emphasis on the fire, liability, and automobile insurance contracts.</td>
</tr>
<tr>
<td>335</td>
<td>SOCIAL INSURANCE</td>
<td>3 hrs</td>
<td>II.</td>
<td>Coverage and limitations of social insurance; social security; workman's compensation; unemployment insurance; medicare, medicaid; integration with private insurance.</td>
</tr>
<tr>
<td>430</td>
<td>PRINCIPLES OF REAL ESTATE</td>
<td>3 hrs</td>
<td>I.</td>
<td>A broad study of the principles of real estate investment including a real estate valuation procedures, real estate development and urban economics. The course is designed to be general and somewhat legalistic and is not intended to train but rather to educate students interested in one or more of the broad areas of urban economics.</td>
</tr>
<tr>
<td>434</td>
<td>PRINCIPLES OF INVESTMENT</td>
<td>3 hrs</td>
<td>I, II, S.</td>
<td>A study of the risks and returns of investment media in relation to the primary investment objectives of the investors. PR: Finance 323.</td>
</tr>
<tr>
<td>435</td>
<td>MONEY MARKETS AND CAPITAL FORMATION</td>
<td>3 hrs</td>
<td>II.</td>
<td>An in-depth study of federal monetary theory and practices, as well as federal fiscal policies. More emphasis will be placed on the activities of financial institutions than on single businesses or on individual investors. Included in the capital market area is the study in some depth of the operations of registered securities exchanges, the over-the-counter market, and the third market. PR: Finance 323.</td>
</tr>
<tr>
<td>495H-496H</td>
<td>READINGS FOR HONORS IN FINANCE</td>
<td>2-4 hrs</td>
<td></td>
<td>Open only to students of outstanding ability. Both must be taken to receive credit. See Honors Students.</td>
</tr>
</tbody>
</table>
INTRODUCTION TO CULTURAL GEOGRAPHY. 3 hrs.
A survey of major countries of the world in a regional context with emphasis on cultural elements that are significant to man.

PHYSICAL GEOGRAPHY. 3 hrs.
Systematic survey of earth-sun relationships, land-surface form, climate, soils, water, natural vegetation, and other natural content as a background for human geography.

GENERAL ECONOMIC GEOGRAPHY. 3 hrs. I, II, S.
World geography with units built around specific products of agriculture, manufacturing, and mining, as related to human numbers, soil, climate, geology, and other factors of natural government.

GEOGRAPHY OF WEST VIRGINIA. 2 hrs.
Transportation, population, mining, industry, and agriculture as related to climate, soils, land forms, and other natural environmental items.

ECONOMIC GEOGRAPHY OF EUROPE. 3 hrs.
Relationship between man's activities and natural environment studied by countries, with attention given to inter-relation of countries.

ECONOMIC GEOGRAPHY OF NORTH AMERICA. 3 hrs. I, II, S.
Natural regional divisions emphasizing major economic activities and environmental factors with chief emphasis given to the United States.

ECONOMIC GEOGRAPHY OF LATIN AMERICA. 3 hrs.
Relationship between man's activities and natural relationship studied in each country.

ECONOMIC GEOGRAPHY OF AFRICA AND AUSTRALIA. 3 hrs.
Low latitude and lower middle latitude regions given relationship approach with national and sectional problems stressed with chief emphasis given to Africa.

WORLD GEOGRAPHY PROBLEMS. 3 hrs. I, II, S.
Agriculture, industry, mining and transportation studied on global basis. Physical geography introduced and regional climatic approach clarified.

GEOGRAPHY FOR TEACHERS. 3 hrs. I, II.
A study of elements of geography most essential for effective teaching of geographic content in elementary education and the social studies.

CONSERVATION OF NATURAL RESOURCES. 3 hrs. I, II.
A study of the critical resources approached from the historic, geographical, and ecological viewpoints.

HISTORICAL GEOGRAPHY OF THE UNITED STATES. 3 hrs.
Study of coastal settlements, the population spread through
Appalachia and the Mississippi Basin and the development of inter­mountain and Pacific Coast centers.

403. ECONOMIC GEOGRAPHY OF ASIA. 3 hrs.
   Special attention given activities and environment in representative
   continental countries and nearby islands.

405. 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.

408. GEOGRAPHY OF MEXICO. 3 hrs.
   Regional study of relation of man's activities to natural
   environment.

409. GEOGRAPHY OF CANADA. 3 hrs.
   Regional study of relation of man's activities to natural
   environment.

410. URBAN GEOGRAPHY. 3 hrs.
   Study of city function, patterns, past and current problems
   confronting the city including planning, zoning, housing, and urban
   renewal.

412. GEOGRAPHY OF SOVIET LANDS. 3 hrs.
   Russian agriculture, mining, grazing, industry, and transportation
   examined in environmental terms.

413. GEOGRAPHY OF THE BRITISH ISLES. 3 hrs.
   Climate, minerals, and land forms explaining major economic
   activities of the islands.

420. FIELD GEOGRAPHY OF WEST VIRGINIA. 3 hrs.
   Type areas in lumbering, mining, agriculture, and industry studied
   through field methods.

425. CLIMATOLOGY. 3 hrs.
   A study of elements of weather and climate, methods of climatic
   classification, and distribution and characteristics of world climate
   regions.

429. MAP INTELLIGENCE AND PROJECTIONS. 3 hrs.
   Principles and practice in construction of map grid, relation of map
   to compass, use of drafting equipment, and understanding of earth
   features as shown on maps.

430. APPLIED CARTOGRAPHY. 3 hrs.
   Map making with regard to projection selection, source materials,
   compilation, restitution, and air photo interpretation.
   PR: Geography 429 or permission of instructor.

495H-496H. READING FOR HONORS IN GEOGRAPHY. 4; 4 hrs. I, II.
   See Honors Courses page 50.
COURSES OF INSTRUCTION

GEOLOGY
(GLY)

Dr. Wiley Rogers, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Science)

Professor Rogers
Assistant Professors Bailey, Bonnett, Sanderson

200. PHYSICAL GEOLOGY. 3 hrs. I, II, S.
Elementary physical geology; origin and nature of the earth, geological processes, weathering and erosion, volcanoes, earthquakes, mountain building, common rocks and minerals. Field trips. 3 lec.
CR: Geology 210L.

201. HISTORICAL GEOLOGY. 3 hrs. I, II, S.
Chronological history and development of the earth, sequence of the geologic ages and rock formations, development and evolution of life as revealed by fossils. Field trips.
Geology 200.
CR: Geology 211L.

210L. EARTH MATERIALS LABORATORY. 1 hr. I, II, S.
An introduction to laboratory methods and materials as applied to the identification, classification, recovery and uses of earth resources. 2 lab.
CR: Geology 200.

211L. EARTH DEVELOPMENT LABORATORY. 1 hr. I, II, S.
The geologically significant representative of both animals and plants will be studied. Attention is given to elementary morphology, taxonomy, biometrics and paleocology. 2 lab.
PR: Geology 210L.
CR: Geology 201.

212L. GEOLOGIC AND TOPOGRAPHIC MAPS. 1 hr. I, II, S.
An introduction to geologic mapping and map interpretation, preparations of topographic and geologic cross sections. 2 lab. (Field work).
PR: Geology 200 or 201. Required of majors.

313. STRUCTURE GEOLOGY. 4 hrs. II, Alternate years (even numbers)
Analysis, classification and origin of depositional and deformational structures common to all classes of rocks; their structural history, relationships, and stresses which caused them. 3 lec-2 lab.
PR: Geology 201.

314. MINERALOGY. 4 hrs. I. Alternate years (odd numbers)
Identification, classification, origin, occurrence and economic uses of minerals; crystallographic forms and blowpipe analysis. 2 lec-4 lab.
PR: Geology 200, Chemistry 212, 214.

325. STRATIGRAPHY AND SEDIMENTATION 4 hrs. I, Alternate years (odd numbers)
Formation, organization, sequence, and correlation of sedimentary
rocks; study of the origin, transportation and deposition of rock-forming sediments. 2 lec-2 lab.
PR: Geology 201.

400. SPECIAL TOPICS AND RESEARCH IN GEOLOGY. 1 or 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.

415. ANALYTICAL MINERALOGY. 4 hrs., II Alternate years (even no.)
A study of the internal symmetry, bonding, structure, and crystal chemistry of minerals by analytical methods. 3 lec-2 lab.
PR: Geology 201 and 325 or Zoology 212 and Consent.

418. INVERTEBRATE PALEONTOLOGY. 3 hrs. I, II, Alternate years (even numbers) and S.
Taxonomy and morphology of the major invertebrate phyla with an introduction to biometrics as applied to paleontology. 2 lec-2 lab.
PR: Geology 201 and 314 or consent.

421. 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.

422. 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.
PR: Geology 201, 314, or Consent.

423. SEDIMENTARY PETROGRAPHY. 3 hrs. II, Alternate years (even numbers)
Megascopic and microscopic identification and a depositional and postdepositional interpretation of the sedimentary rocks. 2 lec-2 lab.
PR: Geology 201 and 314.

425. 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.
PR: Geology 200, Chemistry 211, 213, 212, 214 or permission.

426. GEOPHYSICS. 3 hrs. I, 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.

451. PRINCIPLES OF GEOMORPHOLOGY. 3-4 hrs. I, Alternate years and S (even numbers)
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 laboratory.
PR: Geology 200, Geology 210 or consent.

452. REGIONAL GEOMORPHOLOGY. 3 hrs. II, Alternate years (odd numbers)
Description and classification of North American surface
morphology and its relationship to bedrock; climate, processes and history. 3 lec.
PR: Geology 451 or consent.

453-454. SEMINAR. 1 hr. I, II.
A graduation requirement for all seniors seeking the B.S. in Geology and recommended for seniors seeking the A.B. in Geology.
PR: Permission of chairman.

HEALTH, PHYSICAL AND SAFETY EDUCATION

Dr. Dorothy Hicks, Chairman
Dr. Jimmy Railey, Chairman

COLLEGE OF EDUCATION

Professors Hicks, Railey
Associate Professors Mills, Williams
Instructor Belknap

HEALTH EDUCATION (HE)

220. PERSONAL HEALTH. 3 hrs. I, II, S.
A survey course that touches upon current health problems and their causative agents; with emphasis in development of positive attitudes and abilities that affect personal and community health.

222. FIRST AID. 2 hrs. I, II, S.
First aid, safety and survival education in the home, in the school, and on the playground.

223. METHODS IN TEACHING FIRST AID. 1 hr.
This course is designed to provide understanding and skills in the selection and use of resources and methods for teaching first aid.
PR: Health Education 222 and instructor's permission.

325. SCHOOL AND COMMUNITY HEALTH. 2 hrs. I, II, S.
An examination of some of the specific relationships between school and community health programs, including the roles and interaction of public, professional, private and voluntary health agencies with the school.
PR: Health Education 220.

321. THE SCHOOL HEALTH PROGRAM. 3 hrs. I, II, S.
A consideration of the total school health program, including healthful school living, health services, and health instruction.

328. METHODS AND MATERIALS IN TEACHING HEALTH. 3 hrs. I, II, S.
A comprehensive examination of the most effective methods and materials utilized in teaching health in the elementary and secondary school programs.
PR: All Health Concept courses.

411. MENTAL HEALTH. 1 hr. I, II, S.
An examination of mental health and illness; including care, treatment and prevention of various types of mental illnesses and problems related to mental health in our society.
PR: Health Education 220.

412. SEX EDUCATION. 1 hr. I, II, S.
A study of sex education, including venereal disease education and examination of the problems of current interest related to human sexuality.
PR: Health Education 220.

413. ALCOHOL USE AND ABUSE. 1 hr. I, II, S.
A study of the use and abuse of alcohol. Consideration of medical, legal and social aspects of the alcohol problem; treatment methods in alcoholism.
PR: Health Education 220.

414. DRUG USE AND ABUSE. 1 hr. I, II, S.
A study of the use and abuse of drugs: consideration of pharmacological, legal and medical and other problems related to drug use and abuse.
PR: Health Education 220.

482-483-484-485. SPECIAL TOPICS. 1-3; 1-3; 1-3; 1-3 hrs.
Health education majors only, with permission of department chairman.

PHYSICAL EDUCATION (PE)

100. BEGINNER'S COURSE IN SWIMMING. 1 hr. I, II.
PR: non-swimming classification or instructor's permission.

108. FIELD HOCKEY AND BADMINTON (WOMEN). 2 hrs. I.
Instruction and practice in both fundamental and advanced skills with strategy techniques provided through class competition (majors only.)

113-114. ORIENTATION TO PHYSICAL EDUCATION (MEN).
1:1 hr., I, II.
Designed to teach skills in a minimum of four sports or activities.

NOTE: Sections of Physical Education 113-114 are maintained for those who, because of physical disabilities, are restricted to certain types of physical activity. It is recommended that such students present the family physician's recommendation to the university physician. Upon the university physician's recommendation the student will be assigned to a restricted class designed to improve the individual's general physical condition and to correct personal hygiene handicaps as far as possible.

115. ORIENTATION TO PROFESSIONAL PHYSICAL EDUCATION.
1 hr. I, II.
A survey of physical fitness and motor educability interpreted to physical education needs; teaching of weight training and circulatory-respiratory conditioning. (Majors only - in lieu of Physical Education 113).
116. ORIENTATION TO PROFESSIONAL PHYSICAL EDUCATION. 1 hr. I, II.
   A survey of motor ability and sports skills interpreted to physical
   education needs; teaching of conditioning activities and wrestling.
   (Majors only - in lieu of Physical Education 114).

118. INTRODUCTION TO PHYSICAL EDUCATION. 2 hrs. I, II, S.
   Provides an orientation to the profession emphasizing history,
   philosophy, preparation, competencies and opportunities.

123. SURVEY OF PHYSICAL ABILITIES AND MOTOR SKILLS
   (WOMEN). 1 hr. I.
   Teaching of calisthenics and conditioning activities with emphasis
   on physical fitness concepts including muscular development of the
   body. The measurement of individual motor abilities and skills (majors
   only).

124. FUNDAMENTALS OF MOVEMENT (WOMEN). 1 hr. II.
   To develop an understanding of the theory and analysis of human
   movement (majors only).
   PR: Physical Education 123.

125. BEGINNING GYMNASTICS. 1 hr. I, II.

127. SLIMNASTICS. 1 hr. I, II.

132. VOLLEYBALL. 1 hr. I, II.

140. BEGINNING TENNIS. 1 hr. I, II, S.

141. BEGINNING GOLF. 1 hr. I, II, S.

142. BEGINNING BADMINTON. 1 hr. I, II, S.

145. BOWLING. 1 hr. I, II, S.

147. SOCCER AND BOWLING (WOMEN). 2 hrs. II.
   Instruction and practice in both fundamental and advanced skills in
   soccer with strategy techniques provided through class completion.
   Development and practice of fundamental skills in bowling. (Majors
   only).

160. BEGINNING MODERN DANCE. 1 hr. I, II.

205. INTERMEDIATE SWIMMING. 1 hr. I, II, S.
   Theory and practice of fundamental strokes and diving; opportunity is given for skill ratings of the American Red Cross. Certificates of intermediate swimmer or advanced swimmer (according to ability) may be earned.

209. INDIVIDUAL AND DUAL SPORTS (MEN). 1 hr. I, II, S.
   Theory, rules, and techniques of intermediate handball.

210. INDIVIDUAL AND DUAL SPORTS (MEN). 1 hr. I, II, S.
   Theory, rules and techniques of advanced golf and badminton.

230. BASKETBALL AND TRACK, FIELD (WOMEN). 2 hrs I, II.
   The development and practice of fundamental and advanced skills
in basketball with strategy techniques provided through class competition. Instruction and practice of fundamental skills in various track and field events (majors only).

231. TENNIS AND INTERMEDIATE SWIMMING (WOMEN). 2 hrs. I, II.
Instruction in basic fundamentals and simple strategy; emphasis on etiquette and rules. Theory and practice of fundamental strokes and diving (majors only).
PR: Physical Education 100 or equivalent.

232. GOLF AND VOLLEYBALL (WOMEN). 2 hrs. I, II.
Instruction and practice in golf fundamentals; golf course experience with particular emphasis on etiquette and rules. Practice of volleyball fundamentals with additional insight into offensive and defensive techniques used in competitive volleyball (majors only).

233. TUMBLING AND GYMNASTICS (WOMEN). 2 hrs. I, II.
To prepare students to teach gymnastics and tumbling and to organize gymnastics programs by providing them with adequate skills and knowledge (majors only).

240. INTERMEDIATE TENNIS. 1 hr. I, II.
PR: Physical Education 140 or 231 or 253.

241. INTERMEDIATE GOLF. 1 hr. I, II.
PR: Physical Education 141 or 232 or 254.

242. INTERMEDIATE BADMINTON. 1 hr. I, II.
PR: Physical Education 108 or 142 or 254.

251. PROFESSIONAL ACTIVITIES (MEN). 2 hrs. I, II, S.
Techniques and skills of basketball, baseball and soccer taught with emphasis on participation in the activities. (majors only)
PR: Physical Education 115 and 116.

252. PROFESSIONAL ACTIVITIES II (MEN). 2 hrs. I, II, S.
Techniques and skills of touch football, track, and volleyball taught with emphasis on participation in the activities. (Majors only)
PR: Physical Education 115 and 116.

253. PROFESSIONAL ACTIVITIES III (MEN). 2 hrs. I, II, S.
Techniques and skills of tennis, archery, and handball taught with emphasis on participation in the activities. (Majors only)
PR: Physical Education 115 and 116.

254. PROFESSIONAL ACTIVITIES IV (MEN). 2 hrs. I, II, S.
Techniques and skills of golf, badminton, and bowling taught with emphasis on participation in the activities. (majors only)
PR: Physical Education 115 and 116.

260. MOVEMENT BEHAVIOR IN CHILDREN. 3 hrs. I, II, S.
Introduction to the understanding of physical and motor development of children from pre-school age to adolescence, case studies, observation, and experience with children at various age levels.
PR: Sophomore standing.

300. RECREATION SWIMMING. 1 hr.
The development of skills in the use of small water craft, and in
water related activities, such as scuba, snorkel, and skin diving, water skiing, and other aquatic activities of a recreational nature.

301. SCIENTIFIC FOUNDATIONS FOR PHYSICAL EDUCATION.  
3 hrs. I, II, S.  
Instruction and laboratory experiences in basic anatomy, physiology, and biomechanics as applied in human movement.  
PR: Biological Science 202.

303. OUTDOOR RECREATION EDUCATION. 2 hrs. I, II.  
To include both lecture and field experiences. Experiences in organization, administration and participation in outdoor activities, such as camping, hiking, exploring, and related activities.  
NOTE: Student must allow for time (usually on selected weekends) for laboratory experiences to be scheduled by the instructor.

304. MODERN DANCE I. 1 hr. I, II.  
Analytical and practical study of elementary modern dance technique with some experience in the basic elements of composition. (Majors only)

305. MODERN DANCE II. 1 hr. I, II.  
A continuation of Modern Dance I with an emphasis on analysis and discipline.  
PR: PE 160, PE 304 or approval of instructor.

306. TUMBLING AND GYMNASTICS (MEN). 1 hr. I, II.  
Fundamentals and practice in stunts, tumbling, and apparatus.

309. ADVANCED TUMBLING AND GYMNASTICS. 1 hr. I, II.  
Separate sections for men and women.  
PR: Physical Education 233 or 306.

312. LEADERSHIP IN SPORTS. 1 hr. I, II.  
Designed to give the prospective physical education teacher an opportunity to gain leadership skills in conducting activities. The student will be assigned as an assistant to the instructor of an activity. (Majors only).  
PR: Permission of instructor.

314. MATERIALS AND METHODS FOR ELEMENTARY SCHOOLS.  
3 hrs. I, II, S.  
A practical approach designed to aid the elementary teacher in teaching methods and techniques needed for the teaching of elementary physical education.

321. KINESIOLOGY. 3 hrs. I, II, S.  
Applied anatomy of the human musculature in relation to physical activity. 2 lec-2 lab.  
PR: Physical Education 301.

322. ADAPTED PHYSICAL EDUCATION. 2 hrs. I, II, S.  
Theory of remedial exercise and individualizing of physical activities to meet the needs of the physically and postural cases.  
PR: Physical Education 301.

330. RHYTHMIC ACTIVITIES. 1 hr. I, II.  
Instruction, practice and teaching of social, square and folk dance.
335. ORGANIZATION OF THE INTRAMURAL PROGRAM. 2 hrs. I, II.
Problems of policy and administration of intramural programs on
the elementary, secondary, and college level.

350. CREATIVE RHYTHMS. 2 hrs. I, II, S.
A theoretical and practical course of study designed to aid the
elementary school physical education specialists in developing a
functional knowledge, understanding, and proficiency methods,
principles, and teaching techniques in creative rhythmic activities for
grades 1-6.
PR: Physical Education 260.

365. TESTS AND MEASUREMENTS IN HEALTH AND PHYSICAL
EDUCATION. 3 hrs. I, II, S.
A study of the nature and purpose of measurements and evaluation
in the fields of health and physical education. Evaluation of available
tests and practice in administration of tests. 2 lec.-2 lab.

370. NATURE AND BASES OF MOTOR SKILLS. 2 hrs. I, II, S.
A study of the factors contributing to the acquisition, improve­
ment, and retention of gross motor skills. Stages of motor development
and learning of motor skills will be examined from a behavioral
approach.
PR: Physical Education 118.

401. DANCE COMPOSITION I. 1 hr. I, II.
A study of the basic principles of beginning dance composition;
improvisations and studies in rhythmic, spatial, and dynamic designs.
PR: Modern Dance II.

403. ADVANCED SWIMMING. 1 hr. I, II.
Instruction and tests for American Red Cross Senior Life Saving.
Upon satisfactory completion, Senior Life Saving Certificate issued.

404. WATER SAFETY INSTRUCTION. 1 hr. I, II.
Materials and methods of teaching American Red Cross Water
Safety Course. Upon satisfactory completion, Water Safety Instructor's
Certificate issued.
PR: Physical Education 403 and Senior Life Saving Certificate.

405. ADVANCED ROUND AND FOLK DANCING. 1 hr. I.
Theory and practice of folk dancing and round dancing.
PR: Physical Education 330.

410. PRINCIPLES, ORGANIZATION, AND ADMINISTRATION OF
HEALTH AND PHYSICAL EDUCATION. 3 hrs. I, II, S.
Principles of health and physical education, procedures in the
organization and administration of the physical education program,
including purchase, care, and use of equipment.
PR: All movement experience courses and Physical Education 118.

420-421. ADVANCED PRACTICE AND OFFICIATING. 1; 1 hr. I, II.
Separate sections for men and women.

422. PREVENTION, CARE AND TREATMENT OF ATHLETIC INJURIES.
2 hrs. I, II.
Massage, conditioning, first aid, and treatment of injuries both
theory and practice.
PR: Physical Education 301.
426. METHODS OF COACHING BASKETBALL. 2 hrs. I, II.
Different styles and systems of playing, methods of selecting and teaching players, officiating, scouting techniques, and a scientific analysis of the player and the methods of playing basketball. Separate sections for men and women.
PR: Physical Education 230, or permission of instructor.

427. METHODS OF COACHING FOOTBALL (MEN). 2 hrs. I.
Different styles and systems of playing, methods of selecting and teaching players, officiating, scouting techniques, and a scientific analysis of the player and the methods of playing football.

428. METHODS OF COACHING BASEBALL. 2 hrs. I.
Methods and coaching techniques in baseball theory and fundamentals including scouting, rules interpretation, officiating, selection of players, and construction and maintenance of baseball facilities.

430. CAMP COUNSELING. 3 hrs. II.
Discussion of types of camps, objectives of camping, principles and practice in program making. Evaluation activities, description of programs, policies, health and safety problems.

431. CAMP PROGRAMS FOR THE HANDICAPPED CHILD. 3 hrs. II.
A study of camp procedures for the handicapped and practice in the development of camp programs for atypical individuals.

440. PHYSIOLOGY OF EXERCISE. 3 hrs. I, II, S.
Analysis of physiological changes which occur in the body during exercise. 2 lec-2 lab.
PR: Physical Education 301.

450. PLAYGROUND AND COMMUNITY RECREATION. 2 hrs. I, II.
Problems involved in organization and administration of playground and community recreational programs.

470. CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION. 2 hrs. I, II, S.
A study of principles, objectives and procedures in a curriculum construction in the elementary and secondary school programs. Typical programs studied and evaluated.
PR: All movement experience courses, and Physical Education 118.

475. PRINCIPLES AND TECHNIQUES OF RECREATIONAL LEADERSHIP. 2 hrs.
Emphasis will be placed upon methods and materials, applicable to planning and directing various types of activities in recreational situations.

482-483-484-485. SPECIAL TOPICS. 1-3; 1-3; 1-3; 1-3 hrs.
Physical education majors only, with permission of department chairman.

SAFETY EDUCATION (SED)

235. INTRODUCTION TO SAFETY EDUCATION. 3 hrs. II, S.
The child accident problem: basic courses, types and areas of
accidents; home, farm, recreation, school and vacation accidents; safe practices, control and prevention in the school and the general environment.

385. TRAFFIC SAFETY AND DRIVER EDUCATION. 3 hrs.
An introductory course in the teaching of safety and driver education, including techniques of classroom and behind the wheel instruction. 2 lec-2 lab. Non-drivers may enroll for this course as auditors in order to learn to drive an automobile.
PR: Safety Education 235, ability to drive an automobile, and the possession of a valid driver's license.

450. TRAFFIC ENGINEERING. 3 hrs.
Concerned with traffic and pedestrian flow, channelization, light coordination, intersection control, and devices as related to safe, convenient and economical transporation of persons and goods.

480. TRAFFIC LAW AND ENFORCEMENT. 3 hrs. II, S.
A course designed to study and evaluate the varied and complex system of laws governing the control of all forms of traffic; the influences and responsibilities of traffic law enforcement in present day society.

482-483-484. SPECIAL TOPICS. 1-3; 1-3; 1-3 hrs.
Students with specialization in safety education only, with permission of department chairman.

485. 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.

486. OCCUPATIONAL SAFETY AND HEALTH LEGISLATION. 3 hrs.
A survey of the legislation that has affected the safety movement with special emphasis on the 1969 Coal Mine Health and Safety Act and the 1970 Occupational Safety and Health Act.

489. OCCUPATIONAL HAZARD CONTROL. 3 hrs.
A study of the latest industrial safety information which will assist the student in designing a program to reduce or eliminate all incidents which downgrade the system.

490. PROBLEMS AND PRACTICES IN TRAFFIC SAFETY AND DRIVER EDUCATION. 3 hrs.
A survey course designed for supervisors of traffic accident prevention programs. Examines and evaluates problems, attitudes, philosophies, activities and administrative practices in school, city and state traffic safety programs. Supplements basic teacher training courses in traffic safety.
PR: Safety Education 235 and 485.

493. ORGANIZATION, ADMINISTRATION AND SUPERVISION OF SAFETY PROGRAMS. 3 hrs.
A study of safety programs at the state and local levels including the administrative, instructional, and protective aspects of a comprehensive safety program in schools, occupations, home and public.

495. INDUSTRIAL SAFETY MANAGEMENT. 3 hrs.
Emphasis is placed on principles, facts, and methodology rather than incidental detail concerning safety management.
PR: Safety Education 485.

**HISTORY**

(HST)

Dr. Charles H. Moffat, Chairman

**COLLEGE OF ARTS AND SCIENCES**

(Division of Social Sciences)

Professor Moffat, Weill, Woodward
Associate Professors Aldred, Gould, Hemphill
Assistant Professors Bias, Duke, Galgano, Maddox

105. **ENGLISH HISTORY TO 1600. 3 hrs. I.**

106. **ENGLISH HISTORY SINCE 1600. 3 hrs. II.**
A continuation of English 105. Special attention is given to the development of ministerial government and to the growth and decline of the British Empire.

219. **EARLY EUROPEAN HISTORY: FROM EARLIEST TIMES TO THE FIFTH CENTURY A.D. 3 hrs. I. Alternate years.**
A survey of the ancient Near East, Greece, and Rome with emphasis on Greek and Roman civilization from Mycenaean times through the Roman Empire of the fifth century. Open to all undergraduates.

220. **EUROPEAN HISTORY, 400-1500 A.D. 3 hrs. II. Alternate years.**
A survey of the history of Europe from the later Roman Empire to the end of the Middle Ages with emphasis on religious, cultural, social, political and economic developments. Open to all undergraduates.

301. **LATIN AMERICA: DISCOVERY TO INDEPENDENCE.**

302. **LATIN AMERICA: INDEPENDENCE TO THE PRESENT.**

308. **SOCIAL AND ECONOMIC HISTORY OF THE SOUTH. 3 hrs. I.**
A survey of Southern history from the founding of Jamestown to the present.

309. **SOCIAL AND ECONOMIC HISTORY OF THE WEST. 3 hrs. II.**
A study of the frontier in America with particular emphasis upon its contribution to national culture.

311. **AMERICAN HISTORY, 1492-1789. 3 hrs. I, II, S.**
A survey of the English colonies in America from the discovery of America by Columbus to the ratification of the Federal Constitution in 1789.

312. **AMERICAN HISTORY, 1789-1877. 3 hrs. I, II, S.**
A survey of the political, economic, social and cultural life of the United States from the formation of its government to the end of the Civil War, a description and explanation of the events, movements,
principals and principles which marked the “middle period” of our country’s growth.

313. AMERICAN HISTORY SINCE 1877. 3 hrs. I, II, S.
   A general survey of American history from the close of Reconstruction to the present.

314. INDIA AND SOUTHEAST ASIA: MODERN PERIOD 3 hrs. I.
   Alternate years.
   Introduction to the civilization of the area; the establishment of colonial control; liquidation of colonial rule and the readjustment required.

316. HISTORY OF BLACK AMERICA TO 1885. 3 hrs.
   A general survey of the history of the Negro in the United States, beginning with his origins in Africa and the West Indies and extending throughout his development on the North American continent to 1885.

317. HISTORY OF BLACK AMERICA SINCE 1885. 3 hrs.
   A general survey of the history of the Negro in the United States since the end of reconstruction in the South, 1885.

318. AMERICAN SOCIAL, CULTURAL AND INTELLECTUAL HISTORY.
   3 hrs.
   A study of the changes and continuities in the history of American thought, culture and social movements 1865-present. Special emphasis on the modern period.

319. AMERICAN URBAN HISTORY: 1865-PRESENT. 3 hrs.
   A study of the political, economic, social and intellectual impact of the city upon American History, and the impact of history upon the growth of American urbanization.

321. EUROPEAN HISTORY, 1492-1815. 3 hrs. I, II, S.
   A survey of European history emphasizing the Renaissance, the Reformation and the rise of the national states.

322. MODERN EUROPE SINCE 1815. 3 hrs. I, II, S.
   A survey of European History. The impact of the French Revolution and the Industrial Revolution; the significance of nationalism and imperialism is particularly noted.

375. THE FAR EAST. 3 hrs.
   A survey of the Far East emphasizing cultural, economic, and political development of China and Japan. Particular emphasis is placed on the 19th century and the impact of Western penetration of Asia.

404. 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.

405. AMERICAN DIPLOMACY, 1900 TO PRESENT. 3 hrs.
   American foreign relations in the 20th century. The gradual retreat from isolation in the period between World War I and World War II and modern American involvement in international commitments will be stressed.
COURSES OF INSTRUCTION

418. EUROPEAN DIPLOMACY. 3 hrs.
   Particular attention is given to the period since the French Revolution. Diplomatic history of major continental national and diplomatic relations with non-European nations is emphasized.

421. 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, and the influence of the two movements upon each other are stressed.

422. 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.

425. EUROPEAN HISTORY, 1814-1914. 3 hrs.
   A century of European political, economic and social history and its relationship to and influence upon the history of other world areas is noted. The impact of imperialistic rivalry is emphasized.
   PR: Junior standing.

426. 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, and World War II and its aftermath are studied.
   PR: Junior standing.

427. 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 impact of Communism upon the world. Particular emphasis is placed on modern Russia foreign policy.
   PR: Junior standing.

428. INTELLECTUAL AND CULTURAL HISTORY OF MODERN EUROPE. 3 hrs.
   A survey of the main events in European thought and culture in the nineteenth and twentieth centuries.
   PR: History 322.

432. THE UNITED STATES SINCE 1914. 3 hrs.
   A thorough study of the United States since 1914.

495H-496H. READINGS FOR HONORS IN HISTORY. 4; 4 hrs. I, II.
   Open to history majors of outstanding ability. Study may deal with any field of history. Wide reading and comprehensive understanding of the era is required.
   PR: Consent of department chairman.
   See Honors Courses.

HOME ECONOMICS (HEC)

Dr. Grace Bennett, Chairman

COLLEGE OF EDUCATION
110. FOOD SELECTION AND PREPARATION. 3 hrs. I, II.
Principles of food selection, preparation and preservation.

112. CLOTHING CONSTRUCTION. 2 hrs. II.
Basic principles of clothing construction.

203. MEAL MANAGEMENT. 3 hrs. I, II.
Problems involved in planning, preparing and serving nutritionally adequate meals. Emphasis on management of time, money, and energy.
PR: Home Economics 110 or consent of instructor.

210. NUTRITION. 3 hrs. I, II.
Principles of human nutrition and their application in planning and evaluating diets for individuals and families.

212. TEXTILES. 2 hrs. I, II.
Natural and man-made textile fibers, weaves, and finishes as related to the selection, use, and care of clothing and household textiles.

213. ADVANCED CLOTHING CONSTRUCTION. 3 hrs. I, II.
Experiments in construction techniques, fabrics, figure and design compatibility.
PR: Home Economics 112 or an acceptable score on clothing construction pretest.

303. CHILD DEVELOPMENT. 3 hrs. I, II.
Care and guidance of young children two to six years old, in relation to their physical, emotional, mental, and social development. Observation and participation in nursery school required.

304. DIET THERAPY. 3 hrs.
Present day concepts of the relation of nutrition and diet to the prevention and treatment of disease.
PR: Home Economics 210 and Chemistry 204.

306. HOME ECONOMICS EDUCATION: METHODS IN HOME ECONOMICS EDUCATION. 3 hrs. I, II.
Bases for planning junior and senior high school home economics programs; use and development of resources; technical skills of teaching.
PR: Educational Foundations 319.

314. CLOTHING SELECTION. 3 hrs. I, II.
Psychological, sociological, economic, and esthetic aspects of clothing selection.

351. HOUSING. 3 hrs. I.
Influence of family needs, social and economic trends, and physical environment on housing; analysis of building materials and space utilization in housing.

354. HOME FURNISHINGS. 3 hrs. II.
Application of art elements and principles of design in selection, arrangement and use of furnishings and interiors of homes.
PR: Art 112 or consent of instructor.

355. PROBLEMS IN HOME FURNISHINGS. 2 hrs.
Design and construction of curtains, draperies, and slipcovers with emphasis on selection for specific needs; furniture restoration and refinishing.
PR: Home Economics 354 or consent of instructor.

358. PRINCIPLES OF MANAGEMENT. 2 hrs. I, II.
Identification of management concepts with emphasis on principles and interrelationships within framework of the family.

401. MATERNAL AND CHILD NUTRITION. 3 hrs.
Nutritional requirements during prenatal and early growth periods; surveys of nutritional status.
PR: Home Economics 210 and Chemistry 204.

402. FOODS OF THE WORLD. 3 hrs.
Characteristics and cultural aspects of the foods of Europe, Mid East and Far East.
PR: Home Economics 203 or permission of instructor.

403. 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.
PR or CR: Chemistry 300

405. QUANTITY FOOD SERVICE. 3 hrs. II.
Basic principles of quantity food selection, preparation and service. Laboratory application in local food institutions.
PR: Home Economics 110 and Home Economics 203 or consent of instructor.

406. HOME ECONOMICS EDUCATION: METHODS IN ADULT HOME ECONOMICS EDUCATION. 3 hrs. I, II.
Vocational home economics at the secondary, post secondary and adult levels with emphasis on types and organization of programs, legislation, and groups served.
PR: Educational Foundations 319.

407. INSTITUTIONAL MANAGEMENT. 3 hrs.
Administration of food service in institutions.

413. EXPERIMENTAL FOODS. 3 hrs. I.
Experimental study of chemical and physical factors affecting food preparation.
PR: Home Economics 110 and Chemistry 204.

415. FAMILY RELATIONSHIPS. 3 hrs. I, II.
Relationships in the family during its life cycle, with some consideration of family life in other cultures.

416. PRENATAL AND INFANT CARE. 3 hrs. I, II.
Prenatal and postnatal care of the mother, development of the fetus and care of the infant to two years of age.
419. TAILORING. 3 hrs.
Contemporary methods of custom tailoring with emphasis on suitable fabrics and construction processes for particular styles.
PR: Home Economics 213 or consent of instructor.

420. HOUSEHOLD EQUIPMENT. 3 hrs. II.
Principles underlying the selection, use, and care of household equipment.

427. HOME MANAGEMENT LABORATORY. 3 hrs. I, II.
Home management laboratory to develop competencies in decision making, activity analyses, use of limited resources, and work simplification through individual and group analysis.
PR: Home Economics 358.

431. DEVELOPMENT AND GUIDANCE OF THE YOUNG CHILD. 3 hrs.
Techniques of guidance of young children with emphasis on adult-child interaction.
Laboratory observation required.

450. HOME ECONOMICS EDUCATION: STUDENT TEACHING IN HOME ECONOMICS. 8 hrs. I, II.
Directed teaching in an approved off-campus vocational home economics program in a secondary school.

461. THE FAMILY AS CONSUMERS. 3 hrs. I, II.
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.

480. SPECIAL TOPICS. 1-3 hrs.
Independent study in a selected area of home economics. May not be used to replace any listed course.

481-482-483-484-485. WORKSHOP. 2-3 hrs.
Workshop in selected areas of home economics. Usually, credit for not more than two workshops may be applied toward the degree.
PR: Senior standing.

JOURNALISM
(JRN)
Dr. Deryl R. Leaming, Chairman

COLLEGE OF ARTS AND SCIENCES
(Division of Social Sciences)
Professor Leaming
Assistant Professors Arnold, Denbow, Turner
Instructors Huang, Junas, McCordell, Murdock, Shively

101. SURVEY OF JOURNALISM. 3 hrs. I, II.
An examination of important facets of mass communications, including newspaper, magazine and broadcast journalism. The course is designed to provide a critical overview of the mass media. Tours to local media and guest speakers are part of the course.
201. NEWS REPORTING I. 3 hrs. I, II, S.
   Techniques of good news writing designed to develop the basic
   skills necessary for a beginning reporter through in-class laboratory
   experience.

202. NEWS REPORTING II. 4 hrs. I, II.
   Practice in gathering and writing news for the newspaper. Emphasis
   is placed upon beat assignment reporting, interviewing techniques, and
   some specialized reporting. A laboratory class which writes for The
   Parthenon, university student newspaper.
   PR: Journalism 201.

240. INTRODUCTION TO BROADCAST JOURNALISM. 2 hrs. I, II.
   Introduction to techniques of radio and television news broad­
   casting, news room organization and operation, history and ethics of
   broadcast journalism.

300. HISTORY OF AMERICAN JOURNALISM. 3 hrs. I, II.
   The development of the press in the United States, the con­
   tributions of American journalists, the rise of radio and television, and
   the relation of communications developments to political, economic
   and social trends in America.

301. FUNDAMENTALS OF COPY EDITING. 2 hrs. I, II, S.
   Theory and practice in copy editing, headline writing, picture
   editing and page makeup.
   PR: 201, 202.

302. ADVANCED COPY EDITING. 4 hrs. I, II.
   Advanced course in newspaper copy editing, headline writing and
   makeup. Instruction and practice in contemporary newspaper
   typography with experience in photo-typesetting and page compo­
   sition. Laboratory instruction and experience on the university
   newspaper, The Parthenon.
   PR: Journalism 201, 202, 301.

304. EDITORIAL WRITING. 2 hrs. I, II, S.
   Planning the editorial page; considerations of structure, style and
   policy in writing editorials. Practice in writing editorials.

308. FEATURE WRITING. 2 hrs. I, II, S.
   Experience in recognizing, developing and writing news features for
   student and local newspapers, and other publications, with and without
   specific assignments. Exercises in fundamental and advanced
   techniques.

310. CRITICAL WRITING. 2 hrs. II.
   Basic principles of cultural and artistic evaluation and criticism,
   with practice in writing critical reviews of books and other literary and
   artistic works.
   PR: Junior standing.

330. FUNDAMENTALS OF PUBLIC RELATIONS. 3 hrs. I, II.
   Current ways of disseminating public information as practiced by
   business, educational, industrial, governmental and social organizations.

335. COMPANY PUBLICATIONS. 3 hrs. I, II.
A study of company publications, trade journals and other specialized periodicals. The duties and work of the industrial editor in preparing internal, external and multi-purpose publications.

350. BROADCAST NEWS I. 4 hrs. I.
Practice in compiling, writing and editing news for broadcasting. A laboratory class which makes use of university broadcast facilities. Students receive on-air experience as available.
PR: Journalism 240.

351. BROADCAST NEWS II. 4 hrs. II.
Examination of skills required by the broadcast journalist: Writing, filming, editing and announcing. Class makes use of University broadcast facilities. Students must discuss course with instructor before enrolling.
PR: Journalism 240, 350.

360. NEWS PHOTOGRAPHY I. 3 hrs. I, II, S.
Methods of taking pictures for newspapers and picture editing. Laboratory work in developing and printing required. Enrollment limited to 20 students, with journalism and advertising majors given enrollment priority. Students must discuss course with instructor before enrolling.

381. FUNDAMENTALS OF ADVERTISING. 3 hrs. I, II, S.
Organization of mass media advertising departments and their relationships to advertising agencies and media representatives. An examination of the practices and problems of the three areas.

382. ADVERTISING COPY AND LAYOUT. 3 hrs. I, II.
Practice in obtaining material, writing copy and planning layout of advertisements in publications.
PR: Art 216, Marketing 341, Journalism 381.

390. SEMINAR IN MEDIA MANAGEMENT. 3 hrs. II.
Problems and practices affecting all departments of the mass media including labor and personnel, editorial, business and production. Junior standing.

400. NEWS PHOTOGRAPHY II. 3 hrs.
A course in advanced techniques for newspaper and magazine photography, concentrating on creation, design and use of photo essays and picture stories.
PR: Journalism 360.

402. ETHICS AND LAW OF MASS COMMUNICATIONS. 3 hrs. I, II.
Ethical and legal aspects of Mass Communications. Responsibility, libel, copyright, regulatory agencies, state and federal laws, ethical considerations and practices.

406. JOURNALISM INTERNSHIP. 3 hrs. S.
Supervised reportorial work on Huntington and other daily newspapers, and other areas of mass communications. Conferences with instructor for guidance and evaluation. Advanced arrangements must be made through instructor.

414. REPORTING PUBLIC AFFAIRS. 3 hrs. I, II.
Instruction in reporting local, state and federal government;
politics, finance and labor; social environmental issues and other areas, with emphasis on background and interpretation. Course includes field trips and guest speakers.

PR: Journalism 202.

425. ADVERTISING STRATEGY AND THE COMMUNICATION PROCESS. 3 hrs. I, II.
Principles and concepts of advertising strategies as communications processes applied to consumerism, salesmanship, promotions and campaigns.

428. HIGH SCHOOL PUBLICATIONS. 3 hrs. I, II, S.
A study of high school newspapers, including practical experiences in writing for school publications. Designed primarily for College of Education English majors but open to students of all college.

430. MAGAZINE ARTICLE WRITING. 3 hrs. I.
Fundamentals of researching and writing the popular, factual magazine article; techniques of selling articles to magazines.

440. SEMINAR: 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.

480. SPECIAL TOPICS. 1-3 hrs.
Independent studies or projects in areas of interest to the student, conducted under the direction of a faculty member. Course is taught by arrangement. It includes regular meetings with the instructor for advice and direction. Projects and studies may include mass communication research studies or special group field projects. The professor is assigned based on his proficiency in the area of study or field project.

495H-496H. READING FOR HONORS IN JOURNALISM. 4; 4 hrs. I, II.
For journalism majors of outstanding ability. Both courses must be taken to receive credit.

See Honors Courses, page 50.

MANAGEMENT
(MGT)

Dr. Robert P. Alexander, Chairman

COLLEGE OF BUSINESS AND APPLIED SCIENCE

Associate Professors Alexander, Baslmeier
Assistant Professors Kademani, White
Instructors Carrell, Eagan, Herden, Whaley

318. BUSINESS STATISTICS. 3 hrs. I, II, S.
Survey of methods of analysis and presentation of business and economic data; sampling, measures of central tendency and dispersion; index numbers; time series.
PR: Completion of math requirement.

320. PRINCIPLE OF MANAGEMENT. 3 hrs. I, II, S.
A comprehensive survey of the fundamental principles of management applicable to all forms of organizations. The course
provides the student with a basic for thinking about complex business situations in the framework of analysis of the management process. Some case analysis of management problems used.

418. STATISTICAL ANALYSIS AND SURVEY DESIGN. 3 hrs.
Methods of constructing designs for survey investigation; methods of estimation, and questionnaire design; nonparametric methods; experimental design; factorial experiments; regression and correlation; Multivariate analysis.

420. PRODUCTION MANAGEMENT. 3 hrs. I, II, S.
Management of operation systems including system design, implementation and control. Analysis of the system in the areas of product, process, material quality, and facilities management. Topics include breakeven analysis, inventory models, transportation models, network analysis.
PR: Management 320, 318.

422. HUMAN BEHAVIOR IN ORGANIZATIONS. 3 hrs. I, II, S.
Problems, methods, and analysis of various theories of behavior within organizations for purposes of integration and generalization. Emphasis will be upon the identification and investigation of the schools of thought concerning the behavioral sciences.
PR: Management 320.

424. INDUSTRIAL RELATIONS. 3 hrs. I, II, S.
Modern employment relations and manpower management from theoretical and practical viewpoints. Basic methodology techniques involving recruitment, selection, training, labor relations, collective bargaining contracts, wage and salary administration, and personnel research.

426. MANAGEMENT SCIENCE. 3 hrs. I, II, S.
Survey of quantitative techniques used in the solution of management problems. Topics include bayesian probability, uncertainty, linear programming, non-linear programming, game theory and queing theory.
PR: Management 318 or consent of instructor.

450. BUSINESS RESEARCH. 2 hrs.
Under the direction of an advisor, the student makes a study of a topic related to his field of specialization and submits a written report.
PR: Senior standing.

460. BUSINESS POLICY. 3 hrs.
An integration of knowledge gained in business core subjects and advanced management courses. Designed to develop ability to analyze complex business problems.
PR: Management 320, 420, 422, 424.

495H-496H. READINGS FOR HONORS IN MANAGEMENT. 2-4 hrs.
Open only to students of outstanding ability. Both must be taken to receive credit. See Honors Students.
COURSES OF INSTRUCTION

MARKETING
(MKT)

Dr. William F. Ashford, Chairman

COLLEGE OF BUSINESS AND APPLIED SCIENCE

Professor Ashford
Associate Professor Miller
Assistant Professor Kehoe
Instructors Marple, Weidman

231. PRINCIPLES OF SELLING. 3 hrs.
Elements of successful specialty and salesmanship designed for individuals who must influence or persuade, actuate, or lead other individuals now or in the future.

340. PRINCIPLES OF MARKETING. 3 hrs. I, II, S.
Institutions, channels of distribution, functions, federal regulation, and economics of marketing.
PR: Economics 241.

341. ADVERTISING MANAGEMENT. 3 hrs. I, II.
A managerial analysis of the principles and practices of advertising from the viewpoints of the consumer, the firm, the industry, and the economy. Special emphasis is given advertising in relation to its role in the marketing mix.
PR: English 101, 102, Marketing 340.

343. PRINCIPLES OF RETAILING. 3 hrs.
An interdisciplinary presentation of the principles and concepts fundamental to the operation of retail firms including consumer orientation.

344. RETAIL MANAGEMENT. 3 hrs.
Management of retail establishments including successful retail merchandising, stock control, buying, pricing, marking, advertising, promotion, displaying, credit, and selling of goods and/or services.

350. PHYSICAL DISTRIBUTION AND CHANNELS. 3 hrs.
History, organization, operation, regulation, and management of railways, waterways, highways, pipeline, and air transportation. Theory of rate making, shipping practices, legal and marketing implications, train movements, terminals, port and dock and traffic expediting services through various channel systems.

425. RETAIL MANAGEMENT. 3 hrs. I, II, S.
Principles and practices of successful retail merchandising covering merchandise and stock control, buying, marking, pricing, advertising, credit, and retail personnel management.

430. MARKETING MANAGEMENT. 3 hrs. I, II.
A research base for marketing decisions and organizing the market functions in relation to company objectives, program planning, and products, price, and promotion strategy.
437. CONSUMER BEHAVIOR. 3 hrs.
Acquaints the student with individual and group behavior as it pertains to consumer activity. Theories and findings in the behavioral sciences, as well as those set forth by marketing scholars, are examined so as to understand the behavioral patterns of consumers. Cultural, social, and psychological influences are considered, in addition to the traditional economic interpretations. The stress of the course is on incorporating these data into the managing of the marketing effort.
PR: Marketing 340.

440. SALES MANAGEMENT. 3 hrs. I, II.
Policies and procedures pertaining to produce planning and pricing, choice of market, planning sales effort, and the control of sales operations.
PR: Marketing 340.

442. MARKET RESEARCH. 3 hrs. I, II.
Scope and importance of market and distribution research; product, package, brand analysis and social impact; consumer, industrial and institutional surveys, quantitative and qualitative analysis of market data; situation analysis, sampling, tabulation and presentation methods.

495H-496H. READINGS FOR HONORS IN MARKETING. 2-4 hrs.
Open only to students of outstanding ability. Both must be taken to receive credit. See Honors Students.

MATHEMATICS
(MTH)

Dr. John W. Hogan, Chairman

COLLEGE OF ARTS AND SCIENCES
(Division of Sciences)

Professors Bauserman, Hogan
Associate Professors Jordan, Sisarcick, Thompson, Whitley
Assistant Professors Cusick, Czompo, D. Fields, J. Fields, Greenough,
Hatfield, Keller, Lancaster, Pankin, Peele

105. MATHEMATICS FOR ELEMENTARY SCHOOLS. 3 hrs.
Language and symbolism of modern mathematics for elementary school programs. Emphasis on the structure and development of the real number system.

110. INTRODUCTION TO COLLEGE MATHEMATICS. 3 hrs. I, II.
Introduction to logic, postulational thinking, and mathematical models; numbers, numerals and symbols; basic probability and statistics.

120. ALGEBRA. 3 hrs. I, II.
PR: One year of high school algebra.
122. **PLANE TRIGONOMETRY.** 3 hrs. I, II.
Definitions of circular functions; graphs of trigonometric functions, trigonometric identities, and applications.
PR: One unit of geometry and
PR or CR: Mathematics 120 or at least 20 on ACT.

125. **FINITE MATHEMATICS.** 3 hrs.
Topics in elementary finite mathematics: sets, counting, probability and statistics, matrices and linear equations, and applications.

130. **COLLEGE ALGEBRA.** 3 hrs. I, II.
Systems of equations, matrices and determinants, complex numbers and vectors, theory of equations and mathematical induction.
PR: Mathematics 120, or 125 or at least 20 on ACT.

131. **CALCULUS WITH ANALYTIC GEOMETRY I.** 5 hrs. I, II.
An introduction to analytic geometry and calculus including a study of limits, continuity, differentiation and antiderivatives.
PR: A score of at least 26 on ACT with strong background of at least 1-1/2 units of algebra and 1/2 unit of trigonometry in high school, or Mathematics 130.

190. **INTRODUCTORY CALCULUS.** 5 hrs. I, II.
Review of pre-calculus mathematics. Calculus of one variable with applications for students whose program requires a basic knowledge of differentiation and integration and their application to a variety of problems. May not be used as one of the three calculus course sequence required for mathematics, chemistry, physics, or engineering majors.
PR: Mathematics 120 or 125 or at least 26 on ACT.

230. **CALCULUS WITH ANALYTIC GEOMETRY II.** 4 hrs. I, II.
A study of the conics and transcendental functions using rectangular and polar coordinates, techniques of integration, improper integrals and indeterminate forms.
PR: Mathematics 131 or equivalent.

231. **CALCULUS WITH ANALYTIC GEOMETRY III.** 4 hrs. I, II.
Analytic geometry of three dimensions, partial differentiation, multiple integrals and infinite series.
PR: Mathematics 230, or equivalent.

330. **LINEAR ALGEBRA.** 3 hrs.
Vector spaces over the real and complex field, the algebra of matrices, linear transformations, and linear programming.
PR: Mathematics 230, or Mathematics 190, or equivalent.

335. **ORDINARY DIFFERENTIAL EQUATIONS.** 4 hrs. I, II.
An exposition of methods used in solving ordinary differential equations, with applications.
PR: Mathematics 231 or equivalent.

337. **ELEMENTARY TOPOLOGY.** 3 hrs. I, II.
Introduction to the basic concepts of topological spaces including such properties as continuity, connectedness, separability, compactness, and metrization.
PR: Mathematics 230 and consent of the instructor and department chairman, or Mathematics 231.
400. 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.
PR: CI 201 or consent of the Chairman of the Department of
Mathematics.

401. 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.
PR: CI-201 or consent of the Chairman of the Department of
Mathematics.

427. ADVANCED CALCULUS. 4 hrs. I.
The number system, limits, sequences, partial differentiation with
applications, maxima and minima of functions of several variables.
PR: Mathematics 330 or Mathematics 337.

428. ADVANCED CALCULUS. 4 hrs. II.
Theory of definite integrals, multiple integrals, line and surface
integrals, improper integrals, infinite series.
PR: Mathematics 427.

430. VECTOR AND TENSOR ANALYSIS. 3 hrs.
The calculus of vectors with applications, introduction to tensor
analysis.
PR: Mathematics 231.

436. PARTIAL DIFFERENTIAL EQUATIONS. 3 hrs.
An exposition of methods used in solving partial differential
equations with applications to geometry and topics in mathematical
physics.
PR: Mathematics 335, or consent of instructor and department
chairman.

443. NUMERICAL ANALYSIS. 3 hrs.
The theory and technique of numerical computation involving the
difference calculus, the summation calculus, interpolation methods,
solution of systems of equations, and methods of solution of ordinary
differential equations.
PR: Mathematics 231.

445-446. INTRODUCTION TO THE THEORY OF STATISTICS.
3, 3 hrs. I, II.
Probability spaces, conditional probability, and applications.
Random variables, distributions, expectation, and moments. Parametric
statistics: sampling methods, estimation of parameters, tests of
hypotheses.
PR: Mathematics 231.

448. FUNDAMENTAL CONCEPTS OF MODERN GEOMETRY. 3 hrs.
Finite geometries, basic background material for the modern
development of Euclidean Geometry, other geometries.
PR: Mathematics 231 or approval of the instructor.
449. PROJECTIVE GEOMETRY. 3 hrs.
    Projective geometry using both synthetic and algebraic methods.
    PR: Mathematics 231 or approval of the instructor.

450-452. 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.
    PR: Mathematics 231 or approval of the instructor and the
    Chairman of the Department of Mathematics.

460-461. FUNCTIONS OF A COMPLEX VARIABLE. 3; 3 hrs. I, II.
    Complex numbers, analytic functions, properties of elementary
    functions, integrals, series, residues and poles, conformal mapping.
    PR: Mathematics 231.

495H-496H. READINGS FOR HONORS IN MATHEMATICS. 2-4; 2-4 hrs.
    Open only to mathematics majors of outstanding ability. Both
    courses must be taken in order to receive credit.
    PR: Consent of department chairman. See Honors Courses.

MEDICAL TECHNOLOGY
(MDT)

Dr. Howard L. Mills, Director

COLLEGE OF BUSINESS AND APPLIED SCIENCE

Professor Mills
Clinical Professors Werthammer, Sadler
Associate Clinical Professor Shiels
Assistant Clinical Professors Hunter, Leslie
Clinical Instructors Collins, Kelly

411. URINALYSIS AND CLINICAL MICROSCOPY (4 weeks).
    3 hrs. I.
    Routine urinalysis including microscopic examination. Special
    chemical analysis such as bile, urobilinogen, prophyrsins. Examination
    of gastric contents for acidity.

412. BLOOD BANK (7 weeks). 4 hrs. I.
    Maintenance of adequate blood supply including bleeding donors
    and screening tests for atypical antibodies. Determination of blood
    types for purposes of crossmatching blood for transfusions, and
    selecting candidates for administration of RhoGam.

413. HEMATOLOGY AND IMMUNOLOGY (9 weeks). 7 hrs. I.
    Techniques of venipuncture. Analysis of samples for complete
    blood counts including hemoglobin, hematocrit, white cells, blood
    indices, and differential count of strained blood smears. Study of blood
    picture in disease. Special hematological tests: Sedimentation rate,
    fragility, sickling tests, and L. E. cell determinations. Bone marrow
    preparations. Blood coagulation tests. Routine electrophoresis
    immunodiffusion tests for ceruloplasmin, complement, and immune
    globulin quantitations.

414. BACTERIOLOGY (8 weeks). 4 hrs. I.
    Laboratory work includes preparation of smears, cultures and
subcultures of bacteriological and mycological material from patients to identify pathogenic bacteria and fungi. Antibiotic sensitivity testing.

415. PARASITOLOGY (4 weeks). 1 hr. I.
Exercises in techniques for identification of parasites. Thick film preparation for malaria, concentration and flotation techniques for ova and cysts, wet and strained preparations for intestinal parasites, especially for the common pathological forms.

416. BIOCHEMISTRY (10 weeks). 9 hrs. II.
Practice in common biochemical tests including blood sugar, urea nitrogen, total protein. Special analysis for electrolytes, liver and kidney function tests, and toxicological tests. Training and practice in use of analytical balance, scanning spectrophotometer, flame photometer, atomic absorption techniques, and gas chromatography. Blood gas studies: pH, pCO₂, pO₂.

418. SEROLOGY (4 weeks). 3 hrs. S.

419. AUTOMATED INSTRUMENTAL ANALYSIS (6 weeks). 4 hrs. S.
Instruction and practice in use of automated analytical equipment for chemical analysis of 19 tests (Chemistry Composite Profile). Automated fluorometric procedures including cortisols. Use of computerized readout systems for all test results.

420. DIRECTED RESEARCH (4 months). 2 hrs. S.
Individual project directly concerned with theory and/or technique in the clinical laboratory to be completed by each student under the direction of the teaching supervisor. Student must complete all lab work included in the project, necessary research, and submit a paper covering all aspects of his research.

421. SEMINAR. 2 hrs. I, II, S.
Student elective by special assignment.

MILITARY SCIENCE (MS)

Col. W. E. Shambora, Jr., Chairman

COLLEGE OF BUSINESS AND APPLIED SCIENCE

Professor Shambora
Assistant Professors Engle, Glaze, Powell, White
Instructors Kuligowski, Smith

101-102. BASIC COURSE MILITARY SCIENCE I. 2; 2 hrs.
Introduction to Army organization and its individual weapons, including marksmanship; a study of the role of the U. S. Army in national security and instruction and practice in leadership and command. Three hours per week.

201-202. BASIC COURSE MILITARY SCIENCE II. 2; 2 hrs.
Study of American military history; introduction to operations and basic tactics; map and aerial photograph reading; and continuation of
leadership and command training begun in Military Science I. Three hours per week.

301-302. ADVANCED COURSE MILITARY SCIENCE III. 3; 3 hrs.
Advanced instruction and practice in leadership concepts and exercise of command in precommissioned leadership situations; continuation of the study of Army organization to include the roles and missions of its various arms and services; introduction and practice in military teaching methods; and study of small unit tactical operations under nuclear and nonnuclear warfare conditions; counter-insurgency operations. Four hours per week.

351. SUMMER TRAINING CAMP. 3 hrs.
Six-week period of realistic applicatory training conducted at an active army post or camp in order to supplement and reinforce the instruction presented on campus. Mandatory for advanced course.
PR: Military Science 301-302.

401-402. ADVANCED COURSE MILITARY SCIENCE IV. 3; 3 hrs.
Continuation of advanced training and practice in leadership concepts and exercise of command in commissioned leadership situations in the Brigade program; study of command and staff, personnel and administration, intelligence, logistical and operational aspects of army operations up to and including the battalion level; orientation on the role of the United States in world affairs and the present world situation; customs and traditions of the service in preparation for active service; and a study of current military law. Four hours per week.

403. MILITARY SCIENCE SEMINAR. 1 hr.
Seminars on advanced military science concepts and current national and international issues; advanced practical leadership and military instructional experience. Open to and required of students completing Military Science 402 and having one full year of undergraduate work remaining before receiving degree and being commissioned. Two hours per week.
PR: Military Science 401-402.

MODERN LANGUAGES

Dr. John L. Martin, Chairman

COLLEGE OF ARTS AND SCIENCES
(Division of Humanities)

Professors Almalel, J. Martin, Perl
Associate Professors Murphy, Parrish
Assistant Professors Carr, Corum, Jacome, Stump
Instructor Henry

FRENCH
(FRN)

121-122. ELEMENTARY FRENCH. 3; 3 hrs. I, II.
Pronunciation, conversation, reading and composition with emphasis on the oral approach.
Recommended PR for 122, French 121 or one credit of high school French.
223-224. INTERMEDIATE FRENCH. 3; 3 hrs. I, II.
Reading, composition, grammar review, irregular verbs, dictees, and
conversational practice with emphasis on the oral approach.
Recommended PR for 223: French 122 or two units of high school
French.
Recommended PR for 224: French 223 or three or four units of
high school French.

314. STUDIES IN LANGUAGE LABORATORY TECHNIQUES.
3 hrs. I, II.
Training in the use of laboratory equipment. Clinical practice in the
use of laboratory facilities. 2 hour lab to be arranged. Open to majors
only.
PR: French 224.

315-316. ADVANCED CONVERSATION, COMPOSITION AND GRAMMAR.
3;3 hrs. I, II.
Study of idioms and difficult constructions. Translation and free
composition together with intensive reading.
PR for French 315: French 224.
PR for French 316: French 315 or consent of instructor.

327. 17TH CENTURY LITERATURE. 3 hrs.
A presentation of the development, spirit, and characteristics of
French classicism.
PR: French 224.

328. 17TH CENTURY LITERATURE. 3 hrs.
Racine's plays, Descartes, Pascal, and other prose classicists together
with La Fontaine, Boileau, and others of the Golden Age.
PR: French 224.

341-342. ADVANCED ORAL FRENCH. 3; 3 hrs. I, II.
Pronunciation, phonetics, oral practice with use of tape recorder
and records, vocabulary building, and conversational practice.
PR for 341: French 224 or four units of high school French.
PR for 342: French 224.

355-356. FRENCH CIVILIZATION AND CULTURE. 3; 3 hrs. I, II.
French culture from prehistoric to modern times. This course is
conducted in French, and full Language credit is given.
PR for French 355 or 356: French 224.

417-418. SURVEY OF FRENCH LITERATURE. 3; 3 hrs.
A study of important literary movements, representative authors
and their works.
PR for French 417 or 418: French 224.

435. 19TH CENTURY LITERATURE. 3 hrs.
The French Romantic movement as exemplified in the poetry,
drama, and the novel of the period.
PR: French 224.

436. 19TH CENTURY LITERATURE. 3 hrs.
Realistic and naturalistic fiction, realism in the theatre, and selected
poems of Baudelaire, the Parnassians, and symbolists.
PR: French 224.
455-456. SPECIAL TOPICS. 2-4; 2-4 hrs. I, II.
A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them.
PR: Three hours of literature from courses numbered 327 or above and the consent of instructor.

49511-496H. READINGS FOR HONORS IN FRENCH. 2-4; 2-4 hrs. I, II.
Open only to French majors of outstanding ability. Both courses must be taken in order to receive credit.
See Honors Courses, page 50.

GERMAN
(GER)

101-102. ELEMENTARY GERMAN. 3; 3 hrs. I, II.
Grammar, pronunciation, beginning conversation, reading and comprehension.
Recommended PR for German 102: German 101 or one unit of high school German.

203-204. INTERMEDIATE GERMAN. 3; 3 hrs. I, II.
Grammar, vocabulary, reading and comprehension of written and oral German.
Recommended PR for German 203: German 102 or two units of high school German.
Recommended PR for German 204: German 203 or three or four units of high school German.

301. DRAMA OF THE 19TH AND 20TH CENTURIES. 3 hrs. I.
A survey of literary trends and main authors. Reading and comprehension of selected dramas of the period.
PR German 204 or 323.

302. PROSE OF THE 19TH AND 20TH CENTURIES. 3 hrs. II.
A survey of literary trends and main authors. Reading and comprehension of selected stories and discussion of novels.
PR: German 204 or 323.

314. STUDIES IN LANGUAGE LABORATORY TECHNIQUES.
3 hrs. I, II.
Training in the use of laboratory equipment. Clinical practice in the use of laboratory facilities. Two hour lab to be arranged. Open to majors only.
PR: German 204.

315-316. ADVANCED CONVERSATION, COMPOSITION AND GRAMMAR.
3; 3 hrs. I, II.
Advanced conversation, study of idioms, difficult constructions and the finer points of grammar. Student's free composition will be critically analyzed and discussed.
PR 315: German 204 or equivalent.
PR 316: German 315 or equivalent.

323. GERMAN FOR SCIENCE MAJORS. 3 hrs.
Intensive training in comprehension and translation of scientific writings.
Recommended PR: German 203.
417-418. SURVEY OF GERMAN LITERATURE. 3; 3 hrs. I, II.
   A study of important literary movements, representative authors
   and their work. Reading of significant dramas and novels.
   PR for German 417: German 204 or 323.
   PR for German 418: German 204 or 323.

419-420. GERMAN LITERATURE OF THE CLASSICAL AGE. 3-3 hrs.
   I, II.
   German literature of the classical age, stressing Goethe, Schiller, and
   romanticism.
   PR for 419: German 204
   PR for 420: German 204.

482-483. SPECIAL TOPICS. 2-4; 2-4 hrs. I, II.
   PR for German 482 or 483: German 204 and permission of
   instructor.

495H-496H. READINGS FOR HONORS IN GERMAN. 42-4; 2-4 hrs. I, II.
   Open only to German majors with outstanding ability. Both courses
   must be taken in order to receive credit.
   See Honors Courses, page 50.

SPANISH (SPN)

101-102. ELEMENTARY SPANISH. 3-3 hrs. I, II, S.
   Pronunciation, intonation, conversation, composition, and reading.
   Also the indicative and subjunctive moods.
   Recommended PR for 102: Spanish 101 or one unit of high school
   Spanish.

203-204. INTERMEDIATE SPANISH. 3-3 hrs. I, II, S.
   Composition, conversation, and readings. Emphasis on idiomatic
   expressions and their use for cultural or practical purposes.
   Pronunciation and intonation.
   Recommended PR for 203: Spanish 102 or two units of high school
   Spanish.
   Recommended PR for 204: Spanish 203 or three or four units of
   high school Spanish.

310-311. ADVANCED CONVERSATION. 3-3 hrs. I, II.
   Conversation and discourses in Spanish on selected topics. Courses
   conducted in Spanish.
   PR for either 310 or 311: Spanish 204.

312-313. SPANISH-AMERICAN LITERATURE. 3-3 hrs. I, II.
   Readings from representative authors with reports and class
   discussion; from the colonial period to the contemporaries.
   PR for either 312 or 313: Spanish 204.

314. STUDIES IN LANGUAGE LABORATORY TECHNIQUES.
   2 hrs. I, II.
   Training in the use of laboratory equipment. Clinical practice in the
   use of laboratory facilities. 2 hour lab to be arranged. Open to majors
   only.
   PR: Spanish 204.
COURSES OF INSTRUCTION

320. SPANISH LITERATURE OF THE 19TH AND 20TH CENTURIES. 3 hrs. I.
Representative readings, lectures, discussions, and reports.
Romanticism, realism, and modernism.
PR: Spanish 204.

406. HISPANIC CIVILIZATION. 3 hrs. II.
A study of the civilization of Spain and of the contributions of Spanish speaking nations to world culture. Lectures, discussions, and reports. This course is conducted strictly in Spanish.
PR: Spanish 204.

410. SPANISH LITERATURE FROM THE CID TO THE 17TH CENTURY. 3 hrs. II.
Readings, lectures, reports, and discussions of significant literary works from the Cid to the 17th century.
PR: Spanish 204.

485. 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. Lectures, discussions, readings and reports.
PR: Spanish 204.

488. ADVANCED SYNTAX AND STYLISTICS. 3 hrs. S.
A detailed analysis of Spanish syntax and shades of meaning, with the writing of original compositions in Spanish to perfect the student's own style.
PR: Spanish 204.

490-491. SPECIAL TOPICS. 2-4 hrs. I, II.
Independent research for qualified students who are interested beyond the other courses in the catalog.
PR: Spanish 204 or permission of instructor.

495H-496H. READINGS FOR HONORS IN SPANISH. 4-4 hrs. I, II.
Open only to outstanding majors. Both courses must be taken to receive credit. Refer to page 50 for information about Honors courses.

MUSIC (MUS)

Dr. Wendell C. Kumlien, Chairman

COLLEGE OF EDUCATION

Professors Kumlien, Shepherd, Whear, Wolff
Associate Professors Bakshaw, Barbour, Caudill, Cerveris, Clark, Creighton, Davidson, DeVos, Imperi, Jones, Lanegger, O'Connell, Taggart
Assistant Professors Folsom, Green, Heger, Mead, Stacy
Departmental Assistants Dempsey, Jennings

Requirements for Music Majors

Admission to Music Program
All students applying for admission to any program in music must arrange by appointment for an audition and be approved by the Chairman of the Department of Music. Students unable to audition
on campus may arrange to submit a tape. The audition will cover performance in a major applied music area.

Applied Music

MAJOR:
All students following the single music field curriculum are required to select a major instrument or voice and complete fourteen (14) semester hours in this field – eight (8) semester hours of lower division courses and six (6) semester hours of upper division courses. Students must pass a proficiency examination at the end of the fourth semester before being admitted to upper division applied music courses. If students fail this examination, they may be required to repeat fourth semester courses until successful in the examination. Major applied music courses, with two semester hours credit, require two lessons a week with two hours daily preparation.

SECONDARY PIANO:
All students not majoring in a keyboard instrument take four semesters of piano courses, Music 195 a, b, c, d, one semester hour credit each semester, and pass a proficiency examination at the end of the fourth semester. If this examination is not satisfactory, the student is required to repeat piano until the piano proficiency requirements are met. The examination includes sight reading from a community song book, simple accompaniment from a given melodic line, simple transposition, and Clementi sonatinas, or the equivalent. Secondary applied music courses with one hour credit require two lessons per week and one hour daily preparation. Secondary piano lessons may be individual or in classes as assigned by the Department of Music.

ELECTIVE:
Students may elect applied music courses, upon approval of the Department of Music, for one hour credit each semester. Two lessons per week with one hour of daily preparation.

SENIOR RECITAL:
All music majors must appear on a senior recital to be approved by the music faculty before becoming eligible for graduation.

Major Ensembles
All music majors are required to enroll in a major ensemble for seven semesters, representing their applied music as assigned by the Department of Music. Regular attendance at all rehearsals and performances is required. The major ensembles are symphonic choir, a cappella choir, orchestra and band.

Secondary Ensembles:
All students in the university are eligible to participate in any of the secondary ensembles. These include choral union, opera workshop, chamber singers, jazz ensemble, pep band, theatre orchestra, brass, woodwind, percussion and string ensembles.

COURSES

107-307. CHORAL UNION. ½; ¼ hr. I, II.
One or two major oratorios or similar works are studied and presented each semester. One rehearsal per week, 7:30-9:30 p.m., Monday. Open to all students.
115-116. ELEMENTARY THEORY. 4; 4 hrs. I, II.
A thorough study of the melodic, harmonic, and rhythmic elements of music through writing, playing, singing, and listening. Study of triads, intervals, keys, scales, cadences, sight-singing, melodic and harmonic dictation. Includes seventh chords, modulation, clefs, and modal scales. Music 115 is a prerequisite for Music 116.

122-123. INTRODUCTION TO MUSIC LITERATURE. 2; 2 hrs. I, II.
A survey of music with special emphasis upon the relationship of music and other major arts of each important period of western civilization. Development of listening techniques and music appreciation.

175. APPRECIATION OF MUSIC. 2 hrs. I, II, S.
Development of an appreciation and understanding of music as a fine art and to help the student develop intelligent listening habits.

181a,b,c,d-381a,b,c,d. Applied Music. Saxophone .......... 1-2;1-2 hrs. I,II.
182a,b,c,d-382a,b,c,d. Applied Music. Flute ................ 1-2;1-2 hrs. I,II.
183a,b,c,d-383a,b,c,d. Applied Music. Oboe .............. 1-2;1-2 hrs. I,II.
184a,b,c,d-384a,b,c,d. Applied Music. Clarinet .......... 1-2;1-2 hrs. I,II.
185a,b,c,d-385a,b,c,d. Applied Music. Bassoon .......... 1-2;1-2 hrs. I,II.
186a,b,c,d-386a,b,c,d. Applied Music. French Horn ....... 1-2;1-2 hrs. I,II.
187a,b,c,d-387a,b,c,d. Applied Music. Trumpet .......... 1-2;1-2 hrs. I,II.
188a,b,c,d-388a,b,c,d. Applied Music. Trombone ....... 1-2;1-2 hrs. I,II.
189a,b,c,d-389a,b,c,d. Applied Music. Baritone .......... 1-2;1-2 hrs. I,II.
190a,b,c,d-390a,b,c,d. Applied Music. Tuba .............. 1-2;1-2 hrs. I,II.
191a,b,c,d-391a,b,c,d. Applied Music. Violin .......... 1-2;1-2 hrs. I,II.
192a,b,c,d-392a,b,c,d. Applied Music. Viola .......... 1-2;1-2 hrs. I,II.
193a,b,c,d-393a,b,c,d. Applied Music. Cello .......... 1-2;1-2 hrs. I,II.
194a,b,c,d-394a,b,c,d. Applied Music. String Bass ...... 1-2;1-2 hrs. I,II.
195a,b,c,d-395a,b,c,d. Applied Music. Piano .......... 1-2;1-2 hrs. I,II.
196a,b,c,d-396a,b,c,d. Applied Music. Voice .......... 1-2;1-2 hrs. I,II.
197a,b,c,d-397a,b,c,d. Applied Music. Organ .......... 1-2;1-2 hrs. I,II.
198a,b,c,d-398a,b,c,d. Applied Music. Percussion .... 1-2;1-2 hrs. I,II.

204-404. A CAPPELLA CHOIR. 1; 1 hr. I, II.
The A Cappella Choir is a mixed choir open to all university students. It is essentially a training group for the Symphonic Choir. It does, however, give frequent public performances.

205-405. WOMEN'S GLEE CLUB. 1; 1 hr. I, II.
The Women's Glee Club is open to all women students interested in singing. Literature performed ranges from classical to semi-classical.

206-406. MEN'S GLEE CLUB. 1; 1 hr. I, II.
The Men's Glee Club is open to all male students interested in singing. The repertoire includes a wide variety of literature ranging from the classics to show tunes, folk songs and spirituals.

207-407. SYMPHONIC CHOIR. 1; 1 hr. I, II.
The Symphonic Choir is a mixed group chosen by audition in open competition from the entire student body. This organization comprises the most mature singers on the campus, vocally and musically, and is dedicated to furnishing high level experience in the performance of the great choral literature.

208-408. ORCHESTRA. 1; 1 hr. I, II.
The Marshall Community Symphony is open to all university students, faculty, and interested musicians in the community with permission of the instructor. Concerts are presented each semester. Rehearsals are held each Tuesday evening.

215-216. ADVANCED THEORY. 4; 4 hrs. I, II.
Sight-singing a wide variety of material, part writing including all types of modulation and altered chords, advanced work in melodic and harmonic dictation. Counterpoint in 18th century style.
Music 116 is prerequisite for Music 215 and Music 215 is a prerequisite for Music 216.

261. STRING TECHNIQUES. 1; 1 hr. I, II.

262. WOODWIND TECHNIQUES. 1; 1 hr. I, II.

263. BRASS TECHNIQUES. 1; 1 hr. I, II.

264. PERCUSSION TECHNIQUES. 1; 1 hr. I, II.

265-465. BAND. 1; 1 hr. I, II.
The band program includes marching band, symphonic band, symphonic wind ensemble, pep band, jazz ensemble, and brass ensemble. Open to all students in the university.

301. ANALYSIS. 2 hrs. I, II.
The study of small and large forms; song form, minuet, variation, fugue, rondo, sonata, etc. Recognition of various forms by ear and by sight.
PR: Music 216.

303. MUSIC SKILLS FOR CLASSROOM TEACHERS. 2 hrs. I, II, S.
Development of fundamental music skills used in reading and teaching music at the elementary school level.
PR: Music 175 and junior standing.

312-313. VOCAL TECHNIQUES. 1; 1 hr. I, II.
Foundation principles of voice usage, interpretation, and problems of vocal pedagogy. For instrumental music major students. Courses must be taken in sequence.

316. KEYBOARD HARMONY. 2 hrs. I, II.
Applied harmony to develop facility in transposition, modulation, and harmonization of melodies with varied styles of accompaniments.

317. COUNTERPOINT. 2 hrs. II.
Eighteenth Century Counterpoint includes creative writing in this style and analysis of contrapuntal composition of this period based upon principles learned in introductory theory courses.

320. INSTRUMENTAL ARRANGING. 2 hrs.
The study of the instruments of the modern orchestra, their history, technical possibilities and limitations, and practical application of technique in public school work.

321. CHORAL ARRANGING. 2 hrs. I, II.
Score writing and arranging for vocal ensembles of two to eight parts.
COURSES OF INSTRUCTION

338. MUSIC EDUCATION: MATERIALS AND METHODS IN SCHOOL MUSIC (GRADES K-6). 3 hrs.

340. MUSIC EDUCATION: MATERIALS AND METHODS IN SCHOOL MUSIC (GRADES 7-12). 3 hrs.
Intensive study of vocal and instrumental materials and methods of presentation of music in grades 7-12.

370. MUSIC MATERIALS AND PROCEDURES. 3 hrs. I, II, S.
Materials and procedures for teaching music in nursery school, kindergarten and grades K-6.
PR: Music 175 and 303.

380. INSTRUMENTAL CONDUCTING. 2 hrs.
Techniques and mechanics of the baton with emphasis on securing attacks, releases, dynamics, and tempo changes. Analysis of band and orchestral scores with practical application.
PR: Junior standing.

422-423. HISTORY AND LITERATURE OF MUSIC. 3; 3 hrs. I, II.
From early music to romantic period, including form and texture in music, study of major works of music of all periods, listening to music, project reports. Designed for music majors.

424. CHURCH MUSIC. 2 hrs. II.
A study of liturgical music and its uses in the church service. Open to advanced music students or consent of instructor.

430. COMPOSITION. 2 hrs. II.
Experience in writing music compositions in various forms.
PR: Music 216 and 301.

440. PIANO TEACHING TECHNIQUES AND MATERIALS. 2 hrs. II, S.
Materials and techniques of presentation; development of reading skills; basic fundamentals of technique; cultivation of musicianship. Emphasis is on elementary and intermediate levels.

472-473-474-475. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs.

480. CHORAL CONDUCTING. 2 hrs. I.
Continuation of Music 380 with emphasis on interpretations, voice classification, intonation, choral repertoire, and program building. Opportunity for practical experience is provided by the various college choral organizations.

NURSING (NUR)

Professor Sarah L. Patram, Chairman and Director of Baccalaureate Degree Programs
Professor Giovanna L. Morton, Director of Associate Degree Program

COLLEGE OF BUSINESS AND APPLIED SCIENCE

Associate Professor Patram
Assistant Professors Asher, Douglas, Kopp, Morton, Wilson
Instructors Adkins, Holliday, Parsons
Teaching Assistants Andrews, Giompalo, Nestor, Paxson
101. **NURSING I.** 5 hrs. I, II.
   Designed to develop knowledge and skills which are common to the nursing care of all patients. Clinical laboratory experience included.
   PR or CR: Home Economics 210 and Zoology 225.

102. **NURSING II.** 5 hrs. I, II.
   Theory and application of principles of nursing care used in meeting common nursing needs of patients with medical and surgical conditions. Clinical laboratory experience included.
   PR: Nursing 101 and Home Economics 210 and Zoology 225.

204. **NURSING III.** 5 hrs. I, II.
   Theory and application of nursing principles in caring for adults with complex nursing problems related to specific medical-surgical conditions. Clinical laboratory experience included.
   PR: Nursing 102.

210. **NURSING IV.** 3 hrs. II.
   A study of historical developments, current issues and problems, nursing organizations, legal aspects and responsibilities of nursing.
   PR: Nursing 102.

214. **NURSING VI.** 5 hrs. I.
   Study of nursing care in mental health and illness as related to the patient, family, and community. Clinical laboratory experience included.
   PR: Nursing 102.

218. **NURSING VII.** 5 hrs. II.
   Designed to study the phenomena of pregnancy, labor, puerperim, and nursing needs of pregnant women and newborn infants under both normal and abnormal conditions.
   PR: Nursing 102.

220. **NURSING VIII.** 5 hrs. II.
   This course in Child Health Nursing includes the study of growth and development and is designed to assist the student to develop attitudes, knowledge and skills which will enable him/her to provide safe, technically competent, family-centered nursing care to children and adolescents.
   PR: Nursing 102.

**OFFICE ADMINISTRATION (OAD)**

Dr. Sara E. Anderson, Chairman

**COLLEGE OF BUSINESS AND APPLIED SCIENCE**

Professor Anderson
Associate Professor Toulouse
Assistant Professors Chapman, Overholt
Instructor Hughes

No auditors permitted in courses numbered 100, 200 or 300 without written permission of the chairman of Office Administration.

103. **TYPEWRITING.** 2 hrs. I, II.
Development of proper technique in the operation of a typewriter. Elementary business letter typing and adaptation of typing skill to personal use.

No credit if student has had one year or more of typewriting in high school.

104. INTERMEDIATE TYPEWRITING. 2 hrs. I, II.
Development of typing speed and accuracy. The typing of business letters, manuscripts, office forms, legal documents and statistical tables.
PR: Office Administration 103 or one year of high school typewriting with a minimum speed of 40 net words per minute.

105. ADVANCED TYPEWRITING. 2 hrs. I, II.
A terminal course for students preparing for employment in office occupations and for teaching typewriting. Advanced typing problems, techniques, knowledges, and skills involved in production typewriting.
PR: Office Administration 104.

201. SHORTHAND. 3 hrs. I, II.
Beginning course which presents fundamental principles of Gregg shorthand. Development of ability to take dictation of unpracticed material at a minimum rate of sixty words per minute for five minutes, and to transcribe with at least 98 per cent accuracy. Emphasis is placed on the development of pretranscription skills.
No credit if student has had one year or more of shorthand in high school.
PR or CR: Office Administration 103.

202. SHORTHAND-TRANSCRIPTION. 3 hrs. I, II.
Development of ability to record dictation of unpracticed material at a minimum rate of eighty words per minute for five minutes and to transcribe notes with at least 98 percent accuracy.
PR: Office Administration 104 and Office Administration 201.

301. ADVANCED DICTATION. 3 hrs. I.
Development of ability to record dictation of unpracticed material at a minimum rate of 100 words per minute for five minutes and to transcribe notes with at least 98 percent accuracy.
PR: Office Administration 105 and Office Administration 202.

302. TRANSCRIPTION FOR THE PROFESSIONAL SECRETARY. 3 hrs.
Transcription for the Professional Secretary: This course is to be taken the last semester the student is on campus. The emphasis is placed on increased knowledge and competency needed to assume high-level secretarial positions and to build a foundation required to pass the test for the Certified Professional Secretary Certificate. A minimum skill of 120 words per minute for three minutes with accurate transcription is required.
PR: Office Administration 301 and Office Administration 105.

305. OFFICE MACHINES. 3 hrs. I, II.
Duplicating, transcribing machines, calculators, adding-listing and small desk machines.
PR: Office Administration 103 or equivalent.

404. SECRETARIAL PROCEDURES. 3 hrs. II.
Development of a knowledge of business procedures, techniques, and customs with which a secretary should be familiar. Secretarial skills
integrated through problem-type assignments.
PR or CR: Office Administration 301, Office Administration 305, and 200 hours of office work experience.

421. OFFICE MANAGEMENT. 3 hrs. II.
Principles and practices, approached from the viewpoint of the office manager, through oral and written problems.
PR: Management 320.

425. COMMUNICATIONS FOR BUSINESS AND INDUSTRY. 3 hrs.
Emphasis is placed on the composition of effective business correspondence, writing business reports, making oral presentations, and developing proper procedures and skills necessary for conducting meetings.

495II-496II. READINGS FOR HONORS IN OFFICE ADMINISTRATION.
2-4 hrs.
Open only to students of outstanding ability. Both must be taken to receive credit. See Honors Students.

PHILOSOPHY (PHL)

Dr. Howard A. Slaatte, Chairman

COLLEGE OF ARTS AND SCIENCES
(Division of Humanities)

Professor Slaatte
Associate Professors Mininni, Plott

201. INTRODUCTION TO PHILOSOPHY. 3 hrs. I, II, S.
Questions and answers concerning the nature of existence and human values and how we come to know them.

303. ETHICS. 3 hrs. I.
A critical study of diverse moral norms, ideals and systems in theory and practice.

304. LOGIC AND SCIENTIFIC METHODS. 3 hrs. I, II, S.
The analysis of the correct principles of thinking and observation.

306. AESTHETICS. 3 hrs. II.
Examination of the qualities involved in the appreciation of beauty which serve as standards of taste.

311. SURVEY OF ANCIENT AND MEDIEVAL WESTERN PHILOSOPHY. 3 hrs. I.

312. SURVEY OF MODERN WESTERN PHILOSOPHY. 3 hrs. I.
PR: Philosophy 201 or 311 or 410.

315. THE DEVELOPMENT OF AMERICAN PHILOSOPHY. 3 hrs. S.
Great American thinkers from Jonathan Edwards to the present.

320. COMPARATIVE PHILOSOPHY. 3 hrs.
The relation of the world’s philosophies to the basic cultural and religious traditions of the world and to the development of the world community.
321. CURRENT PHILOSOPHICAL TRENDS. 3 hrs. II, S.
Selected reading in contemporary thought embracing such movements as pragmatism, positivism, realism and idealism.
PR: Philosophy 201 or 311 or 312.

407. WORLD HISTORY OF PHILOSOPHY, ANCIENT AND MEDIEVAL. 3 hrs.
Survey of patterns of synchronological developments of philosophies in India, China and the Mediterranean region.

408. 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.

410. THE PHILOSOPHICAL SOURCES OF AMERICAN CULTURE. 3 hrs. Alternate years, S.
Attention to the thinkers who are most directly influential in determining the basic American beliefs and ideals in the realms of religion, science, morality, politics, economics, and education.

419. RELIGIOUS THOUGHT IN THE WESTERN WORLD. 3 hrs.
An analysis of the major schools of religious thought as they have developed in the West.

420. RECENT AND CONTEMPORARY RELIGIOUS THOUGHT. 3 hrs.
A survey of the major currents of religious thinking in the twentieth century.

421-422. PHILOSOPHY SEMINAR. 3-3 hrs.
Shares study and research on a special topic as announced.
PR: Permission of the chairman.

425. 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. (Same as Political Science 425. Taught in Department of Political Science.)

426. 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. (Same as Political Science 426. Taught in Department of Political Science.)

451. PHILOSOPHY OF HISTORY AND CULTURE. 3 hrs.
Ancient and modern theories of the meaning and consequence of history and culture.
PR: Permission of chairman.

453. PHILOSOPHY OF SCIENCE. 3 hrs. II.
Reflections on crucial concepts of modern science relevant to philosophical issues in interpreting man and the universe, special attention given to epistemological and ontological problems of mathematics and physical and social sciences.
PR: Permission of department chairman.

455. THE PHILOSOPHY OF RELIGION. 3 hrs.
Theories of the nature and functions of religion, including the meaning of religious language and the problems of belief.
PR: Nine hours between philosophy and religion.
196  MARSHALL UNIVERSITY

465.  EXISTENTIALIST PHILOSOPHY.  3 hrs.
      A comparative study of the influence and emphases of outstanding
      existentialist philosophers from Kierkegaard to Satre and Heidegger.
      PR: 201 or 303.

495H-496H.  READINGS FOR HONORS IN PHILOSOPHY.  4; 4 hrs.
      Open only to philosophy majors of outstanding ability. Both
      courses must be taken in order to receive credit.
      See Honors Courses, page 50.

498.  DIRECTED READINGS IN PHILOSOPHY.  3 hrs.  I or II.
      Advanced research adaptable to the needs of the individual student.
      PR: Permission of department chairman.

PHYSICS AND PHYSICAL SCIENCES

Associate Professor Dills & Assistant Professor Oberly, Co-Chairmen

COLLEGE OF ARTS AND SCIENCES

(Division of Sciences)

Associate Professors Dils, Dumke, L. Plymale, Manakkil, Shanholtzer
Assistant Professors Oberly, Rutherford

PHYSICS

(PHY)

200.  INTRODUCTORY PHYSICS.  4 hrs.  I, II, S.
      A course which covers the basic principles of classical and modern
      physics for non-science majors. 3 lec.-2 lab.
      PR: Mathematics 110 or 120.

201-203.  GENERAL PHYSICS.  3; 3 hrs.  I, II, S.
      A course in general physics for all science majors with the exception
      of physics and engineering majors. 3 lec.
      PR: Mathematics 120 and 122 or equivalent.

202-204.  GENERAL PHYSICS LABORATORY.  1; 1 hr.  I, II, S.
      Required of all students taking Physics 201-203, unless exempt by
      special permission. 3 lab.

211-213.  PRINCIPLES OF PHYSICS.  4; 4 hrs.  I, II.
      A course in the basic principles of physics for physics, mathematics,
      and engineering majors. 4 lec.
      PR: Mathematics 131
      CR: Mathematics 230.

212-214.  LABORATORY METHODS IN PHYSICS.  1; 1 hr.  I, II.
      A laboratory course to accompany Physics 211-213. 3 lab.

300.  ELECTRICITY AND MAGNETISM.  3 hrs.  I.
      A course including the study of electrostatics, multiple expansions,
      magnetostatics, electromagnetic induction, introduction to Maxwell's
      equations and electromagnetic waves.  3 lec.
      PR: Physics 203 and Mathematics 231.
301. ELECTRICAL MEASUREMENTS. 2 hrs. I.
This course deals with the theory and use of instruments to measure electrical and magnetic quantities. 4 lab.
PR or CR: Physics 300.

302. ELECTRICITY AND MAGNETISM. 3 hrs. II.
A study of Maxwell's equations and electromagnetic waves, radiation theory, optional phenomena, and electrodynamics. 3 lec.
PR: Physics 300.

303. ELECTRICAL MEASUREMENTS. 2 hrs. II.
A continuation of Physics 301. 4 lab.
PR: Physics 301.

304. OPTICS. 3 hrs.
An intermediate course in geometrical and physical optics. 3 lec.
PR: Physics 203.

305. OPTICS LABORATORY. 2 hrs.
Accompanies or follows Physics 304. 4 lab.
PR: Physics 203 and 204.

308. THERMAL PHYSICS. 3 hrs.
A study of thermodynamics, kinetic theory of gases, and an introduction to statistical mechanics. 3 lec.
PR: Physics 203 and Mathematics 231.

314. ELECTRONIC PHYSICS. 3 hrs.
A study of electron tubes, transistors, and associated circuits. 3 lec.
PR: Physics 203 and 204.

315. ELECTRONICS LABORATORY. 2 hrs.
Accompanies or follows Physics 314. 4 lab.
PR: Physics 203 and 204.

320. INTRODUCTORY MODERN PHYSICS. 3 hrs. I, II.
(Formerly 401).
An introductory study of atomic and molecular theories, relativity, quantum theory, and nuclear physics. 3 lec.
PR: Physics 203 and Mathematics 131.

330. MECHANICS. 3 hrs. I. (Formerly 306).
An intermediate study of the fundamental principles of statics of particles and rigid bodies, momentum and energy, dynamics of particles, harmonic oscillations, and wave motion. 3 lec.
PR: Physics 203 and Mathematics 231.

331. MECHANICS. 3 hrs. II.
A study of rigid-body dynamics, central force motion, accelerated systems, and an introduction to the equations of Lagrange and Hamilton. 3 lec.
PR: Physics 330 and Mathematics 335.

420. ADVANCED MODERN PHYSICS. 3 hrs.
Introduction to relativity and quantum mechanics, with detailed exposition of special atomic and nuclear effects. 3 lec.
PR: Physics 320 and Mathematics 335.
421. MODERN PHYSICS LABORATORY. 2 hrs. (Formerly 405).
   A series of experiments in atomic physics and related fields to
   accompany or follow Physics 320 or 420. 4 lab.
   PR or CR: Physics 320 or 420.

462. NUCLEAR CHEMISTRY AND PHYSICS. 3 hrs. II.
   An introduction to the phenomena of nuclear chemistry and
   physics. 3 lec.
   PR: Physics 320 and Mathematics 231 or consent of instructor.

463. NUCLEAR CHEMISTRY AND PHYSICS LABORATORY. 2 hrs. II.
   Accompanies or follows Physics 462. 4 lab.
   PR: Physics 203, 204, and Mathematics 231.

470. MATHEMATICAL METHODS OF PHYSICS. 3 hrs.
   Applications of advanced topics in mathematics to problems in
   physics. 3 lec.
   PR: Physics 203 and Mathematics 335.

471-472. SEMINAR. 1 hrs. I, II.
   One semester required of physics majors.

476. SOLID STATE PHYSICS. 3 hrs.
   A study of such topics as the crystalline state, specific heats,
   electronic properties, superconductivity, and related properties of
   solids. 3 lec.
   PR or CR: Physics 320 or Chemistry 358 and Mathematics 231.

480. QUANTUM MECHANICS. 3 hrs. Offered on demand.
   A study of waves and particles, the Schroedinger and Heisenberg
   formulations, particles in potential fields, scattering and perturbation
   theories, and applications to atomic and nuclear structure. 3 lec.
   PR: Physics 470 or Chemistry 358 or consent of instructor.

482-483-484-485. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs. I, II, S.
   By permission of department chairman

PHYSICAL SCIENCE
(PS)

109-110. GENERAL PHYSICAL SCIENCE. 4; 4 hrs. I, II, S.
   The universe, energy and its various forms, force and motion. The
   crust of the earth, rocks, minerals, weather, and wave motion.
   PR: Mathematics Education 101 or equivalent.

400. ASTRONOMY. 3 hrs. I, S.
   A study of the stars and planets and galaxies, planetary motion,
   cosmology, cosmography. Designed to assist teachers and others to
   develop an interest in astronomy.
   PR: Physics 200-203 or Physical Science 109-110.

483. DEVELOPMENT OF SCIENTIFIC THOUGHT. 3 hrs. II, S.
   A study of the men and ideas which have influenced science: the
   philosophy of their periods; the economic conditions leading to
   scientific advancement; and the works of the foremost men in this field.
   PR: A total of twelve hours in physical science, physics, and
   chemistry courses.
COURSES OF INSTRUCTION

POLITICAL SCIENCE
(PSC)

Dr. Paul D. Stewart, Chairman

COLLEGE OF ARTS AND SCIENCES

Professors Choi, Perry, P. Stewart
Associate Professors Abbas, Neely
Assistant Professors Feuerle, Matz, Rosswurm, T. Stewart

201. AMERICAN NATIONAL GOVERNMENT AND POLITICS. 3 hrs. I, II, S.
The American federal government system, with emphasis on constitutionalism, governmental structure, and the political process.

202. AMERICAN STATE GOVERNMENT AND POLITICS. 3 hrs. I, II.
Study of the institutions, processes, and significance of this level of political life in America.

205. FUNDAMENTALS OF POLITICS. 3 hrs.
Comparative survey of major concepts; institutions; processes; and governments, including the British, French, and Soviet, as seminal models of modern political systems.

300. SCOPE AND METHOD IN POLITICAL SCIENCE. 3 hrs.
Study of the development of political science as a distinct science and discipline, and of the fundamentals of research in political science, such as bibliographical techniques; use of scientific method; textual and case-study approaches; and decision-making, power, communications and systems analysis.

301. URBAN GOVERNMENT AND POLITICS. 3 hrs.
Political systems in American cities and metropolitan areas.

303. AMERICAN POLITICAL PARTIES. 3 hrs.
Examination of the American party system, its origins, its development, and some of its major characteristics, as well as such topics as party organization, leadership recruitment, campaigns and elections, party impact on public policy, and party reform.
PR: Political Science 201 or 202.

307. PUBLIC OPINION AND PROPAGANDA. 3 hrs.
Study emphasizing the major determinants of attitudes and of opinion formation and change, analysis and measurement of opinions, and the linkage between opinions and official decision-making.

309. FUNDAMENTALS OF INTERNATIONAL RELATIONS. 3 hrs.
Survey of major concepts and approaches in the study of international relations and analysis of processes, institutions, strategies, and trends in world politics.

333. PUBLIC ADMINISTRATION. 3 hrs.
Introduction to modern theories of administration; the relation of administration to the political system and process; and analysis of administrative organizations and functions, including planning, personnel, and finance.
PR: Political Science 201 or 202.
200 MARSHALL UNIVERSITY

370. THE POLITICS OF TRANSITIONAL SOCIETIES. 3 hrs.
Study of major concepts, institutions, and processes in political modernization, with comparative illustrations from various developing nations.

376. BLACK POLITICS. 3 hrs.
Study emphasizing power structures in black sub-committees, dissent and protest, problems and trends, and the uniqueness of black politics as compared with the politics of other ethnic groups.

381. THE AMERICAN LEGISLATIVE PROCESS. 3 hrs.
Structure and behavior of American national and state legislative systems; the impact of constituencies, parties, interest groups, interpersonal relations, and other factors on the legislative policy-making process; the role of the legislature as a subsystem in the larger political system; and problems and trends.
PR: Political Science 201 or 202.

383. THE AMERICAN EXECUTIVE PROCESS. 3 hrs.
Study of governmental executives in the American political system, with emphasis on the president, including analysis of constitutional status and powers, recruitment, administrative responsibilities, political and legislative leadership, accountability, and problems and trends.
PR: Political Science 201.

400-401-402-403-404. 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.

405. 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.
PR: Political Science 309.

406. INTERNATIONAL POLITICS. 3 hrs.
Study of major issues in world politics, with emphasis on theoretical approaches, problems of war and peace, and contemporary trends.
PR: Political Science 309.

407. ASIAN POLITICS. 3 hrs.
Study of such nations as India, China, Japan, and Korea in the contemporary setting.

408. MIDDLE EASTERN POLITICS. 3 hrs.
Study of the Arab States and such nations as Israel, Iran and Turkey in the contemporary setting.

409. WESTERN DEMOCRATIC POLITICS. 3 hrs.
Study of such nations as Canada and those of Western Europe, particularly Great Britain and France.

410. EUROPEAN COMMUNIST POLITICS. 3 hrs.
Study of the Soviet Union and Eastern Europe.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>411</td>
<td>LATIN AMERICAN POLITICS</td>
<td>3 hrs.</td>
<td>Study of selected Latin American nations in the contemporary setting.</td>
</tr>
<tr>
<td>415</td>
<td>INTERNATIONAL LAW</td>
<td>3 hrs.</td>
<td>Study of theories, origins, sources, development, present state, and trends of international law as a factor in various aspects of international politics. PR: Political Science 309.</td>
</tr>
<tr>
<td>418</td>
<td>FOREIGN POLICIES OF WESTERN NATIONS</td>
<td>3 hrs.</td>
<td>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.</td>
</tr>
<tr>
<td>419</td>
<td>FOREIGN POLICIES OF COMMUNIST NATIONS</td>
<td>3 hrs.</td>
<td>Study of 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.</td>
</tr>
<tr>
<td>421</td>
<td>FOREIGN POLICIES OF DEVELOPING NATIONS</td>
<td>3 hrs.</td>
<td>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.</td>
</tr>
<tr>
<td>425</td>
<td>ANCIENT AND MEDIEVAL POLITICAL THOUGHT</td>
<td>3 hrs.</td>
<td>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.</td>
</tr>
<tr>
<td>426</td>
<td>MODERN POLITICAL THOUGHT</td>
<td>3 hrs.</td>
<td>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.</td>
</tr>
<tr>
<td>427</td>
<td>RECENT POLITICAL THOUGHT</td>
<td>3 hrs.</td>
<td>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.</td>
</tr>
<tr>
<td>429</td>
<td>THE POLITICS OF CONFLICT AND REVOLUTION</td>
<td>3 hrs.</td>
<td>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.</td>
</tr>
<tr>
<td>433</td>
<td>PUBLIC ADMINISTRATION AND POLICY DEVELOPMENT</td>
<td>3 hrs.</td>
<td>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. PR: Political Science 201 or 202.</td>
</tr>
</tbody>
</table>
| 440        | POWER IN AMERICAN SOCIETY                                 | 3 hrs.       | Study of the distribution of power in American society at the
community and national level, with emphasis on the various methods employed by social scientists to portray the community and national power structures.

461. THE FUNCTIONAL DIMENSION 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.

485. AMERICAN CONSTITUTIONAL LAW: POWERS AND RELATIONSHIP. 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.
PR: Political Science 201.

486. 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.
PR: Political Science 201.

49SH-496H. READINGS FOR HONORS IN POLITICAL SCIENCE.
2-4: 2-4 hrs. I, II.
Open only to political science majors of outstanding ability. Both courses must be taken in order to receive credit.
See Honors Courses.

PSYCHOLOGY (PSY)

Dr. George Ward, II., Chairman

COLLEGE OF ARTS AND SCIENCES
(Division of Social Sciences)

Professors Ward, Wolf
Associate Professor Chezik
Assistant Professors Alsip, Baker, Chait, Collen, Walton
Instructor Thomas

201. GENERAL PSYCHOLOGY. 3 hrs. I, II, S.
The principles and methods in the scientific study of behavior.

204. PERSONALITY AND ADJUSTMENT. 3 hrs. I, II, S.
Modes of personal and social adjustment; assessment and treatment techniques.
PR: Psychology 201.

223. INTRODUCTION TO PSYCHOLOGICAL METHODS. 3 hrs. I, II, S.
Orientation to the philosophy of science; survey of methods in behavior study; elementary statistics.
PR: Psychology 201.
302. SOCIAL PSYCHOLOGY. 3 hrs. I, II.
Psychological interrelationships in group behavior.
PR: Psychology 201.

311. DEVELOPMENTAL PSYCHOLOGY: INFANCY TO OLD AGE. 3 hrs. I, II, S.
Psychological characteristics and personal and social problems of developmental periods of life span.
PR: Psychology 201.

323. EXPERIMENTAL PSYCHOLOGY OF LEARNING AND MOTIVATION. 3 hrs. I.
Methodology and research in learning and motivation. 2 lec-2 lab.
PR: Psychology 223.

324. EXPERIMENTAL PSYCHOLOGY OF SENSATION AND PERCEPTION. 3 hrs. I, II.
Methodology and research in sensory and perceptual processes. 2 lec-2 lab.
PR: Psychology 223.

340. PHYSIOLOGICAL PSYCHOLOGY. 3 hrs. II.
The relationships between physiological functions and biochemical processes and behavior.
PR: Psychology 201.

402. ADVANCED SOCIAL PSYCHOLOGY. 3 hrs. II.
Advanced study of selected topics in social psychology.
PR: Psychology 223, Psychology 302 or consent of instructor.

406. PSYCHOMETRICS. 3 hrs. I, S.
The nature of intelligence; interpreting mental test data.
PR: Psychology 223, 311; for education majors, Education 435 and consent of instructor.

408. ABNORMAL PSYCHOLOGY. 3 hrs. II.
A bio-social approach to the nature, conditions and modification of ineffective human behavior.
PR: Psychology 311.

416. PSYCHOLOGY OF LEARNING. 3 hrs. II.
Critical study of the major theories of learning and the related research.
PR: Twelve hours of psychology including Psychology 323.

417. PSYCHOLOGICAL STATISTICS. 3 hrs. II.
An intermediate level presentation of descriptive and inferential statistics as applied in behavioral research. 2 lec-2 lab.
Psychology 323, 324, 406; Mathematics 120.

418. PSYCHOLOGY OF PERSONNEL. 3 hrs. I, II.
Psychological principles and methods applied to functions in personnel administration.
PR: Psychology 201.

460. HISTORY AND SYSTEMS OF PSYCHOLOGY. 3 hrs. I.
PR: Twelve hours of psychology.
490. PROBLEMS IN PSYCHOLOGY. 1-4 hrs.
Independent study and research.
PR: Senior standing, 20 hours of psychology, and consent of department chairman.

495H-496H. READINGS FOR HONORS IN PSYCHOLOGY. 4; 4 hrs. I, II.
Open only to psychology majors of outstanding ability. Both courses must be taken to receive credit.
See Honors Courses.

SCIENCE EDUCATION
Listed under Curriculum and Instruction

SOCIAL STUDIES
(SOS)
Dr. Edwin Cubby, Chairman

COLLEGE OF EDUCATION

Professors Cubby, Brown
Associate Professors Cleveland, Coffey
Assistant Professors Burchett, Cox, Gruber, Karr, Paynter, Riddel

104. THE GREAT CIVILIZATIONS TO 1300. 3 hrs. I, II, S.
A comparative study focusing on the cultures of India, China, Islam, and the West.

105. THE WORLD AND THE RISE OF THE WEST, 1300-1914. 3 hrs. I, II, S.
The foundations of Western expansion and its global impact.

106. THE TWENTIETH CENTURY WORLD. 3 hrs. I, II, S.
Major developments and trends since 1914 and their implications for the future.

201-202. FUNDAMENTAL SOCIAL PROBLEMS. 3; 3 hrs. I, II, S.
An interdisciplinary approach emphasizing the sociological aspects of major problem areas in the first course, and the political and economic aspects of major problem areas in the second course.

295. THE NEGRO IN AMERICAN CULTURE. 3 hrs. I.
The Negro's role in American history, literature, music, art, theater, and the nature of racial problems as viewed by the sociologist.

296. THE NEGRO: MEN AND ISSUES IN AMERICA. 3 hrs. II.
Political, economic, social, psychological, and philosophical aspects of American racial problems, past and present.

303. WEST VIRGINIA HISTORY, GEOGRAPHY AND GOVERNMENT.
3 hrs. I, II, S.

482-483-484-485. SPECIAL TOPICS. 1-3; 1-3; 1-3; 1-3 hrs. I, II, S.
COURSES OF INSTRUCTION

495H-496H. READINGS FOR HONORS IN SOCIAL STUDIES.
2-4; 2-4 or not less than 6 hrs. total credit.
See Honors Courses page 50.

SOCIOMETRY AND ANTHROPOLOGY

Dr. O. Norman Simpkins, Chairman

COLLEGE OF ARTS AND SCIENCES
(Division of Social Sciences)

Professors Simpkins, Comfort, Sill
Associate Professor Singh
Assistant Professor Perry

ANTHROPOLOGY
(ANT)

201. CULTURAL ANTHROPOLOGY. 3 hrs.
Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies.

343. PRIMITIVE CULTURES. 3 hrs.
Comparative analysis of selected small-scale cultural systems.
PR: Anthropology 301.

405. COMMUNITY DEVELOPMENT. 3 hrs.
Principles of applied anthropology in community development.
PR: Six hours of anthropology and sociology or departmental permission.

426. AFRICAN CULTURES. 3 hrs.
Comparative analysis of the tribal cultures of Africa.
PR: Six hours of anthropology or departmental permission.

427. ETHNIC RELATIONS. 3 hrs.
Analysis of cultural contact situations with emphasis on the role of Western European cultures.
PR: Six hours of anthropology or departmental permission.

430. THE AMERICAN INDIAN. 3 hrs.
Comparative analysis of Indian tribal cultures of the Americas.
PR: Six hours of anthropology or departmental permission.

453. CULTURE AND PERSONALITY. 3 hrs. (Formerly Ant. 630)
Analysis of the relations between cultural, social, and personality systems.
PR: Six hours of anthropology or departmental permission.

455. APPALACHIAN CULTURE I. 3 hrs.
Analysis of the culture of Appalachia from its beginnings to 1870.
PR: Six hours of anthropology or departmental permission.

456. 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.
PR: Anthropology 455.

457. APPALACHIAN CULTURE II. 3 hrs.
Analysis of cultural changes in Appalachia from 1870 to the present.
PR: Anthropology 455.

458. 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 456.

SOCIOLOGY (SOC)

101-102. INTRODUCTION TO THE BEHAVIORAL SCIENCES. 3; 3 hrs.
An interdisciplinary introduction to the basic behavioral sciences. (Open to freshmen only.)

108. MARRIAGE RELATIONS. 3 hrs. (Formerly Sociology 208)
A functional course in the personal, social, and cultural factors involved in courtship and marriage. (May not be taken for credit on major.)

200. INTRODUCTORY SOCIOLOGY. 3 hrs.
Introduction to the study of human society. (Open to freshmen).

205. COMMUNITY ORGANIZATION. 3 hrs. (Formerly Sociology 305)
Comparative analysis of the sociological social and cultural organization of various types of communities with emphasis on communities in large-scale societies.

300. SOCIAL ORGANIZATION. 3 hrs. (Formerly Principles of Sociology.)
Analysis of sociological conceptual systems and theories. (Required of all majors.)
PR: Sociology 101 and 102 or 200 or 505, 201.

302. SOCIAL PSYCHOLOGY. 3 hrs.
(Same as Psychology 302.)
PR: Psychology 201.

307. PUBLIC OPINION AND PROPAGANDA. 3 hrs.
(Same as Political Science 307.)

310. SOCIAL BEHAVIOR. 3 hrs.
The sociology of the individual.
PR: Sociology 101 and 102, or 200.

311. DEVIANT BEHAVIOR. 3 hrs.
Study of the basic concepts and theories of deviant social behavior and the correlative social disorganization.
PR: Soc. 302 or 310.

313. CONTEMPORARY SOCIAL ISSUES. 3 hrs.
Sociological analysis of current social issues. Specific issues studied will vary from time to time.
PR: Sociology 101 and 102 or 200 or Social Studies 201.

314. SOCIAL DISORGANIZATION. 3 hrs.
Analysis of social disorganization and its consequences in society.
PR: Sociology 300.

316. SOCIAL WELFARE. 3 hrs. (Formerly Sociology 409)
The development of social welfare as a contemporary social institution and of social work as a profession.
PR: Sociology 205.
CR: Sociology 317.

317. FIELD STUDY I. 3 hrs. (Formerly Sociology 431)
Supervised field experience in a welfare agency or community action organization with regular conference with instructor. Two afternoons each week plus one class hour. Must be registered for Sociology 316.
PR: Sociology 205 and permission of instructor.
CR: Sociology 316.

318. SOCIAL WORK. 3 hrs. (Formerly Sociology 410)
Preprofessional introduction to social case work and to social group work.
PR: Sociology 316 and 317
CR: Sociology 319.

319. FIELD STUDY II. 3 hrs. (Formerly Sociology 432)
Supervised field experience in a welfare agency or community action organization with regular conferences with instructor. Two afternoons each week plus one class hour. Must be registered for Sociology 410.
PR: Sociology 316, 317 and permission of instructor.
CR: Sociology 318.

320. CRIMINOLOGY. 3 hrs.
Introduction to the social aspects of criminal behavior.
PR: Sociology 311.

325. SOCIOLOGY OF THE NEGRO. 3 hrs.
Sociological analysis of the Negro in American society.
PR: Sociology 101 or 102 or 200 or Social Studies 201.

332. RURAL-URBAN COMMUNITIES. 3 hrs.
Sociology of rural and urban communities with emphasis on the process of urbanization.
PR: Sociology 101 and 102, 200, or 205.

342. AMERICAN SOCIETY. 3 hrs.
Sociological analysis of the basic social and cultural features of contemporary American society.
PR: Sociology 101 or 102 or 200.

344. SOCIAL RESEARCH I. 3 hrs.
Introduction to systematic sociological research methodology.
PR: Sociology 300.
CR: Sociology 345.
345. SOCIAL STATISTICS I. 3 hrs.
   Introduction to statistical analysis of social data.
   PR: Mathematics 125.
   CR: Sociology 344.

352. UTOPIAN SOCIOLOGY. 3 hrs.
   Comparative analysis of the social organization and structure of
   Utopias and other planned social systems.
   PR: Sociology 300.

400. HUMAN ECOLOGY. 3 hrs.
   Study of the ecological structure and processes of human
   communities, regions, and areas.
   PR: Sociology 300 or departmental permission.

401. POPULATION PROBLEMS. 3 hrs.
   Study of population characteristics, growth, and trends with
   emphasis on the social and cultural implications.
   PR: Six hours of sociology or departmental permission.

403. SOCIAL RESEARCH II. 3 hrs.
   Intermediate social research methodology with emphasis on
   research design.
   PR: Sociology 344 and 345, or departmental permission.

408. THE FAMILY. 3 hrs.
   Theoretical analysis of the family as a primary social institution.
   PR: Six hours of sociology or departmental permission.

412. SMALL GROUPS. 3 hrs.
   Study of the dynamics of small groups with emphasis on role
   theory.
   PR: Sociology 300 or departmental permission.

413. COLLECTIVE BEHAVIOR. 3 hrs.
   Analysis of non-rational uninstitutionalized social behavior.
   PR: Six hours of sociology or departmental permission.

421. SOCIOLOGICAL THEORY I. 3 hrs.
   The development of social thought and early sociological theory.
   PR: Six hours of sociology or departmental permission.

423. CONFLICT SOCIOLOGY. 3 hrs.
   Analysis of theories of the conflict school of sociology and their
   application in research.
   PR: Sociology 300.

429. SOCIAL LEGISLATION. 3 hrs.
   Contemporary social welfare legislation and its social implications.
   PR: Six hours of sociology or departmental permission.

433. INDUSTRIAL SOCIOLOGY. 3 hrs.
   Study of the organization and structure of the work plant as a
   social system; the meaning and organization of work; managerial
   functions; management-labor relations; and human relations in
   industry.
   PR: Sociology 412 or departmental permission.
435. JUVENILE DELINQUENCY. 3 hrs.
Theories of delinquency causation and prevention; organization and functions of social agencies operating in the field.
PR: Sociology 311 or departmental permission.

436. AGING IN WESTERN CULTURE. 3 hrs.
Study of the problems associated with maturity, retirement, and old age in contemporary industrial societies.
PR: Six hours of sociology or departmental permission.

439. SOCIAL STRATIFICATION. 3 hrs.
Analysis of various theories of stratification, with emphasis on the American class system.
PR: Six hours of sociology or departmental permission.

442. METROPOLITAN COMMUNITIES. 3 hrs.
Sociology of metropolitan communities.
PR: Sociology 200, Sociology 332, or departmental permission.

445. SOCIAL STATISTICS II. 3 hrs.
Intermediate level statistical analysis, including analysis of variance and covariance. 2 lec.-2 lab.
PR: Sociology 345 or departmental permission.

446. SOCIAL INTERVENTION. 3 hrs.
Study of the major approaches used in the alleviation of social problems: (1) working with the individual and/or family; (2) working with groups; and (3) working with the community.

447. FIELD STUDY III. 3 hrs.
Supervised field experience in a welfare agency or community action organization with regular conferences with instructor. Two afternoons each week plus one class hour.

448. CHILD WELFARE. 3 hrs.
Survey of the development of children’s services from colonial times to the present.

449. FIELD STUDY IV. 3 hrs.
Supervised field experience in a welfare agency or community action organization with regular conferences with instructor. Two afternoons each week plus one class hour.

450. SOCIOLOGY OF RELIGION. 3 hrs.
Sociological analysis of religion as a social institution.
PR: Six hours of sociology or departmental permission.

481-482. INDEPENDENT STUDY. 2-4; 2-4 hrs.
Individual study of topics not offered in regularly scheduled courses. Advance permission required.
PR: Senior majors only.

495II-496II. READING FOR HONORS IN SOCIOLOGY. 2-4; 2-4 hrs. I, II.
Open only to sociology majors of outstanding ability. Both courses must be taken to receive credit.
See Honors Courses, page 50.
SPEECH
(SPH)

Dr. Robert D. Olson, Chairman

COLLEGE OF ARTS AND SCIENCES
(Division of Humanities)

Professors Harbold, Garrett, Hoak, Hope, Novak, Olson, Page
Clinical Professor Touma
Associate Professors Johnson, Kearns, Kellner
Assistant Professors Denman, East, Harrod, Lustig,
McCarnes, Milicia, Smith
Instructors Chezik, Cummings, Edmunds, Greenwood, Murphy, Sullivan

103. FUNDAMENTALS OF SPEECH-COMMUNICATION. 3 hrs. I, II.
   Not open to juniors and seniors.

202. INTRODUCTION TO PUBLIC ADDRESS. 3 hrs. I, II.
   Source credibility, lines of reasoning, psychological appeals, attention factors, methods of topic and audience analysis, style and the application of this basic theory to the practice of various forms of public address.

205. ARGUMENTATION AND DEBATE. 3 hrs. I, II.
   Basic principles of argument; practice in discussion and debate. Recommended but not a prerequisite for intercollegiate debating.
   PR: Speech 103.

207. BUSINESS AND PROFESSIONAL SPEAKING. 3 hrs. I, II.
   The use of conversation, conference speaking, and public speaking in business and the professions, with primary emphasis upon the first two types of speaking, including parliamentary law.
   PR: Speech 103.

209. INTRODUCTION TO THEATRE. 3 hrs.
   Fundamentals of theatre arts.

210. ACTING. 3 hrs. I, II.
   Working theories of acting. Development of technical skill through use of various techniques.

225-226. INTERCOLLEGIATE DEBATE. 1 hr. I, II.
   PR: Permission of instructor.

227-228. ACTING OR DIRECTING IN UNIVERSITY THEATRE PRODUCTIONS. 1 hr. each.
   Those cast in major roles of Marshall University Theatre productions, chosen by audition in open competition from the entire student body, are eligible to take this course. Also eligible are student directors.
   PR: Permission of instructor only after tryouts which are held in the first week of the semester.

230. INTRODUCTION TO RADIO AND TELEVISION. 3 hrs. I, II.
   A survey course which provides an overview of the field of broadcasting.
   PR: Speech 103.
231. RADIO PRODUCTION AND Broadcast SPEECH. 3 hrs. II.
Training in the operation of radio equipment, microphone technique, tape editing and radio production. One hour of laboratory studio work at WMUL-Radio is required.
PR: Speech 230.

233. INTRODUCTION TO TELEVISION PRODUCTION. 3 hrs. I, II.
An introduction to the fundamentals of television production dealing with cameras, microphones, lighting, and staging.
PR: Speech 103 and 230.

237-238. PRACTICE IN BROADCASTING. 1 hr. each. I, II.
Staff responsibility on campus broadcast facilities, WMUL FM or WMUL TV.
PR: Written permission before registration and the satisfactory completion of one year of service on WMUL.

239. HISTORY AND DEVELOPMENT OF FILM. 3 hrs. II.
To acquaint the student with the historical development of the motion picture as an art form from its first development to present day. To analyze the technical, social, economic and cultural factors which have influenced the medium.
PR: Speech 103 and Speech 230 or permission of instructor.

240. VOICE TRAINING. 3 hrs. I, II.
Theory and practice of speech production and improvement.
PR: Speech 103.

250. STORYTELLING AND DRAMATIZATION. 3 hrs. I, II.
Training in creative dramatics and telling of stories primarily for teachers of nursery schools, kindergartens and elementary schools.
PR: Speech 103.

301. PARLIAMENTARY PROCEDURES. 1 hr. I, II.
A study of the rules of parliamentary law with practice in their usage.

305. PRINCIPLES OF PUBLIC ADDRESS. 3 hrs. I, II.
Beginning course, open to juniors and seniors who have not had Speech 103 or 202, or permission of department chairman.

306. ADVANCED PUBLIC SPEAKING. 3 hrs. I, II.
Advanced forms and practice of exposition and persuasion.
PR: Speech 103 or 202 or 305.

307. ORAL COMMUNICATION IN SOCIAL CRISSES. 3 hrs.
Investigation of the functions, ethics, responsibilities and social impact of oral communication in periods of social unrest, with particular emphasis on black rhetoric.
PR: Speech 103.

312-313. PLAY PRODUCTION. 2 1/2 hrs. I, II.
Elementary scene design, construction painting, lighting, make-up, work coordinated with University Theatre production.

320. ORAL INTERPRETATION OF LITERATURE. 3 hrs. I, II.
The fundamentals of reading, analyzing, and interpreting literature.
PR: Speech 103 and 240.
321. DRAMATIC READING AND PLATFORM ART. 3 hrs.
   Oral interpretation with emphasis on public performance.
   PR: Speech 320.

325-326. INTERCOLLEGIATE DEBATE. 1 hr. I, II.
   Continuation of Speech 225-226.
   PR: Permission of instructor.

327-328. ACTING OR DIRECTING IN UNIVERSITY THEATRE PRODUCTIONS. 1 hr. each.
   Those cast in major roles of Marshall University Theatre productions, chosen by audition in open competition from the entire student body, are eligible to take this course. Also eligible are student directors.
   PR: Permission of instructor only after tryouts which are held in the first week of the semester.

330. RADIO, TELEVISION AND SOCIETY. 3 hrs. I.
   The unusual effects of these agents upon society and their place in modern communications.
   PR: Speech 230.

331. RADIO-TELEVISION ANNOUNCING AND NEWSCASTING. 3 hrs. II.
   Specialized training in the interpretive skills of announcing and newscasting.
   PR: Speech 240.

332. RADIO-TELEVISION CONTINUITY WRITING. 3 hrs. I.
   Analysis of the forms and practices in the writing of commercials, music and talk continuities, with special emphasis on the difference between writing for broadcast and writing for the print media.
   PR: Speech 230.

333. HISTORY OF BROADCASTING. 3 hrs. II.
   A survey of the history of radio and television in the United States, including the development of educational broadcasting.
   PR: Speech 102 and 230.

337-338. PRACTICE IN BROADCASTING. 1 or 2 hrs. I, II.
   Staff responsibility on campus broadcast facilities WMUL-FM or WMUL-TV.
   PR: Written permission before registration and the satisfactory completion of one year of service on WMUL.

370. LANGUAGE AND SPEECH DEVELOPMENT. 3 hrs.
   Sequential patterns in the acquisition of language and speech in relationship to general child development.

403. PLAY DIRECTION. 3 hrs. I.
   Primarily for those who will produce plays in schools, churches, and communities.
   PR: Speech 210, 312, 313, except for language arts majors.

405. ADVANCED ACTING. 3 hrs. II.
   Styles of acting. Interpretation of roles from classical, romantic, and modern dramas.
407. PERSUASION. 3 hrs.
A study of persuasive methods with special attention to the
techniques of well-known contemporary speakers.
PR: 202 or 205 or 207.

408. DISCUSSION AND CONFERENCE LEADERSHIP. 3 hrs.
Advanced practical problems in group discussion, symposium,
panel, public forum, and conference. The place of public discussion in
the democratic process.

418. 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.

420. VOICE IN COMMUNICATION. 3 hrs.
Theories of voice production and control; a survey of problems as
they relate to phonation and vocal resonance with an emphasis upon
voice disorders, laryngectomy and cleft palate.
PR: Speech 370, 429, 439.

422. SPEECH IN COMMUNICATION. 3 hrs.
Communication theories underlying the processing and monitoring
of speech signals; a survey of speech disorders as a disruption in this
system with emphasis upon articulation and stuttering.
PR: Speech 370, 429, 439.

424. DIAGNOSTIC PROCESSES WITH COMMUNICATION DISORDERS.
3 hrs.
Evaluation of procedures for securing behavioral information to
differentiate among various communication disorders; a study of
symptom complexes. Observation and practice in evaluating
communication disorders. 2 lec-2 lab.
PR: Speech 420, 422, 425, 460.

425. LANGUAGE IN COMMUNICATION. 3 hrs.
Theories of language as communicative behavior; linguistic
processes in language; a comparison between normal and impaired
language with emphasis on aphasia in children and adults.
PR: Speech 370, 429, 439.

426. CLINICAL PROBLEMS WITH COMMUNICATION DISORDERS.
3 hrs.
Case study method; detailed analysis of diagnostic and therapeutic
procedures appropriate to an assigned clinic patient.
PR: Speech 470.

427. CLINICAL PRACTICUM WITH SCHOOL CHILDREN. 6 hrs.
Supervised clinical practice with school-aged children; fulfills
student teaching requirements for West Virginia Certification in Speech
and Hearing.
PR: Speech 468 and 470.

429. ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING
MECHANISM. 3 hrs.
Study of the anatomical and physiological characteristics of the
normal speech and hearing mechanisms.
PR: Speech 370.
430. BROADCAST DOCUMENTARY AND DRAMATIC WRITING. 3 hrs. II.
Writing techniques for preparing scripts for the documentary, film
and dramatic show.
PR: Speech 103 and 332.

431. ADVANCED TELEVISION PRODUCTION. 3 hrs. I, II.
Advanced theory and practice in the elements of producing the
complete television program.
PR: Speech 233.

432. USE OF RADIO AND TELEVISION IN THE CLASSROOM. 3 hrs. II.
Development of instructional broadcasting; production and
utilization of instructional programs.

433. RADIO AND TELEVISION PROGRAMMING. 3 hrs. II.
Planning the individual program for radio and television broadcast.
A study of the fundamentals of program structure. Analysis of program
forms of local and network shows.
PR: Speech 230.

435. BROADCAST LAW AND REGULATION. 3 hrs. II.
Development and present status of the legal structure of broad­
casting in the United States.
PR: Speech 103 and 230.

436. 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. Including recent
trends in international broadcast systems and communications
satellites.
PR: Speech 103 and 230.

437. BROADCAST MANAGEMENT AND ECONOMICS. 3 hrs. I.
Problems and practices in the organization of and operation of
radio and television stations, including study of the economics of the
broadcast industry.
PR: Speech 230.

439. PHONETICS. 3 hrs.
Introduction to the science of speech sounds; study of the phonetic
alphabet and practice in broad transcription.
PR: Speech 240 or permission.

440. PLAYWRITING. 3 hrs.
Principles of dramatic construction. Writing of one-act plays and
sketches for experimental and public performance.

445. CHILDREN'S THEATRE. 3 hrs.
Theory, direction, and staging of plays for children. Creative
dramatics is included. Laboratory work on a production for the public
and individual design-productions.

446. THEATRE HISTORY. 3 hrs.
A survey of mankind's activities in the theatre from primitive times
to the present.
447. SCENE DESIGN. 3 hrs.
   The fundamental aesthetic and technical principles of staging are
   applied to the educational theatre. Specific attention is given to the
   generation of a design from the play manuscript. Laboratory work is
   provided through the University Theatre.
   PR: Speech 312 and 313.

448. ADVANCED TECHNICAL THEATRE. 3 hrs.
   Advanced work in technical phases of mounting a stage production.
   PR: Speech 312-313.

450. DIRECTION OF SPEECH ACTIVITIES. 3 hrs. II.
   For those responsible for extra-curricular speech: debate, extempore
   speaking, oral reading, discussion, oratory.
   PR: 15 hours of speech or permission of department chairman.

460. HEARING IN COMMUNICATION. 3 hrs.
   Psychophysical processes underlying auditory perception; basic
   audiometry; a survey of hearing disorders.
   PR: Speech 370, 429, 439.

463. METHODS AND MATERIALS WITH HEARING DISORDERS. 3 hrs.
   Auditory training and speech reading procedures with the hearing
   handicapped.
   PR: Speech 460, 470.

468. METHODS AND MATERIALS WITH SPEECH DISORDERS. 3 hrs.
   Organization and administration of school programs for speech
   and/or hearing handicapped children; therapeutic procedures in a
   school setting.
   PR: By permission only.

470. THERAPEUTIC PROCESSES WITH COMMUNICATION DISORDERS. 3 hrs.
   A study of interpersonal behaviors involved in a therapeutic
   relationship; a survey of learning theories relative to speech and hearing
   therapy procedures. 2 lec-2 lab.
   PR: Speech 420, 422, 425, 460.

475. 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: By permission only.

479-480. SPECIAL TOPICS IN SPEECH. 1-3 hrs. I, II.
   PR: Permission of department chairman.

495H-496H. READINGS FOR HONORS IN SPEECH. 4; 4 hrs. I, II.
   Open only to speech majors of outstanding ability. Both courses
   must be taken to receive credit.
   See Honors Courses.
Seminars designed to provide gifted university students an exciting and demanding course of study: a Great Issues curriculum which cuts across many areas of knowledge and permits the pursuit of individual research projects. A student may enroll for three to twelve hours in interdisciplinary honors seminars and for a maximum of eight hours in departmental readings for honors. No honors seminar serves as a prerequisite for any of the other seminars, which may be taken individually or sequentially. Qualified students become eligible to graduate with honors in Interdisciplinary Studies, Departmental Honors, or both.

195H-196H. INTERDISCIPLINARY HONORS. 3; 3 hrs.
Open to distinguished freshmen selected on the basis of their ACT scores, high school records, and a personal interview with the Director of University Honors.

395H-396H. INTERDISCIPLINARY HONORS. 3; 3 hrs.
Open to distinguished sophomores and upper classmen of the four undergraduate colleges and schools. Such students may apply for admission to the seminar through the Director of University Honors.

495H-496H. DEPARTMENTAL READINGS FOR HONORS. 6-8 hrs. total.
See individual departmental listings.

VOCATIONAL-TECHNICAL EDUCATION (VTE)

Dr. Charles I. Jones, Chairman

COLLEGE OF EDUCATION

Professor Jones
Associate Professor Moore
Assistant Professors Allen, Harris, Olson

400. 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.

406. 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.

410. 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 multi-media approaches to facilitate student achievement of the stated objectives to a specified level.

420. 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; consideration of factors which must be considered in selection of the cooperative design for certain educational levels and for student groups with special needs.

422. 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.

430. OCCUPATIONAL EDUCATION FOR THE DISADVANTAGED. 2-3 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.

479. 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).

482-483-484-485. SPECIAL TOPICS. 1-3; 1-3; 1-3; 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.
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, DEAN A., Instructor in Biological Sciences, 1972
M.S. 1971, Marshall University; graduate study, West Virginia University

ADKINS, HOWARD G., Assistant Professor of Geography, 1970
Ph.D. 1972, University of Tennessee

ADKINS, JANICE T., R.N., Instructor in Nursing, 1972
B.A. 1960, Oklahoma Baptist University; graduate study, Ball State University

ADKINS, JOAN F., Associate Professor of English, 1963
Ph.D. 1972, University of Utah

ADKINS, NEAL G., Assistant Professor of Accounting, 1969
M.A. 1968, Marshall University, CPA 1973; graduate study, Marshall University

AKKIHAL, 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, EARLINE S., Instructor in Art, 1970
M.A. 1966, Marshall University; graduate study, Marshall University, 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

ARDINGER, BRUCE J., Instructor in English, 1971
M.A. 1968, Duquesne University; graduate study, Kent State University

ARIELGER, HOMER, Director of Institutional Research and Professor of Education, 1962
Ed.D. 1962, Indiana University

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ARNOLD, GEORGE T., JR., Assistant Professor of Journalism, 1968
M.A. 1965, Marshall University; graduate study, Marshall University, Ohio University

ASH, STANLEY W., Associate Professor of Biological Sciences, 1956
M.A. 1954, Marshall University; graduate study, University of Pennsylvania, Florida State University

ASHER, MARY S., R.N., Assistant Professor of Nursing, 1967
M.N. 1945, Case Western Reserve University; M.A. 1968, Marshall 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

BAILEY, LOUISE S., Assistant Professor of English, 1961
M.A. 1953, University of Florida; graduate study, University of Tennessee, University of Florida

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, PHILIP 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, LAURENCE 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

BELKNAP, LARRY K., Instructor in Physical Education, 1972
M.S. 1972, Marshall University

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

BIAS, CHARLES V., Assistant Professor of History, 1967
M.A. 1967, Marshall University; graduate study, West Virginia 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 P. 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

BRUMFIELD, JAMES O., Assistant Professor of Biological Sciences (Botany), 1964
M.S. 1964, Marshall University; graduate study, West Virginia University, Marshall University

BURCHETT, RICHARD L., Assistant Professor of Social Studies, 1969
M.S. 1969, Chadron State College; M.A. 1971, University of Cincinnati

BURKETT, FREDERICK K., Assistant Professor of Art, 1972
M.A. 1968, Arizona State University; graduate study, Pennsylvania State University

BURNS, HARVEY L., Sergeant Major, U.S. Army, Instructor in Military Science, 1972

CAMPBELL, MARGARET C., Associate Professor of Education, 1956
Ed.D. 1973, George Peabody College for Teachers

CARR, EMORY W., Assistant Professor of Modern Languages (German), 1966
M.A. 1965, West Virginia University; graduate study, University of North Carolina, State University of New York at Binghamton

CARRELL, MICHAEL R., Instructor in Management, 1972
M.B.A. 1972, University of Louisville; graduate study, University of Kentucky

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, HERSCHEI.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, ELMA S., Assistant Professor of Office Administration, 1956
M.A. 1956, Marshall University; graduate study, Marshall University

CHAPMAN, SARA S., Associate Professor of English, 1967
Ph.D. 1970, Ohio University

CHEN, CHI HSI, 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

CHEZIK, KATHRYN H., Instructor in Speech, 1971
M.A.T. 1969, Indiana University

CHILDERS, MARTHA G., Instructor in Home Economics, 1970
M.A. 1970, Marshall University; graduate study, University of Tennessee

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

CLEVELAND, BERNARD F., Associate Professor of Social Studies, 1964
Ph.D. 1973, Ohio State University

COFFEY, WILLIAM E., Associate Professor of Social Studies, 1969
Ph.D. 1970, West Virginia University

COLE, ERNEST W., Assistant to the Vice President for Academic Affairs and Associate Professor of Finance, 1955
M.A. 1953, Marshall University; graduate study, University of Pennsylvania

COLLEN, ARNOLD R., Assistant Professor of Psychology, 1971
Ph.D. 1971, Ohio State University

COLLINS, BARBARA E., Clinical Instructor in Medical Technology, 1972
B.S. 1965, Marshall University, ASCP 1965

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
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Years</th>
<th>Additional Information</th>
</tr>
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<tbody>
<tr>
<td>COMFORT, RICHARD O.</td>
<td>Professor of Sociology</td>
<td>1971</td>
<td>Ph.D. 1946, George Peabody College for Teachers</td>
</tr>
<tr>
<td>COOK, JACK W.</td>
<td>Assistant Professor of Physical Education</td>
<td>1966</td>
<td>M.A. 1953, Marshall University; graduate study, Marshall University</td>
</tr>
<tr>
<td>COOK, WILLIAM G.</td>
<td>Associate Professor of Economics</td>
<td>1959</td>
<td>B.A. 1947, University of Wisconsin; graduate study, University of Wisconsin</td>
</tr>
<tr>
<td>CORNFIELD, MICHAEL I.</td>
<td>Assistant Professor of Art</td>
<td>1967</td>
<td>M.F.A. 1967, Carnegie Institute of Technology</td>
</tr>
<tr>
<td>CORRIE, GEORGE B.</td>
<td>Associate Professor of Economics</td>
<td>1947</td>
<td>M.A. 1941, University of North Carolina; graduate study, University of North Carolina</td>
</tr>
<tr>
<td>CORUM, JACQUELINE C.</td>
<td>Assistant Professor of Modern Languages (French)</td>
<td>1965</td>
<td>M.A. 1963, Marshall University; M.A. 1972, University of Cincinnati; graduate study, University of Cincinnati</td>
</tr>
<tr>
<td>COX, CHARLES W.</td>
<td>Assistant Professor of Social Studies</td>
<td>1969</td>
<td>Ed.D. 1971, Ball State University</td>
</tr>
<tr>
<td>CREIGHTON, JOHN W.</td>
<td>Associate Professor of Music</td>
<td>1945</td>
<td>M.A. 1942, Northwestern University; graduate study, St. Louis University, Juilliard School of Music, Northwestern University</td>
</tr>
<tr>
<td>CREIGHTON, VIRGINIA R.</td>
<td>Assistant Professor of Home Economics</td>
<td>1941</td>
<td>M.S. 1939, University of Iowa; graduate study, Marshall University</td>
</tr>
<tr>
<td>CROSBIÉ, RONALD L.</td>
<td>Assistant Professor of Physical Education</td>
<td>1967</td>
<td>M.A. 1961, Eastern Kentucky University; graduate study, Temple University, Indiana University, Marshall University</td>
</tr>
<tr>
<td>CUBBY, EDWIN A.</td>
<td>Professor of Social Studies</td>
<td>1949</td>
<td>Ph.D. 1962, Syracuse University</td>
</tr>
<tr>
<td>CUMMINGS, CATHERINE M.</td>
<td>Instructor in Speech</td>
<td>1972</td>
<td>M.A. 1972, Marshall University; graduate study, Ohio University, Marshall University</td>
</tr>
<tr>
<td>CUSICK, DAVID A.</td>
<td>Assistant Professor of Mathematics</td>
<td>1971</td>
<td>Ph.D. 1971, Indiana University</td>
</tr>
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M.B.A. 1963, Indiana University

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WHITE, MARION F., Lieutenant Colonel, U.S. Army, Assistant Professor of
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WHITLEY, W. THURMON, Associate Professor of Mathematics, 1970
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WILLEY, HAROLD L., Professor of Education, 1946
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WILLIAMS, T. D. DUNCAN, Professor of English, 1966
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WILLIAMS, TONY L., Associate Professor of Education, 1970
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The years of service are indicated by the time of appointment and retirement

Baxter, Curtis F., Professor of English .................. 1936-1972
Berryman, Charlotte E., Professor of Physical Education .................. 1927-1966
Bledsoe, Luther, Registrar .................. 1940-1969
Bragonier, Dorothy B., Associate Professor of Mathematics .................. 1927-1958
Britton, Robert L., Professor of Geography .................. 1930-1972
Broh, Hite C., Assistant Professor of Speech .................. 1967-1973
Browning, Elmer R., Professor of Management .................. 1968-1971
Buell, Stephen D., Professor of Speech .................. 1955-1974
Buskirk, Lillian H., Associate Dean of Students .................. 1937-1970
Carpenter, Arthur S., Professor of Art .................. 1951-1977
Core, Eric V., Associate Professor of Education .................. 1957-1971
Crowe, Jessie L., Instructor in Education .................. 1957-1972
Darlington, Hollie C., Professor of Science .................. 1930-1957
David, Florence A., Assistant Professor of Education .................. 1946-1973
Denoon, Anna L., Professor of Mathematics .................. 1909-1947
Dorsey, Bernice A., Assistant Collegiate Library Librarian .................. 1934-1971
Douthat, Lyell V., Associate Professor of Education .................. 1926-1967
Edeburn, Ralph, Professor of Zoology .................. 1945-1970
Eaton, Stanley B., Assistant Professor of Engineering .................. 1957-1972
Evans, Irene, Associate Professor of Business Administration .................. 1939-1969
Fitch, Frederick A., Professor of Physical Education .................. 1930-1971
Foose, Ruby C., Associate Professor of Home Economics .................. 1946-1966
Glasgow, Edward C., Associate Professor of English .................. 1959-1973
Goins, Mary, Associate Professor of Mathematics .................. 1946-1969
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<td>Associate Professor of Home Economics</td>
<td>1947-1962</td>
</tr>
<tr>
<td>Gray, Rex</td>
<td>Associate Professor of Education</td>
<td>1948-1971</td>
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<tr>
<td>Green, N. Bayard</td>
<td>Professor of Biological Sciences</td>
<td>1938-1971</td>
</tr>
<tr>
<td>Groves, David F.</td>
<td>Assistant Professor of Engineering</td>
<td>1958-1969</td>
</tr>
<tr>
<td>Habel, Samuel T.</td>
<td>Professor of Sociology</td>
<td>1964-1974</td>
</tr>
<tr>
<td>Hanna, Loren E.</td>
<td>Associate Professor of Physics</td>
<td>1962-1969</td>
</tr>
<tr>
<td>Hardman, Hunter D.</td>
<td>Professor of Mathematics</td>
<td>1946-1972</td>
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<td>Harper, Charles P.</td>
<td>Professor of Political Science</td>
<td>1946-1967</td>
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<td>Harrison, Clara H.</td>
<td>Assistant Professor of Marketing</td>
<td>1938-1971</td>
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<tr>
<td>Harvey, Helen B.</td>
<td>Associate Professor of English</td>
<td>1942-1959</td>
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<td>Hayward, Harold M.</td>
<td>Professor of Sociology</td>
<td>1938-1962</td>
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<td>Jablonski, Joseph S.</td>
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<td>1929-1966</td>
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<td>Janssen, Raymond E.</td>
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<td>1942-1969</td>
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<td>Jones, Ernestine T.</td>
<td>Assistant Professor of English</td>
<td>1948-1961</td>
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<tr>
<td>Kingsbury, C. Lawrence</td>
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<td>1950-1973</td>
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<td>Kirby, Louise T.</td>
<td>Assistant Professor of English</td>
<td>1959-1972</td>
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<td>Kraybill, Kathryn M.</td>
<td>Librarian</td>
<td>1946-1960</td>
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<tr>
<td>Land, Rufus L.</td>
<td>Associate Professor of Economics</td>
<td>1946-1965</td>
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<td>Lee, Virginia E.</td>
<td>Associate Professor of Journalism</td>
<td>1941-1963</td>
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<tr>
<td>Lieberman, Julius</td>
<td>Professor of Modern Languages (German)</td>
<td>1946-1973</td>
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<tr>
<td>Loemker, Kenneth K.</td>
<td>Professor of Psychology</td>
<td>1930-1971</td>
</tr>
<tr>
<td>McCaskey, Ambrose E.</td>
<td>Professor of Engineering and</td>
<td>1936-1971</td>
</tr>
<tr>
<td></td>
<td>Dean of College of Applied Science</td>
<td></td>
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<tr>
<td>McDonough, Louise</td>
<td>Professor of Physical Education</td>
<td>1929-1969</td>
</tr>
<tr>
<td>McKee, T. Craig</td>
<td>University Physician</td>
<td>1961-1967</td>
</tr>
<tr>
<td>McMullen, Eugenia R.</td>
<td>Associate Professor of Music</td>
<td>1945-1968</td>
</tr>
<tr>
<td>Machen, Edith W.</td>
<td>Instructor in Education</td>
<td>1913-1955</td>
</tr>
<tr>
<td>Mann, Mary Shepp</td>
<td>Instructor in Music</td>
<td>1968-1970</td>
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<tr>
<td>Martin, Donald C.</td>
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</tr>
<tr>
<td>Mathews, Shirley F.</td>
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<td>1945-1972</td>
</tr>
<tr>
<td>Miller, Carl B.</td>
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<tr>
<td>Miller, Eva L.</td>
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<tr>
<td>Mitchell, Dora M.</td>
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<tr>
<td>Musgrave, Paul N.</td>
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<tr>
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<tr>
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<tr>
<td>Parsons, Russ</td>
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<td>Phillips, Gerald R.</td>
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<tr>
<td>Pollitt, Joseph D.</td>
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<td>1936-1963</td>
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<tr>
<td>Ranson, A. Otis</td>
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<td>1931-1972</td>
</tr>
<tr>
<td>Richardson, J. T.</td>
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<td>1949-1969</td>
</tr>
<tr>
<td>Robertson, Kathleen I.</td>
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</tr>
<tr>
<td>Robinson, Ruth</td>
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<td>Rouse, Myrtle M.</td>
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<td>Rumple, Ora E.</td>
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<tr>
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<td>1968-1970</td>
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<td>White, L. Marie</td>
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<td>Wright, Bernice F.</td>
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<td>1946-1972</td>
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