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**MARSHALL
UNIVERSITY**

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Undergraduate Catalog

M 1975 - 76

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

Admission

Director of Admissions

Alumni Affairs

Director of Alumni Affairs

Business Matters, Expenses

Vice President for Business Affairs

Employment, Placement

Director of Career Planning and Placement

Graduate Study

Dean of the Graduate School

Student Affairs

Vice President for Student Affairs

Student Housing

Director of Housing

Scholarships and Loans

Director of Student Financial Assistance

Transcripts, Records

Office of the Registrar



MARSHALL UNIVERSITY

GENERAL UNDERGRADUATE CATALOG

1975 - 76

HUNTINGTON, WEST VIRGINIA

25701

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Volume 15

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Huntington, West Virginia 25701

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

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Calendar

CALENDAR FOR FIRST SEMESTER 1975-76.

August 4, Monday, 4:30 p.m.	.Final Payment Date for Fall Semester Advance Registered Students
August 24-26	Orientation for New Students
August 25, Monday, 8:00-12:00, 1:00-3:00	Registration
6:00-9:00 p.m.	Registration for Evening Students
August 26, Tuesday, 8:00-12:00, 1:00-3:00	Registration
August 27, Wednesday, 8:00 a.m.	Classes Begin
September 1, Monday	Labor Day Holiday - University Closed
September 2, Tuesday, 8:30-12:00, 1:00-4:00, 5:30-7:00	Late Registration and Add-Drop
September 3, Wednesday, same hours	Late Registration and Add-Drop
September 4, Thursday, same hours	Late Registration and Add-Drop
September 2, 3, 4	Sign Up for Credit/No Credit Option
September 4	Application for December Graduation Due in Academic Dean's Office
September 27	Homecoming
October 16, Thursday	Mid-Semester, 1st 8 Weeks Courses End
October 17, Friday	Mid-Semester Reports Due for Freshmen, 2nd 8 Weeks Courses Begin
October 18, Saturday	Graduate Record Examinations
October 27-31	Advance Registration for Second Semester
October 28, Tuesday	Final Draft for Graduate Thesis Submitted to Adviser
November 1, Saturday	Admissions Test for Graduate Study in Business
November 7, Friday	Last Day to Drop Courses with "W" Grade
November 8, Saturday	National Teacher Examinations
November 17-28	Oral Examinations for Master's Degree
November 22, Saturday, 8:00-1:00	Written Examinations for Master's Degree
November 26, Classes End 12:00 Noon	Thanksgiving Recess Begins
November 27, Thursday, Thanksgiving	University Holiday - University Closed
November 28, Friday	University Holiday - University Closed
December 1, Monday, 8:00 a.m.	Classes Resume
December 1	Approved Thesis Due in Graduate School
December 3, Wednesday	Last Day to Drop a Class
December 8, Monday, 4:30 p.m.	.Final Payment Date for Second Semester Advance Registered Students
December 10, Wednesday	Last Class Day
December 12, 15, 17, 18, 19	Examination Days
December 11, 13, 14, 16	Study Days
December 13, Saturday	Graduate Record Examinations
December 19, Friday, 12:15 p.m.	First Semester Ends
December 22, Monday, 9:00 a.m.	Final Grades Due in Registrar's Office
December 24, Wednesday	University Holiday - University Closed
December 25, Thursday, Christmas	University Holiday - University Closed
December 26, Friday	University Holiday - University Closed
January 1, Thursday, New Year's Day	University Holiday - University Closed

CALENDAR FOR SECOND SEMESTER 1975-76

January 12, Monday, 8:00-12:00, 1:00-3:00	Registration
5:00-7:00 p.m.	Registration for Evening Students Only
January 13, Tuesday, 8:00-12:00, 1:00-3:00	Registration continues
January 14, Wednesday, 8:00 a.m.	Classes Begin
January 19, Monday, 8:30-12:00, 1:00-4:00, 5:30-7:00	Late Registration and Add-Drop
January 20, Tuesday, same hours	Late Registration and Add-Drop
January 21, Wednesday, same hours	Late Registration and Add-Drop
January 19, 20, 21	Sign Up for Credit-No Credit Option
January 21	Application for May Graduation Due in Academic Dean's Office
January 31, Saturday	Admissions Test for Graduate Study in Business
February 16, Monday, President's Day	University Holiday - University Closed
February 21, Saturday	National Teacher Examinations
March 5, Friday	Mid-Semester, 1st 8 Weeks Courses End
March 8 through 13	Spring Vacation
March 15, Monday	Mid-Semester Reports Due, 2nd 8 Weeks Courses Begin
March 27, Saturday	Admissions Test for Graduate Study in Business
March 29-April 2	Advance Registration for Summer
April 1, Thursday	Final Draft of Graduate Thesis Submitted to Adviser
April 5-9	Advance Registration for Fall
April 6, Tuesday	Last Day to Drop Courses With "W" Grade
April 12-27	Oral Examinations for Master's Degree
April 16, Good Friday	University Holiday - University Closed
April 24, Saturday, 8:00-1:00	Written Examination for Master's Degree
April 24	Graduate Record Examinations
April 26, Monday	Approved Thesis Due in Graduate School
April 28, Wednesday	Last Day to Drop a Class
May 5, Wednesday	Last Class Day
May 7, 10, 12, 13, 14	Examination Days
May 6, 8, 9, 11	Study Days
May 16, Sunday	Commencement
May 17, Monday, 9:00 a.m.	Final Grades Due in Registrar's Office
May 31, Memorial Day	University Holiday - University Closed

SUMMER SESSION 1976 CALENDAR

First Summer Term

June 14, Monday, 8:00-3:00	Regular Registration
June 15, Tuesday, 8:00 a.m.	Classes Begin
June 15, Tuesday, 4:00 p.m.	Registration Closes for First Term
June 17, Thursday	Last Day to Add Classes
June 17, Thursday	Application for July Graduation Due in Academic Dean's Office
June 23, Wednesday	Final Draft of Graduate Thesis Submitted to Adviser
June 30 - July 13	Oral Examinations for the Master's Degree

MARSHALL UNIVERSITY OFFICERS OF ADMINISTRATION

President	Robert B. Hayes, Ed.D.
Executive Assistant	Olen E. Jones Jr., Ph.D.
Affirmative Action Officer	Marvin E. Billups, M.A.
Vice President for Academic Affairs	William K. Easley, Ph.D.
Dean of the College of Arts and Sciences	George J. Harbold, Ph.D.
Dean of the College of Education	Bernard Queen, Ph.D.
Dean of the College of Business and Applied Science	L. Aubrey Drewry Jr., Ph.D.
Dean of the Graduate School	Paul D. Stewart, Ph.D.
Director of Libraries	Kenneth T. Slack, Ed.D.
Vice President for Administration	Paul H. Collins, M.A.
Director of Alumni Affairs	Everett N. Roush, D.D.S.
Director of Development	Jack C. Phillips, M.A.
Director of Grants	Harold E. Neely, Ph.D.
Director of Informational Services	C. T. Mitchell, M.A.J.
Vice President for Business Affairs	Joseph C. Peters, M.B.A.
Division Director of Finance	Richard D. Vass, B.B.A.
Director of Physical Plant Operations	Joseph S. Soto, M.A.
Director of Security	Donald L. Salyers
Vice President for the Community College	Robert O. Hatton, Ph.D.
Vice President and Dean, School of Medicine and Associated Health Professions	Robert C. Parlett, M.D., Ph.D.
Executive Assistant	John M. Zink, M.B.A.
Associate Dean, V.A. Affairs	Paul H. Guilfoil, M.D.
Director, Office of Education	Charles D. Corman, Ph.D.
Director of Health Science Libraries	Ann L. Howard, M.S.L.S.
Vice President for Student Affairs	Richard G. Mund, Ph.D.
Dean of Students	Richard G. Fisher, Ph.D.
Registrar	Robert H. Eddins, M.S.
Director of Admissions	James W. Harless, M.A.
Director of Student Financial Aid	Dennis J. Montrella, M.A.
Director of Student Development Center and Health Service	Richard Waite, Ph.D.
Director of University Housing	Warren S. Myers, M.A.
Director of Athletics	Joseph H. McMullen, M.A.

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. In 1974 the School of Medicine and Associated Health Professions was established. A Community College is being organized in 1975.

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

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

ACCREDITATION

Marshall University is accredited by the North Central Association of Colleges and Secondary Schools and by the National Council for Accreditation of Teacher Education. Marshall also is a member of the Council of Graduate Schools in the United States. 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 five divisions: College of Education, College of Arts and Sciences, College of Business and Applied Science, Graduate School, and School of Medicine and Associated Health Professions.

COMPUTER CENTER

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

JAMES E. MORROW LIBRARY

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

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

On March 13, 1972, the James E. Morrow Library converted from a closed stack library to an open stack system. Now only government documents, West Virginia, 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 noncommercial 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

*One that is approved by the State Department of Education in the State where the high school is located.

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.
- Associate in Applied Science in Civil, Electrical, or Mechanical Engineering Technology - One unit of geometry and two units of algebra. One unit of chemistry, and one unit of physics are also recommended, but not required.

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 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.

*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.

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.

English	6 hours	English Composition Credit
Natural Science	6 hours	General Education Natural Science Credit
Humanities	6 hours	General Education Humanities Credit
Social Sciences- History	6 hours	General Education Social Science and History Credit
Mathematics	6 hours	General Education Mathematics Credit

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 their assigned registration day. All late registrants are subject to the late registration fee of \$10.00. A student who fails to pay his enrollment fees, room and board when due will be subject to administrative withdrawal from the university.
3. No financial credit shall be extended for enrollment fees. The University operates on a cash basis with payments being collected in advance. However, a student's dormitory fee (room and board) may be divided into two equal nine week installments payable in accordance with dates established by the Director of University Housing. For due dates and amounts of payments, see the section on Dormitory Fees on page 20.
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. 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 and the Graduate School Dean on or before the registration date.
6. A student's registration is not complete until all fees are paid. The Cashier accepts cash, money orders, bank drafts and personal checks written for the exact amount of the obligation. All checks must be made payable to Marshall University.
7. A student's registration may be cancelled when payment is made by a check which is dishonored by the bank. A charge of \$3.00 will be made for each check returned unpaid by the bank upon which it is drawn unless the student can obtain an admission of error from the bank. If the check returned by the bank was in payment of tuition and registration fees, the Office of Business Affairs may declare the fees unpaid and the registration cancelled. If the check was dishonored after the last day of regular registration, the late registration charge may be levied. In such case, the student may be reinstated upon redemption of the unpaid check, payment of the \$3.00 handling charge and payment of the late fee of \$10.00.
8. A student who owes a financial obligation to the University will not be permitted to enroll in subsequent semesters until the obligation is paid. The full payment of charges and balances outstanding on the books of the University in account with a student will be considered prerequisite to the issuance of any certificate of attendance or credit, the awarding of a diploma or the conferring of a degree.
9. Students who withdraw properly and regularly from the institution will receive refunds of fees paid in accordance with the refunding policy which is stated in the schedule of refunds in this section of the catalog.
10. A student who is required to withdraw from the institution for disciplinary reasons may not receive refunds of fees paid.

ENROLLMENT FEES - MAIN CAMPUS

FULL-TIME STUDENTS, TWELVE SEMESTER HOURS OR MORE

	Regular Semester		Summer Term (5 weeks)	
	Resident of West Virginia	Nonresident*	Resident of West Virginia	Nonresident*
Tuition Fee**	\$ 25.00	\$175.00	\$ 25.00	\$175.00
Registration Fee**	50.00	250.00	50.00	250.00
Higher Education Resources Fee**	25.00	150.00	25.00	150.00
Institutional Activity Fee***	26.00	26.00	16.75	16.75
Student Center Fee***	25.15	25.15	12.15	12.15
Intercollegiate Athletics Fee***	14.35	14.35		
Total Enrollment Fee	\$165.50	\$640.50	\$128.90	\$603.90

PART-TIME STUDENTS, LESS THAN TWELVE SEMESTER HOURS

Regular Semester and Summer Term (5 weeks)

West Virginia Resident

Hours	Tuition**	Registration**	Higher Education Resources Fee**	Institutional Activity Fee***	Student Center Fee***	Total
1	\$ 2.10	\$ 4.15	\$ 2.10	\$ 1.40	\$ 5.60	\$ 15.35
2	4.20	8.30	4.20	2.80	6.20	25.70
3	6.30	12.45	6.30	4.20	6.80	36.05
4	8.40	16.60	8.40	5.60	7.40	46.40
5	10.50	20.75	10.50	7.00	8.00	56.75
6	12.60	24.90	12.60	8.40	8.60	67.10
7	14.70	29.05	14.70	9.80	9.20	77.45
8	16.80	33.20	16.80	11.20	9.80	87.80
9	18.90	37.35	18.90	12.60	10.40	98.15
10	21.00	41.50	21.00	14.00	11.00	108.50
11	23.10	45.65	23.10	15.40	11.60	118.85

Nonresident*

Hours	Tuition**	Registration**	Higher Education Resources Fee**	Institutional Activity Fee***	Student Center Fee***	Total
1	\$ 14.60	\$ 20.85	\$ 12.50	\$ 1.40	\$ 5.60	\$ 54.95
2	29.20	41.70	25.00	2.80	6.20	104.90
3	43.80	62.55	37.50	4.20	6.80	154.85
4	58.40	83.40	50.00	5.60	7.40	204.80
5	73.00	104.25	62.50	7.00	8.00	254.75
6	87.60	125.10	75.00	8.40	8.60	304.70
7	102.20	145.95	87.50	9.80	9.20	354.65
8	116.80	166.80	100.00	11.20	9.80	404.60
9	131.40	187.65	112.50	12.60	10.40	454.55
10	146.00	208.50	125.00	14.00	11.00	504.50
11	160.60	229.35	137.50	15.40	11.60	554.45

*The Governing Board's policy statement defining the term nonresident for fee purposes is printed on page 13 of this catalog under the section entitled Policy Regarding Classification of Residents and Nonresidents for Admission and Fee Purposes.

**Students enrolled for less than twelve semester hours pay a pro-rated charge calculated in direct proportion to the number of semester hours scheduled. (One-twelfth of the full-time fee multiplied by the number of semester hours scheduled by the student.)

***See the Table of Assessments for Student Activity Fees on the following page.

**TABLE OF ASSESSMENTS
FOR STUDENT ACTIVITY FEES**

	Regular Semester		Summer Term (5 weeks)
	Full-time Students	Part-time Students	Full-time and Part-time Students
Institutional Activity Fee:			
Artists Series	\$ 3.75		
Chief Justice	2.40		
Convocations and Forums	1.50	\$ 1.50*	\$ 1.50*
Debate	.25		
Et. Cetera	.10		
Health Service	7.00	7.00*	7.00*
Identification Card	.25	.25*	.25*
Intramural Sports	.25		
Music Organizations	1.00		
Parthenon	3.00	3.00*	3.00*
Programming Student Activities	3.80	3.80*	3.80*
Student Government	1.00		
Student Legal Aid Program	.70	.70*	.70*
Student Relations Center	.25		
University Theatre	.50	.50*	.50*
Total Institutional Activity Fee	\$26.00	\$16.75	\$16.75
Student Center Fee:			
Student Center Bonds	\$18.00	\$ 5.00**	\$ 5.00**
Student Center Operations	7.15	7.15*	7.15*
Total Student Center Fee	\$25.15	\$12.15	\$12.15
Intercollegiate Athletics Fee:	\$14.35		
Total Activity Fee	\$65.50	\$28.90	\$28.90

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

ENROLLMENT FEES - OFF-CAMPUS COURSES

Tuition fee \$11.00 per semester hour; registration fee \$4.00 per semester hour; 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.

**Activity fees assessed to part-time students only. Fees are payable as a pro-rated charge calculated in direct proportion to the number of hours scheduled by the student. (One twelfth of the full-time fee multiplied by the number of hours scheduled by the student.)

**Activity fee assessed part-time students as a fixed amount - not pro-rated.

RATES

Regular Semester	Room Rent	Board	Sales Tax	Total Per Semester*
Double Occupancy				
Twin Towers	\$335.24	\$321.56	\$19.70	\$676.50
West Hall	322.13	321.56	19.31	663.00
Hodges, Laidley, and South Halls	314.85	321.56	20.43	655.50
Private Rooms				
Hodges and Laidley Halls	\$359.51	\$321.56	\$20.43	\$701.50
Summer Term - 5 weeks				
Double Occupancy				
Twin Towers	\$ 75.34	\$104.27	\$ 5.39	\$185.00**
Private				
Twin Towers	94.76	104.27	5.97	205.00**
Rates for Married Students Housing (84 units available)***				
			Monthly	
Efficiency Apartment			\$ 70.00	
One Bedroom Apartment (Old Building)			90.00	
One Bedroom Apartment (New Building)			120.00	
Two Bedroom Apartment (New Building)			140.00	

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

ESTIMATE OF EXPENSES AND DATES PAYMENTS DUE

Estimate of Expenses

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

	West Virginia Resident	Nonresident
Enrollment Fee	\$165.50	\$ 640.50
Dormitory Fee		
(Double occupancy Twin Towers)	676.50	676.50
Books, supplies	65.00	65.00
Total	\$907.00	\$1,382.00

Note: Books and supplies may be purchased from the University Bookstore. Payment must be made on the purchase date.

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

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

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

DATES PAYMENTS DUE *

Enrollment Fee

1. For students presently enrolled who advance register (pre-register) during:
 - a. the advance registration period of April 7-11, 1975, for the 1st regular semester beginning August 27, 1975. The final payment date is August 4, 1975.**
 - b. the advance registration period of October 27-31, 1975, for the 2nd regular semester beginning January 14, 1976. The final payment date is December 8, 1975.**
2. For students presently enrolled who register during:
 - a. the regular registration period of August 25-26, 1975, for the 1st regular semester beginning August 27, 1975. The payment date is the student's date of registration August 25-26, 1975.***
 - b. The regular registration period of January 12-13, 1976, for the 2nd regular semester beginning January 14, 1976. The payment date is the student's date of registration January 12-13, 1976.***
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.

Dormitory Fee

	First Regular Semester	Second Regular Semester
Semester's fee payable in two equal installments		
1st installment	August 1, 1975	January 1, 1976****
2nd installment	October 15, 1975	March 1, 1976****

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

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

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

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

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

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 \$ 3.00

Late Registration Fee \$10.00

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

Library Charges:

1. Photographic Services
 - a. Xerox copies from 720 xerox copier - per exposure \$.10
 - b. Xerox copies from 3600 xerox copier - per exposure05
 - c. Facsimile copies from Microfilm - per copy10
 - d. Facsimile copies from Ultra microfilm - per copy25
2. Overdue books and materials
 - a. Books, pamphlets, and government documents two-week loan period, one renewal
 - 1-7 days no fine
 - 8th day overdue \$ 1.00
 - Each day thereafter10
 - Maximum fine 5.00
 - b. Reserve Material - Two-hour books and three-day books
 - First hour overdue \$ 1.00
 - Each hour thereafter10
 - Maximum fine 5.00
 - c. Payment for Lost Book

List price determined from books in print, plus a processing fee of \$10.00
 - d. Damaged Books

Whatever costs incurred in rebinding, replacing pages, etc. Books damaged beyond repair will be paid in accordance with the Lost Book Schedule

Meal Card Replacement Fee \$ 3.00

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

Orientation Fee, per session

New Students	\$ 6.00
Participating parents	3.00

Parking Fees

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

Postage charge for mailing yearbook to graduating seniors \$.75

Replacement charge for lost towel-Physical Ed. Dept. \$ 2.00

Special fee for activity card for the use of the spouse of a full-time student (\$14.00 Athletics; \$5.00 Artists Series; \$1.50 convocations and forums) \$20.50

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

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.

REFUND OF FEES

I. Withdrawal from the university

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

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

	Main Campus and Off-Campus Courses
First Regular Semester	
1st period of refunds-August 25-September 7, 1975	90%
2nd period of refunds - September 8-September 21, 1975	70%
3rd period of refunds - September 22-October 5, 1975	50%
After October 5, 1975 - no refund	
Second Regular Semester	
1st period of refunds - January 12-January 25, 1976	90%
2nd period of refunds - January 26 - February 8, 1976	70%
3rd period of refunds - February 9 - February 22, 1976	50%
After February 22, 1976 - No refund	

All refunds are to be calculated from the first day of regular registration of a given semester or term. Every student who registers incurs a financial obligation. Refund checks normally mailed within 15 days.

B. Dormitory Fee:

First Regular Semester: Cancellation of a room reservation prior to August 27, 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, August 27-September 2, 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 September 2, 1975) will result in the forfeiture of the total dormitory fee.

Second Regular Semester: Cancellation of room reservation prior to January 14, 1976, 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 14-20, 1976, 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 20, 1976) 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 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.

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.

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.

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.

LOANS

National Direct Student Loans

Under the National Direct Student Loan Program, full-time undergraduates may borrow a maximum of \$7,500, of which \$2,500 can be borrowed during the freshman and sophomore years. Full-time graduate students may borrow up to \$2,500 a year. The loans are based on financial need and availability of funds.

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.

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

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 note. There is a service charge of \$1 (one dollar).

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. This program is administered through the student's hometown bank or State Guaranteed Agency. A student must be a 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 \$2,500 per year. 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.

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 freshmen that they cannot be awarded financial aid until they have been 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 \$655.50 to \$701.50 per semester, depending on the facility -- a total of approximately \$1311.00 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 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 \$70.00 to \$140.00 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, and minority students. 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.
2. *Special Services-Upward Bound Offices* - A federally funded program providing counseling, testing, vocational information, to students who qualify under federal economic guidelines. Upward Bound 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 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.
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 in the South Wing, first floor of Prichard Hall, and is staffed by licensed medical personnel. The university's medical history form must be on file in the Student Health Service.

HEALTH INSURANCE

Student Government offers a 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 applications can be obtained from the Student Government Office in the Memorial Student Center, from the Dean of Students' Office, or Student Health Center.

THE SPEECH AND HEARING CLINIC

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

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

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

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. Consult *Student Handbook* for more information.

STUDENT ACTIVITIES AND CULTURAL EVENTS

Each year a multitude of 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 and the *Student Handbook*.

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. Consult *Student Handbook* for further information.

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 or consult the *Student Handbook*.

NEW STUDENT INFORMATION PROGRAMS

New Student Information Programs are conducted 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 36.

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.
- e. Candidates for graduation must have a quality point average of 2.0 or higher overall and in the major area of study on all work attempted at Marshall University or any other institution under the jurisdiction of the West Virginia Board of Regents.

-Adopted by West Virginia Board of Regents, February 8, 1972

Students in the College of Education 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 are defined below.

Official Withdrawal From the University:

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

1. Students dropping one or more courses or completely withdrawing from the university before the final week of classes; dropping or withdrawing passing during the final week of classes will receive a grade of "W". Not considered in determining quality point average.
2. Students dropping one or more courses or completely withdrawing from the University during the final week of classes will receive a grade of "WF" if failing. No quality points.
3. Dropping one or more courses or officially withdrawing from the university during the final week of classes and examination period of a regular semester or the last week of a summer term are not permitted except in cases of extreme emergency beyond the control of the student. Dropping classes and/or complete withdrawal during this period will be permitted only through personal conference with the student's academic dean. Grades reported for drops and withdrawals during this period are defined in paragraph 1.
4. Men and women called to active duty in the armed services of the United States of America shall be granted full refund of fees, but no credit, if the call comes before the end of the first three-fourths of the semester or term, and full credit, but no refund of fees shall be granted if the call comes thereafter; provided, however, that credit as described above will be granted only in those courses in which the student is maintaining a passing mark at the time 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 his or her 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. 55.)

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.

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 NC 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 154.

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.

Transcripts are prepared in the order received.

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

ACADEMIC PUBLICATIONS OF THE UNIVERSITY

The university issues six bulletins annually: the General Undergraduate Catalog, the Catalog of the Graduate School, admission bulletin, the schedule of courses for each semester, and the summer session 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.

CONTINUING EDUCATION

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.
Civil Engineering	A.A.S.
Criminal Justice	A.S.
Cytotechnology	A.S.
Electrical Engineering	A.A.S.
Medical Laboratory Technology	A.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
Dietetics	B.S.
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.
International Affairs	A.B.
Journalism	A.B.
Law Enforcement	B.S.
Management	B.B.A.
Marketing	B.B.A.
Mathematics	B.S.
Medical Technology	B.S.M.T.
Nursing	B.S.N.
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 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.

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

College of Arts & Sciences

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; also two-year degree, Associate in Science in Criminal Justice.

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, 311, 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, or 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, geography, 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, 310, 311, 313, 314, 332, 342, 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 physics12 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.

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

TWO YEAR CURRICULUM

ASSOCIATE IN SCIENCE IN CRIMINAL JUSTICE

English 101, 102	6
Speech 103	3
Chemistry or Biological Science	4
Sociology 200	3
Psychology 201	3
Political Science 201	3
Math (Any course)	3
Criminal Justice 206, 207, 211, 231, 321	15
History, Political Science, Psychology and Sociology	9
Electives	15
Total	64 hrs.

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 42 hours of art courses:

- 101, 102, 203, 214, 215, 307, 350, 401, 402, 404, 406, 455, 456, 470.

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 101 and 102, 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 101 and 102	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 hrs.
Chemistry 211, 212, 213, 214, 327 and 361	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 101, 102 and 404 . . . . .	.12 hrs.
Botany 302, 415 and 416 . . . . .	.12 hrs.
Botany electives	7-8 hrs.
Chemistry 211, 212, 213, 214, 327 and 361 . . . . .	.15 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 complete Chemistry 356, 361, 307 or 357, 345, 448 and chemistry electives to total 32 hours. 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:

1. Chemistry 211, 212, 331, 332, 345, 355, 356, 357, 358, 361, 362, 401-402 (2 hrs. min.), 431, 432, 448, 456
2. Two laboratory courses chosen from Chemistry 213, 214, 215, 216

3. Two advanced chemistry electives.
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.

CRIMINAL JUSTICE

Bachelor of Science in Law Enforcement**

Speech 202 or 207, or English 408	3
Health Education 222	2
Interdisciplinary Studies 101 or 210	3
Math (any course)	3
History, Political Science, Psychology, and Sociology:	
12 hours in one area and 6 hours in two of the remaining three areas	24
Criminal Justice 206,*207,*211, 321, 322, 323	18
Criminal Justice electives	12
Arts and Sciences requirements	30
Electives	33
Total hours	128

Bachelor of Science in Corrections **

Speech 202 or 207	3
Math 125, 225	6
History, Political Science, Psychology and Sociology:	
12 hours in one area and 6 hours in two of the remaining three areas	24
Criminal Justice 206,*231, 321, 331, 404, 421	18
Criminal Justice electives	12
Arts and Sciences requirements	30
Electives	35
Total hours	128

*Criminology and juvenile delinquency may be used to meet either the Criminal Justice or the Sociology requirement, but not both.

**There is no foreign language requirement for the Bachelor of Science degree in Law Enforcement or the Bachelor of Science degree in Corrections.

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.

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 378, 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 101 and 102	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	15 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	24 hrs.
Geography 100, 101, 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	33 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 102

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 to a traineeship program. Graduate internships vary in length at different institutions, the shortest being of six months duration. Several hospitals in West Virginia are cooperating to provide traineeship programs.

Majors in dietetics are required to take the following courses:

Home Economics 110, 203, 210, 303, 304, 403, 405, 407, 413, 420

Biological Science 101-102, Zoology 315, Botany 302

Chemistry 203, 204, 215, 216, 327, 300 and 301
 Management 424
 Accounting 215
 Educational Foundations 319*

INTERNATIONAL AFFAIRS

A major in international affairs combines studies in economics, geography, history and political science and emphasizes the study of a modern language. Similar studies can be pursued at other schools with graduate work in one of the subjects or a combination of subjects.

A major in international affairs must meet the specific and general requirements for the A.B. degree except as altered by the following requirements:

- a. The student will concentrate on a single modern language. A minimum of 15 hours is required of students who receive credit for two years of high school language (the same language as that taken at Marshall) and 21 hours for those who do not. All available conversational courses should be taken.
- b. The following courses are required:
 - Economics 241, 242, 408 and 420
 - Geography 405
 - History 313, 322, 404, 405, 418
 - Political Science 201, 309, 405 and 406.
- c. The student shall develop a sequence of courses consisting of a minimum of 12 hours from among the following:
 - History 301, 302, 314, 375, 427
 - Political Science 333, 407, 408, 409, 410, 411, 415, 422, 423, 470
- d. A regional geography course in the area of the student's interest is highly recommended.
- e. With the approval of the adviser other courses may be added such as special topics offerings, area studies courses, summer workshops or internships.

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 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.

Students may apply a maximum of 32 credit hours in journalism toward the bachelor of arts degree requirement of 128 hours. Any other credit hours taken in journalism must be in addition to the college requirement of 128 hours for graduation.

News-Editorial Sequence

Journalism 101, 201, 202, 300, 301, 302, 402, 304 or 414 plus seven hours from any other journalism courses.

Journalism Advertising Sequence

Journalism 101, 201, 301, 381, 382, 425 plus 15 hours selected from the following journalism courses: 300, 308 or 430, 330, 335, 360, 440, 480.

*Field experience not required.

Broadcast Journalism Sequence

Journalism 101, 201, 240, 350, 351, 360, 402, 414 and Speech 331 plus a minimum of four and a maximum of seven hours from any other journalism courses.

Any of the following non-required courses within the Department of Speech would be beneficial for broadcast journalism majors: 230, 231, 233, 237-238, 330, 332, 337-338, 430, 431, 435.

Public Relations Sequence

Journalism 101, 201, 202, 240, 301, 330, 335, 390 plus nine hours from the following journalism courses: 302, 308, 350, 360, 381, 430, 440, 480.

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. 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, 440 and 461

American National Politics: 303, 307, 381, 383, 423, 440, 485 and 486.

Comparative Politics: 407, 408, 409, 410, 411, 422 and 470.

International Politics: 309, 405, 406, 415, and 423.

Political Theory: 425, 426, 427, 429 and 430.

Public Administration: 333, 383, 433, 450 and 452.

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. 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, 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, 345 and 446. (30 hours).

Sociology Minor. Twelve hours of sociology.

Anthropology Minor. Twelve hours of anthropology.

NOTE: Math 225 may be substituted for Soc. 345.

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, 310, 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: Speech 103, 240, 370, 420, 422, 424, 425, 426, 429, 439, 460, 463, and 470. 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 101 and 102	8 hrs.
Chemistry 211, 212, 213, 214, 327 and 361	13 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 225	6-8 hrs.

Recommended electives:

Botany 415 and 416

Geology 200 and 210L

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."

TWO YEAR PRE-PROFESSIONAL PROGRAMS IN ENGINEERING

A student who plans to become a professional engineer may find it convenient to study at Marshall University for one or two years and then transfer to an engineering school of his choice. This possibility exists for the following engineering specialties:

Agricultural Engineering, Aerospace Engineering, Bioengineering, Ceramic Engineering, Chemical Engineering, Civil Engineering, Electrical Engineering, Engineering Science & Mechanics, Environmental Engineering, Forest Engineering, Geological Engineering, Geophysical Engineering, Industrial Engineering, Mechanical Engineering, Metallurgical Engineering, Mining Engineering, Nuclear Engineering.

The student who enters one of these programs at Marshall University should enroll in the College of Arts and Sciences. The student must consult with the designated adviser to develop a program.

A typical two year program is listed below.

FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Mathematics 131	5	Mathematics 230	4
English 101	3	English 102	3
Chemistry 211	3	Chemistry 212	3
Chemistry 213	2	Chemistry 214	2
Gen. Eng. Tech. 111	2	Engineering Tech.**	2
Gen. Eng. Tech. 115	1	Electives* . . . . .	.3-6
Electives* . . . . .	.3-4		
	19-20		17-20

SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Mathematics 231	4	Mathematics 335*** . . . . .	.3-4
Physics 211	4	Physics 213	4
Physics 212	1	Physics 214	1
Eng. Mechanics 210	5	Eng. Mechanics 211	4
Electives* . . . . .	.3-6	Electives* . . . . .	.3-6
	17-20		15-19

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

*Electives may be technical or non-technical according to the particular requirements of the chosen program.

**Electrical Engineering Technology 152, Civil Engineering Technology 132, or Mechanical Engineering Technology 172.

***The chosen program may require a substitution of one of the following mathematics courses: 330, 427, 430, 443, 445, or 460.

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 pre-law 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 101 and 102	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 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

*Note Mathematics prerequisite.

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 the educational 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. In programs leading to an associate degree, the emphasis will be upon relatively rapid preparation of the student for vocational entry to the chosen profession.

DEGREE PROGRAMS

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

1. Associate in Science Degree
 - a. Accounting
 - b. Retailing
 - c. Secretarial studies
2. Associate in Applied Science Degree
 - a. Engineering Technology
3. Bachelor of Business Administration Degree
 - a. Accounting
 - b. Finance
 - c. Management
 - d. Marketing
 - e. Office Administration
4. Master of Business Administration: a complete description of the MBA program is given in the catalog of the Graduate School.
5. The Department of Military Science offers courses leading to a commission in the United States Army, contingent upon graduation from the university.
6. London Semester

During Fall semester, 1975, the College of Business and Applied Science will undertake an experiment in international education for Business Administration. If the program is successful, it is expected to continue in future years. An International Studies Semester in London, with the theme of "The Multinational Corporation" will be conducted. Juniors and seniors pursuing a Bachelor of Business Administration degree will be eligible to participate. Regular courses in the Business curricula will be offered by Marshall University faculty members in London to participating students, who will also have opportunities for tours, lectures and discussions in both the British and the international business community.

Costs are kept as low as possible, in an effort to make it possible for many Business majors to participate in this international experience. The rapid rise of international business activity dictates that American students prepare for business careers in a multinational environment. The London Semester provides the familiar framework of Marshall University courses, taught by Marshall University professors, but in an altogether different cultural setting, where the student may observe firsthand the application of business principles to a multinational environment.

ORGANIZATION

The undergraduate programs of the College of Business and Applied Science are organized into seven departments.

Applied Science departments:

1. Engineering Technology
2. Military Science

Business Administration Departments:

1. Accounting
2. Finance and Business Law
3. Management
4. Marketing
5. Office Administration

REQUIREMENTS FOR DEGREES

Requirements for degrees are shown below. Candidates for all degrees must meet the specific requirements set forth for their curriculum as listed below.

Candidates for Associate degrees must earn a minimum of 64 semester hours.

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

ENGINEERING

Two year Pre-Professional Engineering program - see College of Arts and Sciences

ENGINEERING TECHNOLOGY

Two-Year Curriculum: Associate in Applied Science

Two-year curricula, leading to the degree of Associate in Applied Science, are offered in Civil, Electrical, and Mechanical Engineering Technology. The primary objective of the program is to offer the course work that will qualify individuals to enter the field of engineering technology. The three curricula are designed to produce graduates with immediate marketable competence in their specific field who will be prepared to undertake many of the routine problems encountered in engineering practice. The emphasis is on practical application of engineering principles, and course work provides both engineering theory and extensive laboratory work.

Those seeking admission to this program should present one unit of geometry, and two units of algebra. One unit of chemistry and one unit of physics are also recommended but not required. Deficiencies in algebra may be made up during the first semester, but preferably should be made up in the summer prior to entering the program in the fall semester.

Each of the three curricula requires 68 semester hours of course work for the associate degree. The choice of electives in the sophomore year are subject to the approval of the Chairman of the Department of Engineering.

While these curricula are essentially terminal programs followed by immediate entry into occupational situations, those students wishing to transfer into a baccalaureate program in engineering technology at another institution will be prepared to do so. Such students should consult their academic adviser relative to the selection of electives.

Civil Engineering Technology Curriculum

First Year			
First Semester	Hrs.	Second Semester	Hrs.
Chemistry 100	4	Civil Engineering Tech. 132	2
English 101	3	Civil Engineering Tech. 134	3
General Engineering Tech. 111	2	Engineering Mechanics Tech. 124	5
General Engineering Tech. 115	1	General Engineering Tech. 112	2
Mathematics 122*	3	Mathematics 190*	5
Physics 200	4		
	17		17

*Students with deficiencies in high school mathematics (ACT less than 20) will be requires to take MTH 120 as a corequisite of MTH 122. Those who have had high school trigonometry and who have an ACT score of at least 20 may substitute MTH 130 in lieu of MTH 122. Those who have had at least 1½ units of algebra and ½ unit of trigonometry in high school and who have an ACT score of at least 26 may take MTH 131 and MTH 230 in lieu of MTH 122 and MTH 190.

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Civil Engineering Tech. 231	2	Civil Engineering Tech. 232	3
Civil Engineering Tech. 233	3	Civil Engineering Tech. 234	2
Civil Engineering Tech. 235	4	Civil Engineering Tech. 236	3
Engineering Mechanics Tech. 225	3	Civil Engineering Tech. 238	2
General Engineering Tech. 211	2	Engineering Mechanics Tech. 224	2
Nontechnical Elective **	3	Nontechnical Elective **	3
		Unrestricted Elective	2
	17		17

Electrical Engineering Technology Curriculum

First Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 100	4	Electrical Engineering Tech. 152	2
English 101	3	Electrical Engineering Tech. 154	3
General Engineering Tech. 111	2	Engineering Mechanics Tech. 124	5
General Engineering Tech. 115	1	General Engineering Tech. 112	2
Mathematics 122*	3	Mathematics 190*	5
Physics 200	4		
	17		17

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Electrical Engineering Tech. 253	3	Electrical Engineering Tech. 254	4
Electrical Engineering Tech. 255	2	Electrical Engineering Tech. 256	2
Engineering Mechanics Tech. 225	3	Electrical Engineering Tech. 258	4
General Engineering Tech. 211	2	Engineering Mechanics Tech. 224	2
Mechanical Engineering Tech. 275	4	Nontechnical Elective **	3
Nontechnical Elective **	3	Unrestricted Elective	2
	17		17

Mechanical Engineering Technology Curriculum

First Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 100	4	Electrical Engineering Tech. 154	3
English 101	3	Engineering Mechanics Tech 124	5
General Engineering Tech. 111	2	General Engineering Tech. 112	2
General Engineering Tech. 115	1	Mechanical Engineering Tech. 172	2
Mathematics 122*	3	Mathematics 190*	5
Physics 200	4		
	17		17

*Students with deficiencies in high school mathematics (ACT less than 20) will be requires to take MTH 120 as a corequisite of MTH 122. Those who have had high school trigonometry and who have an ACT score of at least 20 may substitute MTH 130 in lieu of MTH 122. Those who have had at least 1½ units of algebra and ½ unit of trigonometry in high school and who have an ACT score of at least 26 may take MTH 131 and MTH 230 in lieu of MTH 122 and MTH 190.

**Nontechnical electives must be chosen from the humanities and social sciences.

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Engineering Mechanics Tech. 223 . . .	2	Electrical Engineering Tech. 256 . . .	2
Engineering Mechanics Tech. 225 . . .	3	Engineering Mechanics Tech. 224 . . .	2
General Engineering Tech. 211	2	Mechanical Engineering Tech. 274 . . .	3
Mechanical Engineering Tech. 273 . . .	3	Mechanical Engineering Tech. 276 . . .	3
Mechanical Engineering Tech. 275 . . .	4	Mechanical Engineering Tech. 278 . . .	2
Nontechnical Elective*	3	Nontechnical Elective *	3
		Unrestricted Elective	2
	17		17

MILITARY SCIENCE**U.S. Army Reserve Officers' Training Corps**

The Reserve Officers' Training Corps Program is open to both men and women. It was established at Marshall University in September 1951. The program consists of two parts - The Basic Course and the Advanced Course. Each of these courses extends through two academic years. Qualifying Veterans are not required to attend the Basic Course. The objective of this program is to produce leaders who are capable of serving as officers in the U.S. Army Active and Reserve forces. This program provides a basic military education in conjunction with other college disciplines and develops those personal attributes essential for an officer in the United States Army. Military Science is an elective and enrollment in both courses is voluntary. Students must meet the requirements for enrollment as stated in Enrollment Requirements at the end of this section. Individuals who successfully complete the prescribed training must accept a commission in the United States Army, if tendered.

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 \$2,500.00 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 classes three hours per week and receive three semester hours credit per semester. In addition, all military science students normally attend a one hour

*Nontechnical electives must be chosen from the humanities and social sciences.

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 program is available to those students who have been unable to attend the Basic Course. It consists of a six-week Basic Camp prior to enrolling in the Advanced Course. Pay for this six-week period is approximately \$450.00. After successful completion of this camp, the student then participates in the regular Advanced Course. Students interested in the two-year program should contact the Professor of Military Science.

Curriculum

The Military Science curriculum can be pursued in conjunction with any curriculum of the university and 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 should be enrolled in MS 101-102 as a freshman, MS 201-202 as a sophomore, 300 level courses as a junior, and 400 level courses as a senior.

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 years. 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.

Subjects may be chosen from the following academic areas for utilization in the junior and senior years:

- I. Social Sciences
- II. Mathematics and Natural Sciences
- III. Humanities
- IV. Applied Sciences and Professions

Enrollment Requirements

Basic Course:

1. Applicant must be a citizen of the United States. Persons who are not U.S. citizens may be enrolled on an individual basis.
2. Applicant must be between 17 and 24 years of age. Further, he must be less than 27 years old prior to entry into the Advanced Course.
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 medically examined and found physically qualified.
6. Applicants for enrollment who have a criminal record in any civil or military court, for other than a minor traffic violation, must have approval from the Department of the Army to enroll. Requests for approval must be made through the Professor of Military Science.

Advanced Course:

The following additional requirements apply to Advanced Course candidates.

1. Applicant must be less than 27 years of age prior to enrolling in the Advanced Course. Waivers on age may be granted on an individual basis.
2. Applicant must execute a written contract with the government to continue the course of instruction for two years, and to attend the ROTC six-week Advanced

- Camp. Additionally, the students must agree to accept a commission as a Second Lieutenant, if offered. Individuals must serve on active duty if called by the Secretary of the Army.
3. Applicant must be approved by the Professor of Military Science and the President of the University.
 4. If the applicant is a member of a U.S. Military Reserve Unit, he must resign prior to enrollment in ROTC.

BUSINESS ADMINISTRATION

Two-Year Curriculum: Associate in Science

The following programs of study have been organized for those students who may not wish to complete a baccalaureate program of college work. These associate degrees 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 a 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 random selections from the university's course offerings.

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

First Year

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Speech 103	3	Math 120	3
Accounting 215	3	Accounting 216	3
Economics 241	3	Economics 242	3
Electives	4	Electives	4
	16		16

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Accounting 311	3	Accounting 312	3
Accounting 347	3	Accounting 348	3
Business electives	6	Business electives	6
Electives	4	Electives	4
	16		16

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

RETAILING

First Year

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Mathematics 120	3	Speech 103	3
Economics 241	3	Economics 242	3
Art 216	3	Prin. of Selling 231	3
Electives	5	Elective	3
	17		15

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Marketing 340	3	Advertising 341	3
Accounting 215	3	Accounting 216	3
Finance 307	3	Retail Management 344	3
Prin. of Retailing 343	3	Business elective	3
Business elective	6	Elective	3
	18		15
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 *

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Mathematics 120	3	Office Administration 105	2
Office Administration 104**	2	Speech 103	3
Accounting 215	3	Office Administration 202 ***	3
Science elective	4	Accounting 216	3
	15	Elective	3
			17

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Economics 241	3	Economics 242	3
Management 320	3	Marketing 340	3
Finance 307	3	Office Administration 302	3
Office Administration 301	3	Psychology 201	3
Office Administration 305	3	Electives	3
Electives	2		
	17		15

Total hours required for degree 64

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

*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.

semester hours selected from a set of General Education Requirements 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 Common Requirements in Business 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.

Subject Area Minimum Hours Required

English 101, 102	6
Speech 103	3
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 communications.	
Speech 207	3
Humanities	6
A. To meet this requirement, the student may select from among any courses offered by the Departments of Classical Studies; English, Philosophy; Bible and Religion; or Speech. In selecting courses, the student should pay careful attention to prerequisites or other restrictions on courses which he wishes to take.	
B. For the student who is uncertain, a choice from the following list of courses is recommended:	
English 300, 301; Bible & Religion 300, 301; Philosophy 201; Classics 200.	
Fine Arts	3
A. To meet this requirement, the student may select from among courses offered by the Department of Art; or Music; or any course in dance offered by the Department of Physical Education; PE 160, 304, 305, 330, 401 or 405. In selecting courses, the student should pay careful attention to prerequisites or other restrictions on courses which he wishes to take.	
B. For the student who is uncertain, a choice from the following list of courses is recommended:	
Art 112; Music 175; or PE 160.	
Natural Sciences	8
To meet this requirement the student may select from among any courses offered by the Departments of Biological Sciences; Chemistry; Geology; or Physics. In selecting courses, the student should pay careful attention to prerequisites or other restrictions on courses which he wishes to take.	
Mathematics	8
Mathematics 120 and 190; or any two courses in Mathematics numbered 200 or above. In selecting courses, the student should pay careful attention to prerequisites or other restrictions on courses which he wishes to take.	
Behavioral Sciences	6
Psychology 201; Sociology 200 or Anthropology 201.	
American Institutions and International Institutions	12
A. To meet these requirements, the student must select from among the courses offered by several departments as follows:	
a. Anthropology 430, 455, 456, 457, 458; American Institutions All other Anthropology courses: International Institutions	
b. Economics: All courses are American Institutions. Except 408, 420, 460; International Institution	
c. Geography 206, 305, 320, 401, 410, 420; American Institutions All other Geography courses: International Institutions.	
d. History 308, 309, 311, 312, 313, 316, 317, 318, 319, 432; American Institutions All other History courses: International Institutions	
e. Modern Languages: All courses count as International Institutions	
f. Political Science 201, 202, 301, 303, 307, 333, 376, 381, 383, 429, 433, 440, 461, 485, 486: American Institutions 205, 309, 370, 405, 406, 407, 408, 409, 410, 411, 415, 418, 419, 421, 425, 426, 427: International Institutions.	

g. Sociology: All courses numbered above 200 count as American Institutions. In selecting courses, the student should pay careful attention to prerequisites or other restrictions on courses which he wishes to take.

- B. For the student who is uncertain, a choice from the following lists of courses is recommended:
- a. American Institutions: Economics 342; History 312, 313; Political Science 201, 202; Sociology 342.
 - b. International Institutions: Geography 203; Economics 460; History 219, 220; Political Science 205; Social Studies 104-105; Any Modern Language courses.

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

COMMON REQUIREMENTS IN BUSINESS

Accounting 215	3	Economics 241	3
Accounting 216	3	Economics 242	3
Finance 323	3	Finance 307 (Bus. Law)	3
Management 318 (Bus. Stat.)	3	IS 101	3
Marketing 340	3	Management 320	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

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Science elective	4	Science elective	4
Speech 103	3	Mathematics 190*	5
Mathematics 120*	3	Fine arts elective	2-3
International inst. elective	3	Speech 207	3
	16		17-18

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Accounting 215	3	Accounting 216	3
Economics 241	3	Economics 242	3
Management 320	3	Behavioral science elective	3
Behavioral science elective	3	Marketing 340	3
Humanities elective	3	Electives	6
American inst. elective	3		
	18		18

ACCOUNTING

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Accounting 311	3	Accounting 312	3
Finance 323	3	Management 318	3
Finance 307	3	Finance 308	3
Accounting elective**	3	American inst. elective	3
Humanities elective	3	Accounting 348	3
	15		15

*Mathematics sequence may be taken sophomore year rather than freshmen year.

**Accounting electives: (any two of the following): Economics 310, Economics 326, Economics 430, Finance 329, Finance 335, Finance 434, Finance 409.

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Accounting 347	3	Accounting 413	3
Accounting 414	3	Management 424	3
Accounting elective*	3	Electives	9
Inter. inst. elective	3		
Elective	3		
	<u>15</u>		<u>15</u>

FINANCE AND BUSINESS LAW

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Finance 323	3	Management 318	3
Finance 307	3	Finance 324	3
Humanities elective	3	Inter. inst. elective	3
American inst. elective	3	Finance 308	3
Elective**	3	Elective	3
	<u>15</u>		<u>15</u>

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Finance 435	3	Finance 434	3
Finance 430	3	Finance electives**	8
Finance electives**	3	Electives	9
Electives	6		
	<u>15</u>		<u>15</u>

FINANCE OPTION (INSURANCE)

Second Year

Finance 225, Recommended in second year.

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Finance 323	3	Management 318	3
Finance 307	3	Finance 329	3
Finance 327	3	Inter. Inst. elective	3
Humanities elective	3	Finance 308	3
Amer. inst. elective	3	Elective	3
	<u>15</u>		<u>15</u>

*Accounting electives: (any two of the following): Economics 310, Economics 326, Economics 430, Finance 329, Finance 335, Finance 434, Finance 409.

**Finance electives: Finance majors must select three of the following courses: Accounting 348, Economics 310, Economics 326, Office Administration 325, Finance 327, 329 and 335.

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Finance 335	3	Finance 434	3
Finance Elective *	6	Finance Elective*	3
Electives	6	Electives	9
	15		15

MANAGEMENT

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Finance 323	3	Management electives**	6
Finance 307	3	Inter. inst. elective	3
Management 318	3	Amer. inst. elective	3
Management elective**	3	Elective	3
Electives	3		
	15		15

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Management 418	3	Management 422	3
Management 420	3	Management 426	3
Management 424	3	Management 460	3
Management elective**	3	Electives	6
Electives	3		
	15		15

MARKETING

Third Year

First Semester	Hrs.	Second Year	Hrs.
Finance 307	3	Finance 323	3
Management 318	3	Marketing 350	3
Inter. inst. elective	3	Electives	9
Humanities elective	3		
American inst. elective	3		
	15		15

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Marketing 341	3	Management 424	3
Marketing 344	3	Marketing 430	3
Marketing 440	3	Marketing 437	3
Office Administration 325	3	Marketing 442	3
Electives	3	Electives	3
	15		15

*Finance Electives: Insurance Majors must select two of the following courses: Accounting 348, Economics 310, Finance 201, Marketing 231, Finance 430, Finance 435.

**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 325.

OFFICE ADMINISTRATION*

First Year

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Mathematics 120**	3	Mathematics 190**	5
Office Administration 104	2	Science elective	4
Science elective	4	Office Administration 105	2
Speech 103	3	Fine arts elective . . . . .	.2-3
	<hr/>		<hr/>
	15		16-17

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Office Administration 202	3	Office Administration 301	3
Behavioral science elective	3	Behavioral science elective	3
Economics 241	3	Economics 242	3
Accounting 215	3	Accounting 216	3
Electives	5	Speech 207	3
	<hr/>		<hr/>
	17		15

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Office Administration 305	3	Management 318	3
Finance 307	3	Management 320	3
American inst. elective	3	Office Administration 404	3
Humanities elective	3	American inst. elective	3
Electives	3	Humanities elective	3
	<hr/>	Elective . . . . .	.2-3
	15		<hr/>
			17-18

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Finance 323	3	Office Administration 302	3
Marketing 340	3	Inter. inst. elective	3
Office Administration 421	3	Electives	9
Office Administration 325	3		
Inter. inst. elective	3		
	<hr/>		<hr/>
	15		15

*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.

College of Education

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 six (6) semester hours in the field of professional education if they desire. These students are limited to enrollment in Educational Foundations 218, Human Development and Educational Foundations 319, Human Development (teaching and learning).

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 an elementary school designated by the Office of Clinical Experiences. 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.
6. Successful completion of Speech-Hearing screening.
7. Recommendation by advisor.
8. 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 long-term leases since it may be necessary for some 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 Science, Grades 7-12
 - Business Education, Comprehensive, Grades 7-12
 - Business Principles, Grades 7-12
 - Chemistry, Grades 7-12
 - Distributive Education, Grades 7-12
 - Early Childhood Education, ages 3-8
 - Early Education, ages 3-5
 - Elementary Education, Grades 1-6 and specializations for middle school, for Grades 4-8
 - English, Grades 7-12
 - French, Grades 7-12
 - French, Grades 7-9 and 4-8
 - General Science, Grades 7-12 and 4-8
 - Health Education, Grades K-12
 - Home Economics (Vocational), Comprehensive: Grades 7-12
 - Home Economics, Grades 7-9 and 4-8
 - Journalism, Grades 7-12
 - Language Arts, Grades 7-9 and 4-8
 - Latin, Grades 7-12
 - School Library Media, Grades K-12
 - Mathematics, Grades 7-12
 - Mathematics, Grades 7-9 and 4-8
 - Music, Grades K-12
 - Physical Education, Grades 7-12
 - Physical Education, Grades K-12
 - Physics 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 4-8
 - Spanish, Grades 7-12
 - Spanish, Grades 7-9 and 4-8
 - Special Education
 - Teaching Mentally Retarded, Elementary Education
 - Teaching Mentally Retarded, Secondary Education: Physical Education K-12; Home economics 7-12
 - Teaching Physically Handicapped and Other Handicapped, Elementary Education
 - Teaching Physically Handicapped and Other Handicapped, Secondary Education: Physical Education K-12 only
 - Speech, (Oral Communication), Grades 7-12
 - Speech, (Oral Communication), Grades 4-8
 - 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, or English 201H	6 hrs.
Speech 103, or 305 *	3 hrs.
Literature: English and American Literature	
Select 2 of the following courses:	6 hrs.
English 300, 301, 307, 310, 311, 318, 329, 331, 340, and 360	
Art Appreciation	
Art 112	2 hrs.
Music Appreciation	
Music 175	2 hrs.
The Sciences and Mathematics . . . . .	.11 hrs.
Biological Science/Physical Science**	
Biological Science 201-202 or Physical Science 109-110 or geology 101	8 hrs.
Mathematics	
Mathematics 110 ***	3 hrs.
Curriculum and Instruction 101 ****	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.

***Business education majors must take Mathematics 120; science majors must take Mathematics 120 and 122 or Mathematics 122 and 130 or 131.

****Students in the elementary, special education and early childhood education programs must complete this course.

History: Contemporary Civilization (select two)	
Social Studies 104-105-106	6 hrs.
Current Problems: Economic, Social, Political	
Social Studies 201-202	6 hrs.

The Physical Education Subjects 2 hrs.

MEN

Military Science 101-102 or

Physical Education Electives: Select two of the following one-hour courses:

Physical Education 100, 113, 114, 120, 140, 141, 142, 145, 205, 209, 210,
240, 241, 242, 300, 306, 309, 330, 403, and 404.

WOMEN

Physical Education Electives: Select two of the following one-hour courses:

Physical Education 100, 114, 120, 125, 127, 132, 140, 141, 142, 145, 160, 205,
210, 240, 241, 242, 300, 305, 330, 403, and 404

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	3 hrs.
American History	
History 311-312-313	9 hrs.
West Virginia History and Government	
Social Studies 303	3 hrs.
Global Geography	
Geography 317	3 hrs.
Biological Science and Physical Science	
(8 hours in addition to those included in the general studies requirements)	
Biological Science 201-202 or Physical Science 109-110	8 hrs.
Mathematics for Teachers	
Curriculum and Instruction 201 and 300	5 hrs.
Music Education	
Music 303 and 370	5 hrs.
Art Education	
Art 113 and 340	6 hrs.
Health Education	
Health Education 321	3 hrs.
Physical Education for Elementary Schools	
Physical Education 314	3 hrs.

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, 319 and 406	9 hrs.
Curriculum and Instruction 450, and 475	12 hrs.
Methods in the teaching specialization for grades 7-12	3 hrs.
Total	24 hrs.

*Applies to programs for early childhood education, elementary education and special education options A and C.

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

SUBSEQUENT TO THE PUBLICATION OF THIS CATALOGUE, THIS PROGRAM WAS REVISED TO MEET NEW STATE STANDARDS, STUDENTS CHOOSING THIS FIELD SHOULD CONSULT THEIR ADVISOR OR THE DEAN'S OFFICE FOR CURRENT PROGRAM REQUIREMENTS.

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, K-12 or 7-9.
5. Specialization requirements listed below.

Art 101, 113, 203, 214, 215, 307, 340, 350, 401-402, 406, 455, 460 and 470 . . . . .	.42 hrs.
Select one course from the following:	3 hrs.
Art 305 or 306	
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, 319 and 406	9 hrs.
Curriculum and Instruction 405 and 450	8 hrs.
Curriculum and Instruction 468 and 475	7 hrs.
Total	24 hrs.
3. Specialization requirements:

Art 101-102, 113, 203, 214, 215, 307, 340, 350, 401-402, 406, 455-456, 460 and 470 . . . . .	.48 hrs.
Select one course from the following:	3 hrs.
Art 305 or 306	
Select one course from the following:	3 hrs.
Art 403, 404, 405, 407, 408	
Total	54 hrs.

BIOLOGY*

(Grades 7-12)

Minimum Requirements for Graduation

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

Biological Science 201, 202 and 306	12 hrs.
Botany 415 and 416	8 hrs.
Chemistry 203-204 or 211-212	6 hrs.
Select two courses from the following sequence	2 hrs.
Chemistry 213, 214, 215, 216	
Geology 200 and 201L	4 hrs.
Physical Science 400	3 hrs.
Physics 201-203** and 202-204	8 hrs.
Zoology 212	4 hrs.
Select 7-8 hours from the following:	7-8 hrs.
Biological Science 407 and 482, 7 hrs.	
Botany 302 and 418, 8 hrs.	
Zoology 315, 4 hrs.	
- Total 54-55 hrs.

BUSINESS EDUCATION***

(Comprehensive: Grades 7-12)

Minimum Requirements for Graduation

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

Accounting 215-216 and 311	9 hrs.
Economics 241-242 and 310	9 hrs.
Finance 307 and 323	6 hrs.
Management 318 and 320	6 hrs.
Marketing 340	3 hrs.
Office Administration 103****, 104, 105, 201****, 302 301, 305, 404****, and 421 . . . . .	.24 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 - 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, K- 12, or 7-9. This

*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.

***This program requires an exposure to the business world through a minimum of 200 clock hours of verified work experience, simulation, practicum or combination thereof in a five-year period prior to certification.

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

*****Note catalogue requirements

- specialization cannot be granted in combination with Business Education.
3. Specialization requirements listed below:

Accounting 215-216	6 hrs.
Economics 241-242	6 hrs.
Finance 307	3 hrs.
Management 318	3 hrs.
Office Administration 103 * , 104, 105, 201 * , 202, 301 305, 404 **, and 421 . . . . .	.24 hrs.
Total	37-42 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, K-12 or 7-9. This specialization cannot be granted in combination with Business Education.
3. Specialization requirements listed below.

Accounting 215-216	6 hrs.
Economics 241-242	6 hrs.
Finance 307 and 323	6 hrs.
Management 318	3 hrs.
Marketing 340	3 hrs.
Office Administration 103, *104, 105, 305, 421 . . . . .	.12 hrs.
Total	34-36 hrs.

CHEMISTRY
(Grades 7-12)

Minimum Requirements for Graduation

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

Biological Science 201 and 202	8 hrs.
Chemistry 211-212	6 hrs.
Select two courses from the following sequence	2 hrs.
Chemistry 213, 214, 215, 216, 1 hr.	
Chemistry 361, 300, 327, 307, 345 . . . . .	.14 hrs.
Physics 201-203 and 202-204****	8 hrs.
Total	38 hrs.

DISTRIBUTIVE EDUCATION
(Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for secondary school teaching.

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

**Note catalogue requirements.

***This program requires an exposure to the business world through a minimum of 200 clock hours of verified work experience, simulation, practicum or combination thereof in a five-year period prior to certification.

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

2.	Professional Requirements	
	Educational Foundations 218, 319, and 406	9 hrs.
	Curriculum and Instruction 450	8 hrs.
	Vocational, Technical Education 410	3 hrs.
	Distributive Education 405	3 hrs.
	Total	23 hrs.
3.	Specialization requirements listed below:	
	Distributive Education 101, 201, 401, 402, 416 and 426	21 hrs.
	Management 320	3 hrs.
	Marketing 231, 340, 341, and 343	12 hrs.
	Vocational, Technical Education 400, 420 and 422	9 hrs.
	Select one of the following:	
	Marketing 344 or 437 or 440, or Management 424	3 hrs.
	Total	48 hrs.

EARLY CHILDHOOD EDUCATION

Early Education is an optional endorsement in combination with the elementary specialization for grades 1-6. This specialization concentrates specifically on competencies required for teaching children of ages 3-5.

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, 319 and 406	9 hrs.
	Curriculum and Instruction 410, and 443	11 hrs.
	Total	20 hrs.
4.	Specialization requirements:	
	Child Development Directed to Early Childhood Education	
	Home Economics 303	3 hrs.
	(Includes actual experiences with children)	
	Organization and Administration of Early Childhood	
	Curriculum and Instruction 367	3 hrs.
	Early Childhood Education and Curriculum to Include:	
	Sciences, Art, Music and Language Development	
	Curriculum and Instruction 409 and 307	6 hrs.
	Speech 250,	3 hrs.
	Speech Development	
	Speech 418	3 hrs.
	Total	18 hrs.

ELEMENTARY SCHOOL TEACHING

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

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, 319 and 406	9 hrs.
	Curriculum and Instruction 400, 405 and 443	15 hrs.
	Total	24 hrs.
4.	Subject specialization requirements:	

Students preparing to teach in an elementary school may select one of the subject specializations for grades 4-8 or a specialization for special education 1-6.

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, K-12, or 7-9. A student who selects English 7-12 may not elect a specialization in Language Arts, Grades 7-9.
3. Specialization requirements listed below.

English 300, 301, 325 and 405 . . . . .	.12 hrs.
English 408, 420, 450 or 451, and 475 . . . . .	.12 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, K-12 or 7-9. Students selecting Journalism 7-12 or Safety 7-12 must complete an additional specialization for grades 7-12 or K-12 if he also chooses to complete the specialization for French 7-9.
3. Specialization requirements listed below.

French 121-122, 223-224 and 314 . . . . .	.15 hrs.
French electives (must include at least 9 hours of literature) . . . . .	.15 hrs.
Total	30 hrs.

FRENCH*

(Grades 7-9)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. A second subject specialization for grades 7-12 or K-12. Students selecting Journalism 7-12 or Safety 7-12 must complete an additional specialization for grades 7-12 or K-12 if he also chooses to complete the specialization for French 7-9.
3. Specialization requirements listed below:

French 121-122	6 hrs.
French 223-224	6 hrs.
French 314	3 hrs.
French electives (must include at least 6 hours of literature)	9 hrs.
Total	24 hrs.

*Minimum hours may be reduced if a student is given advanced placement for secondary work covering equivalent content.

GENERAL SCIENCE
(Grades 7-12)

(To be developed)

HEALTH EDUCATION
(Grades K-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
 2. A second subject specialization for grades 7-12, K-12 or 7-9.
 3. Specialization requirements listed below.
 - Health Education 220, 222, 321, 325, 326, 411, 412, 413, 414 .17 hrs.
 - Physical Education 301 3 hrs.
 - Safety Education 235 3 hrs.
 - Select one of the following: 3-4 hrs.
 - Botany 302, 4 hrs.
 - Biological Sciences 430, 4 hrs.
 - Physical Education 440, 3 hrs.
 - Sociology 200, 3 hrs.
- Total 26-27 hrs.
- Curriculum and Instruction 405 and 428 7 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, 319, and 406 9 hrs.
 - Home Economics 306, 406 and 450 14 hrs.
 3. Specialization requirements:
 - Chemistry 203-204, 215 and 216 10 hrs.
 - Home Economics 110, 203, 210, 212, 213, **303, 305, 307, 314, 351, 354, 358, 405, or 413, 415, 416, 420, 427 and 461. 48 hrs.
- Total 56 hrs.

HOME ECONOMICS
(Grades 7-9)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. A second subject specialization for grades 7-12 or K-12. A student who selects Journalism 7-12 or Safety 7-12 must complete an additional specialization for grades 7-12 or K-12 if he also wishes to complete Home Economics 7-9.

*Substitute for the professional education requirements listed for secondary school teaching.
 **Placement in Home Economics 112 or 213 is determined by score achieved in a clothing construction pretest.

3. Specialization requirements are listed below:
 - Home Economics 110, 112,* or 213, *210, 303, 354,
358 and 415 19-20
 - Electives: Select 5-6 hours from the following 5-6 hrs.
 - Home Economics 203, 212, 314, 420, and 461
- Total 24-26 hrs.

JOURNALISM

(Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
 2. A second subject specialization for grades 7-12. Methods must be completed in the second subject area.
 3. Specialization requirements listed below.
 - Journalism 201, 202, 300, 301, 302, 360, 402, 428 24 hrs.
 - Electives: Select from the following courses 6 hrs.
 - Journalism 240, 304, 308, 310, 440 and 480
- Total 30 hrs.

LANGUAGE ARTS

(Grades 7-9)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
 2. A second subject specialization for grades 7-12 or K-12. A student who selects Journalism 7-12 or Safety 7-12 must complete an additional specialization for grades 7-12 or K-12 if he wishes to complete the specialization for Language Arts 7-12. A student who elects English 7-12 may not select a specialization in Language Arts 7-9.
 3. Specialization requirements listed below:
 - Curriculum and Instruction 203 3 hrs.
 - English 300, 301, 405 or 475, 408 12 hrs.
 - Speech 250 and 418 6 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, K-12 or 7-9.
 3. Specialization requirements listed below.
 - Latin 101-102 and 203-204 12 hrs.
 - Classics 436 3 hrs.
 - Electives: Latin courses with the approval of adviser 18 hrs.
- Total 33 hrs. **

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

**May be reduced by advanced placement.

LIBRARY MEDIA *
(Grades K-12)

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree.
2. A second specialization for grades 7-12, K-12, 7-9 or elementary 1-6.
3. Professional requirements:
 - Educational Foundations 218, 319 and 406 9 hrs.
 - Curriculum and Instruction 405 or 450, 400 or 475 7-9 hrs.
 - Educational Media 465 3 hrs.
 - Educational Media 466 3 hrs.
- Total 22-24 hrs.
4. Specialization requirements:
 - Educational Media 301, 310, 315, 320, 404, 405 and 450 21-23 hrs.
 - Educational Media electives: Select one of the following: 3 hrs.
 - Educational Media 401 or 410
- Total 24-26 hrs.

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

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, 130,** 131, 230, 231, 330, 445, 448, 449 and 450 34 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 examination. The score on the ACT determines the first mathematics course in which a student may enroll.

MATHEMATICS
(Grades 7-9)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. A second subject specialization for grades 7-12 or K-12. A student who selects Journalism 7-12 or Safety 7-12 must complete an additional specialization for grades 7-12 or K-12 if he also wishes to complete mathematics 7-9.

*Majors in school library media must either demonstrate basic competency in typing or else complete Office Administration 103 or its equivalent.
 **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.

3.	Specialization requirements listed below:	
	Curriculum and Instruction 101, 201, 300 and 482 (required for 7-9 specialization only) . . . . .	.11 hrs.
	Electives	8 hrs.
	Any course above Mathematics 110 may be elected	
	Recommended: Mathematics 400 or 401	
	Total	18-19 hrs.

MUSIC
(Grades K-12)

Minimum Requirements for Graduation

1.	General studies requirements for an A.B. degree.	
2.	Professional requirements:	
	Educational Foundations 218, 319 and 406	9 hrs.
	Music Education 338 and 340	6 hrs.
	Curriculum and Instruction 405 and 450	8 hrs.
	Total	23 hrs.
3.	Specialization requirements:	
	Applied Music (24 hours)*	
	Major	14 hrs.
	Minor	6 hrs.
	Techniques	4 hrs.
	Music 261, 262, 263, and 264	
	Music 115-116, 122-123 and 215-216 . . . . .	.20 hrs.
	Major Ensembles	7 hrs.
	Music 301, 316, 320 or 321, 380, 422-423 and 480 . . . . .	.16 hrs.
	Electives	2 hrs.
	Total	69 hrs.

PHYSICAL 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, K-12 or 7-9.	
3.	Specialization requirements listed below.	
	Science	
	Physical Education 301, 321 and 440	9 hrs.
	Total	9 hrs.

Movement Experiences

MEN (14 hours)

General Studies Requirement:	
Physical Education 115 and 116	2 hrs.
Total	2 hrs.
Professional Activities: Select 6 hours from the following:	
Physical Education 251, 252, 253 and 254	6 hrs.
Total	

*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.

Aquatic Activities: Select 1 hour from the following:
 Physical Education 100, 205, 403 or 404 1 hr.

Total 1 hr.

Rhythmic, Gymnastic, and Leadership Activities
 Physical Education 330, 306 and 312 3 hrs.

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 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, 241, 309, 405, 420 or 421 1 hr.

Total 2 hrs.

WOMEN(14 hours)

General Studies Requirement:
 Physical Education 123 or 124 2 hrs.

Total 2 hrs.

Professional Activities:
 Physical Education 108, or 147, 230, 231, 232, 233
 304, 330 12 hrs.

Total 12 hrs.

Theory Foundations

Physical Education 118 2 hrs.
 Health Education 222, or 322, 365, 370, 410, 422, 470 14 hrs.

Total 16 hrs.

Total required hours for the specialization 39 hrs.

PHYSICAL EDUCATION
 (Grades K-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. Requires a second subject specialization for grades 7-12, K-12 or 7-9.
3. The completion of a program in physical education for grades 7-12 plus the addition of the courses listed below will qualify a graduate for teaching physical education in grades K-12.

Physical Education 260, 314 and 350 8 hrs.
 Curriculum and Instruction 405 3-5 hrs.

Total 11-13 hrs.

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

PHYSICS
 (Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching

2.	Requires a second specialization for grades 7-12, K-12 or 7-9.	
3.	Specialization requirements listed below.	
	Biological Science 201 and 202	8 hrs.
	Chemistry 203-204 or 211-212	6 hrs.
	Select two courses from the following sequence	2 hrs.
	Chemistry 213, 214, 215 or 216	
	Physics 201-203* and 202-204	8 hrs.
	Physics 320 and 421	5 hrs.
	Physics electives *	7-8 hrs.
	Recommended:	
	Physics 314 and 315	
	Select 2-3 hours from the following:	
	Physics 301, 304, 305 or 308, 10 hrs.	
	 Total	 36-37 hrs.

RECREATION
(Comprehensive)

The College of Education offers a non-teaching, interdisciplinary program in recreation leading to the Bachelor of Science degree. The program qualified individuals for careers in leadership, supervision, and management of various recreation programs. Graduates in Recreation will become recreation directors in community centers, playgrounds, industries, and in other types of institutions. They may also serve as supervisors in youth serving agencies, municipal, and state agencies, and as directors of camping and outdoor recreation.

Minimum Requirements for Graduation

1.	General studies requirements for an A.B. degree	
2.	Specialization requirements listed below:	
	Recreation 190, 290, 291, 303, 335, 391, 430, 475 and 491	29 hrs.
	Health Education 222	2 hrs.
	Sociology 205	3 hrs.
	Safety Education 235	3 hrs.
	Geography 320	3 hrs.
	Management 320	3 hrs.
	Journalism 330	3 hrs.
	Select six hours from the following:	
	Physical Education 100, 108, 125, 127, 132, 141, 140, 145, 147, 210, 230, 231, 232, 233, 240, 241, 251, 252, 253, 254, 300 or 330	
	Select six hours from the following:	
	Art 113 or 340	
	Music 303	
	Speech 250	
	 Total	 59 hrs.

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.

*Mathematics 120 and 122 or 122 and 130 or 131 are prerequisite for all courses in physics. Mathematics 130, 131 and 230 should be taken by students planning to obtain a M.S. or M.A. degree in physical science.

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, 307, 406, 407 and 42614 hrs.
 - Total14 hrs.
3. Specialization requirements:
 - Psychology (6 hrs)
 - Psychology 201, 3116 hrs.
 - Sociology (9 hours)
 - Sociology 200, 305 and 4099 hrs.
 - Zoology (4 hours)
 - Zoology 3154 hrs.
 - Total19 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
 - Psychology 340, 408
 - Sociology 311, 435, 436
 - Speech 418
5. Electives to complete 128 hours (37 hours)

SAFETY EDUCATION
(Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. A second specialization for grades 7-12 or grades K-12.
3. Specialization requirements listed below:
 - Safety Education 235, 385, 480, and 49012 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
 - Total18 hrs.

SOCIAL STUDIES
(Comprehensive: Grades 7-12)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. Specialization requirements listed below.
 - Anthropology 3013 hrs.
 - Economics 300 and 3426 hrs.
 - Geography 203 and 3176 hrs.
 - History 311-312-313, 321-322, 375 or 42718 hrs.

Political Science 201	3 hrs.
Social Studies 104-105-106, 201-202, or Political Science 202 . . . . .	.15 hrs.
Total	51 hrs.

SOCIAL STUDIES
(Grades 7-9)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. A second specialization for grades 7-12 or K-12. A student who elects journalism 7-12 or safety 7-12 must complete an additional specialization for grades 7-12 or K-12 if he also wishes to complete the specialization for Social Studies 7-9.
3. Specialization requirements are listed below:

Geography 317	3 hrs.
History 311-312-313	9 hrs.
Political Science 201	3 hrs.
Social Studies 104-105-106, 201-202 and 303 . . . . .	.15 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, K-12 or 7-9.
3. Specialization requirements listed below

Spanish 101-102, 203-204 and 314 . . . . .	.15 hrs.
Spanish Electives: . . . . .	.15 hrs.
(Must include at least 9 hours of literature)	
Total	30 hrs.

SPANISH*
(Grades 7-9)

Minimum Requirements for Graduation

1. Requirements as outlined for Secondary School Teaching.
2. A second subject specialization for grades 7-12 or K-12. A student who selects Journalism 7-12 or Safety 7-12 must complete an additional specialization for grades 7-12 or K-12 if he also wishes to complete the specialization for Spanish 7-9.
3. Specialization requirements listed below:

Spanish 101-102, 203-204 . . . . .	.12 hrs.
Spanish 314	3 hrs.
Spanish Electives:	9 hrs.
(Must include at least 6 hours of literature)	
Total	24 hrs.

*Minimum hours may be reduced if a student is given advanced placement for secondary work covering equivalent content.

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, 319, and 406 9 hrs.
 - Curriculum and Instruction 400, 405, and 440 12 hrs.
 - Total 21 hrs.
4. Specialization requirements:
 - Orientation to Exceptional Children
 - Curriculum and Instruction 320, 433 and 453 9 hrs.
 - Related Contents
 - Educational Foundations 435 3 hrs.
 - Speech 418 3 hrs.
 - Other
 - Curriculum and Instruction 443 3 hrs.
 - Total 18 hrs.

NOTE: Minimum hours may be reduced if a student is given advanced placement for secondary work covering equivalent content.

**Option B
Teaching Mentally Retarded*
Secondary Education**

Minimum Requirements for Graduation

1. General studies requirements leading to an A.B. degree.
2. Professional requirements:
 - Educational Foundations 218, 319 and 406 9 hrs.
 - Curriculum and Instruction 450, 440, and 475 12 hrs.
 - Methods in the subject specialization 3 hrs.
 - Total 24 hrs.
3. Subject specializations as outlined for secondary school teachers.
4. Specialization requirements:
 - Curriculum and Instruction 320, 433 and 453 9 hrs.
 - Related Contents
 - Educational Foundations 435 3 hrs.

*Program limited to students certified in mentally retarded with specialization in Physical Education K-12 and Home Economics 7-12.

Speech 418	3 hrs.
Other	
Curriculum and Instruction 443 or 445	3 hrs.
Total	18 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, 319 and 406	9 hrs.
	Curriculum and Instruction 400, 405 and 496 . . . . .	.12 hrs.
	Total	21 hrs.
4.	Specialization requirements:	
	Curriculum and Instruction 320, 425, 444 or 453, 495 . . . . .	.12 hrs.
	Related Contents	
	Educational Foundations 435	3 hrs.
	Other	
	Curriculum and Instruction 443	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, 319 and 406	9 hrs.
	Curriculum and Instruction 450, 496 and 475 . . . . .	.12 hrs.
	Methods in the subject specialization	3 hrs.
	Total	24 hrs.
3.	Subject specializations as outlined for secondary school teachers.	
4.	Specialization requirements:	
	Curriculum and Instruction 320, 425 and 444 or 453, 495 . . . . .	.15 hrs.
	Related Contents	
	Educational Foundations 435	3 hrs.
	Total	15 hrs.

SPEECH

Oral Communication, Grades 7-12)

Minimum Requirements for Graduation

- Requirements as outlined for Secondary School Teaching.
- A second subject specialization for grades 7-12, K-12 or 7-9.

*This option is limited to Physical Education majors, K-12.

3. Specialization requirements listed below.	
Speech 103, 305,* and 202	6 hrs.
Speech 205, 210, 230, 312-313, 320, 403, 418, 432 and 450 . . . . .	.28 hrs.
Total	34 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 **, or Psychology 311	3 hrs.
Educational Foundations 319, 406 and 435	9 hrs.
Total	12 hrs.
3. Specialization requirements:	
Speech 240, 370, 420, 422, and 424 . . . . .	.15 hrs.
Speech 425, 426, 427, 429, 439, 460, 463, 468 and 470 . . . . .	.18 hrs.
Electives (Recommended) . . . . .	.15 hrs.
Curriculum and Instruction 320	3 hrs.
English 475	3 hrs.
Psychology 201, 340 and 408	9 hrs.
Total	60 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.
**Educational Foundations 218 or Psychology 311 must be taken before Educational Foundations 319.

School of Medicine

The School of Medicine and Associated Health Professions provides education and training for careers in health care service. The programs emphasize the desirability of a coordinated effort by the various health service professions.

DEGREE PROGRAMS

The School of Medicine and Associated Health Professions offers the following degrees:

1. Associate of Applied Science in Medical Laboratory Technology
2. Associate of Science in:
 - a. Cytotechnology
 - b. Nursing
3. Bachelor of Science in:
 - a. Cytotechnology
 - b. Medical Technology
 - c. Nursing
4. Doctor of Medicine (Applications for the first class of the medical program are expected to be accepted in the Fall of 1976. The program will emphasize primary care, rural health delivery, and industrial medicine.)

NOTE: Undergraduate students interested in Preprofessional Programs in Medicine, Dentistry, Veterinary Science and similar health related areas should consult page 57.

ASSOCIATED HEALTH PROFESSIONS

Specific Requirements

Associate of Applied Science in Medical Laboratory Technology

Seventy-one semester hours are required for the A.A.S. (MLT) Degree.

Regular admission to Marshall University on the basis of accredited high school transcripts or General Education Test (GED) scores is a prerequisite for admission to the program.

Subject to university regulation, up to sixteen hours of applicable college academic credit may be transferred from another accredited institution of collegiate grade. A minimum of twenty semester credits in required academic subjects must be taken at Marshall University.

Credit for clinical training and/or experience in other medical laboratory programs such as CLA or military medical technician may be given upon certification of the Clinical Director of the Medical Laboratory Technician Program who will determine credit on the basis of: (1) The results of equivalency examination prepared by Education Testing Service and/or (2) proficiency examinations together with the experience record of the individual student.

Admission to the second year clinical studies requires completion of 36 hours in the required subjects but this does not of itself assure admission to the clinical program. Students wishing to be considered for the second year study should make application upon forms obtainable from the Director of Medical Laboratory Technology by April 1 of the first year. No application will be accepted after June 1 for the September class.

In the event that more applications for clinical studies are received than can be accommodated, selection of students will be made on the basis of quality-point averages and individual interview examinations.

The clinical year begins in September and is completed twelve months later.

Curriculum For Medical Laboratory Technician

First Year

First Semester	Hrs.	Second Semester	Hrs.
BSC 101 (Biology)	4	SPH 103 (Speech)	3
PSY 201 (Psychology)	3	BSC 102 (Biology)	4
MTH 110 (Mathematics)	3	CHM 204 (Chemistry)	4
CHM 203 (Chemistry)	4	BOT 302 (Microbiology)	4
	<u>14</u>		<u>15</u>

Summer

	Hrs.
CHM 345 (Quant.)	3
ZOO 225 (Anat. & Physiol.)	4
	<u>7</u>

Total First year credit

36 hrs.

Second Year

First Semester	Hrs.	Second Semester	Hrs.
MLT 200 (Basic Procedures)	6	MLT 201 (Tech. & Theory)	4
MLT 202 (Clinic)	2	MLT 203 (Clinic)	6
MLT 204 (Biochem)	6	MLT 205 (Med. Microbiology)	6
	<u>14</u>		<u>16</u>

Summer

	Hrs.
MLT 206 (Instrumentation)	3
MLT 207 (Research)	2
	<u>5</u>

Specific Requirements

**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 no 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 School of Medicine and Associated Health Professions. 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.

Cytotechnology Curriculum

First Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 211-213	4	Chemistry 212-214	4
English 101	3	English 102	3
Biological Science 101	4	Biological Science 102	4
Mathematics 120 or at least 20 on ACT	3	Mathematics 122 or at least 26 on ACT	3
Electives	2	Electives	2
	<hr/> 16		<hr/> 16

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 345	4	Zoology 315	4
Physics 201-202	4	Physics 203-204	4
Zoology 301	4	Zoology 300	4
Electives	4	Electives	5
	<hr/> 16		<hr/> 17

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 327	3	Chemistry 300-301	5
Chemistry 361	2	Botany 302	4
Zoology 424	4	Electives	6
Electives	7		
	<hr/> 16		<hr/> 15

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Cytotechnology 438	3	Cytotechnology 441	3
Cytotechnology 439	3	Cytotechnology 442	3
Cytotechnology 440	6	Cytotechnology 443	3
		Cytotechnology 444	3
	<hr/> 12		<hr/> 12

Summer Session

First Semester	Hrs.	Second Semester	Hrs.
Cytotechnology 445	3	Cytotechnology 447	4
Cytotechnology 446	1		
	<hr/> 4		<hr/> 4

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.

Specific Requirements

Bachelor of Science in Medical Technology

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 physician's laboratories.

Training standards for medical technologists are under the general supervision of the Council on Medical Educations and The National Accrediting Agency for Clinical Laboratory Sciences, 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 the 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; 22 semester hours - (1) one year general chemistry; (2) quantitative analysis; (3) organic chemistry and (4) biochemistry. Biological sciences: 16 hours to include one year general biology, histology, and bacteriology. Mathematics: 3-6 semester hours to include college algebra (if ACT score is less than 20) and plane trigonometry. Physics: 8 semester hours. One year general physics. Electives: 39-45 semester hours. Electives as for any professional career, are courses in arts, humanities including English, social sciences, or additional courses in the natural sciences. The following are suggestions: Foreign languages 3-12 hours, Literature 6 hours, Bible and Religion, classics or Philosophy 2-3 hours, Social Sciences 15 hours, Philosophy 304 or 453 3-5 hours, Botany 415 or 416 4 hours, Biological Science 404 or 407 4 hours, Zoology 300, 301, 315, 424 16 hours.

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 before 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 applications 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 National Accrediting Agency for Clinical Laboratory Sciences (ASCP).

Curriculum in Medical Technology

First Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 211-213	4	Chemistry 212-214	4
Mathematics 120 or at least 20 on ACT	3	Mathematics 122 or at least 26 on ACT	3
Biological Science 101	4	Biological Science 102	4
English 101	3	English 102	3
Electives	2	Electives	2
	<hr/> 16		<hr/> 16

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 327	3	Chemistry 300-301	5
Chemistry 361	2	Physics 203-204	4
Physics 201-202	4	Speech 103	3
Electives	6	Electives	4
	<hr/> 15		<hr/> 16

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 345	4	Zoology 300	4
Botany 302	4	Electives	12
Electives	9		
	<hr/> 17		<hr/> 16

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Medical Technology 411	3	Medical Technology 414	4
Medical Technology 412	4	Medical Technology 415	1
Medical Technology 413	7	Medical Technology 416	9
	<hr/> 14		<hr/> 14

Summer Session

First Semester	Hrs.	Second Semester	Hrs.
Medical Technology 418	3	Medical Technology 419	4
Medical Technology 420	2	Elective	2
	<hr/> 5		<hr/> 6

NURSING

Specific Requirements

Associate in Science in Nursing

The Department of Nursing Education 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 should be in the upper half of his/her 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 Associate in Science in Nursing Degree Program.

Applicants to this Nursing Program are urged to complete the American College Test by late spring of their junior year in high school so that test scores will be available at the time that applications to the nursing program are reviewed. All applications will be processed in November for the following nursing class.

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

If the applicant has an American College Test score below 19, the applicant must have at least 12 credit hours with a 2.5 quality point average at the time of application and continue to maintain this average on all work attempted while waiting admission to the Nursing Program. All transfer students from other colleges or universities must have an overall quality point average of 2.5.

The Department of Nursing Education admits students from other nursing programs. In addition to meeting the admission requirements of the University and Nursing Program, the applicant may challenge the nursing courses by requesting placement examinations. If the challenge is successful, credit will be given for the course. Prerequisite science and support courses must be completed.

Enrollment in the Nursing classes is limited because of the limited availability of clinical learning facilities in health agencies, science laboratory space on campus and availability of faculty.

There are no specific age limitations for admission to the Associate in Science in Nursing Degree Program as long as all other entrance requirements are met.

Applicants who have been accepted by the university and are eligible to be admitted to the Nursing Program, must have an interview and submit a completed health record. Any serious health problem must be corrected or controlled before applying to the Nursing Program. The completed health record must be sent to the Department of Nursing Education and then a copy of your health record will be forwarded to Student Health Services.

Additional health information is required before the applicant is admitted to nursing courses. This information includes a recent report of required immunizations, a copy of recent chest x-ray, complete blood count, urinalysis and serology. This additional health information is to be sent directly to the Department of Nursing Education. Thereafter, a yearly physical examination, chest x-ray, complete blood count and urinalysis are required to continue in the Nursing Program. Any serious health problem must be corrected or controlled throughout the program. The medical cost is to be assumed by the student.

After the applicant has been accepted into the Nursing Program, information about ordering uniforms, liability insurance and additional health information needed will be sent to the applicants.

The cost of uniforms is approximately \$60.00, excluding the cost of shoes, hose, scissors and watch. Professional liability insurance coverage is available and recommended.

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 laboratory experiences and conduct patient-centered seminars.

The student is required to maintain a 2.0 quality point average or better in all Nursing courses and a 2.0 quality point average or better in all other courses attempted at the University to progress through the Nursing Program. In addition to these requirements, the student must perform satisfactorily in all clinical areas.

Cooperating health agencies include: Cabell-Huntington Hospital, Cabell Huntington Health Department, Huntington State Hospital, Huntington Hospital, Inc., Doctor's Memorial Hospital, 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.

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 for Associate of Science in Nursing

First Year

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Home Economics 210	3	Chemistry 100	4
Zoology 225	4	Psychology 201	3
Nursing 101	5	Nursing 102	5
		Elective	2
	<hr/>		<hr/>
	15		17

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Sociology 200	3	Nursing 210	3
Nursing 204	5	Nursing 218	5
Nursing 214	5	Nursing 220	5
Elective	3	Botany 302	4
	<hr/>		<hr/>
	16		17

Specific Requirements

Bachelor of Science in Nursing

The West Virginia Board of Regents has approved the Bachelor of Science in Nursing Program for initiation in August, 1975. The program will be organized to accommodate graduates of associate degree or diploma nursing programs.

Enrollment will be limited and priority for admission given to qualified Registered Nurses. Persons interested in entering the program should contact Mrs. Bonnie Douglas, Director of the BSN program. The curriculum plan and an application for admission to the program will be mailed to prospective students as soon as they are available.

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.
Social Studies 303 W. Va. History, Geography and Government 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.

INTERNATIONAL AFFAIRS

Courses in economics, geography, history, modern languages, and political science.

Courses of Instruction

ABBREVIATIONS

PR Prerequisite
CR Corequisite

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

ACCOUNTING (ACC)

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.

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 201.)
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.)

ART

- 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. PR: 101 for 102.)
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. I, II, S.
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. I, II, S.
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. I, II, S.
Design with emphasis on three dimensional form.
216. **COMMERCIAL ART.** 3 hrs. I, II, S.
Projects in advertising layouts, merchandise display, and container design.
305. **CERAMICS.** 3 hrs. I, II, S.
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. I, II, S.
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. I, II, S.
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. I, II, S.
Watercolor medium in expressing still life, landscape, and the human figure. (PR: Art 101 and 102)
360. **MIXED MEDIA.** 3 hrs. I.
Projects in painting, drawing and mixed media. (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. (PR: 401 for 402.)
403. **ORIENTAL ART.** 3 hrs.
A historical survey of the architecture, painting, and sculpture of China, India, and Japan.
404. **20th CENTURY ART.** 3 hrs. I, II.
A survey of the development of architecture, painting and sculpture in the western world during the present century.
405. **ART IN AMERICA.** 3 hrs. I, II.
A survey of the development of architecture, painting, and sculpture from colonial times to the present.
406. **FIGURE DRAWING.** 3 hrs. I, II, S.
Practice in drawing from the posed human figure. (PR: Art 101 and 102)

407. **PREHISTORIC AND PRIMITIVE ART. 3 hrs. I.**
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. II, S.**
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. I, II, S.**
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. I.**
A survey of the evolution of art education, philosophy, and a study of problems related to art education on the elementary and high school level. (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 intaglio, lithography, serigraphy, relief collagraphy and new techniques in printmaking.

ART EDUCATION

Listed under Art

BIBLE AND RELIGION (BR)

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. **SOIOLOGY OF RELIGION. 3 hrs.**
An investigation into the nature of religion as a social phenomenon.
- 495II-496H. **READINGS FOR HONORS IN BIBLE AND RELIGION. 4; 4 hrs. See Honors Courses.**
Both courses must be taken in order to receive credit (PR: Permission of Department Chairman.)

BIOLOGICAL SCIENCES (BSC)

101. **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-2lab.

102. **BIOLOGICAL SCIENCE (Animal Biology).** 4 hrs. I, II, S.
Biological principles of structure, function, development, growth, classification, and evolution with emphasis on man and other vertebrates. 3 lec-2 lab. (PR: Biological Science 101).
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.
Principles and methods of fixing, imbedding, sectioning, and staining of plant and animal preparations. Methods for identification and localization of cellular components. Introductory photomicrography. 1 lec-4 lab. (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 102)
413. **(ZOO 413) PRINCIPLES OF ORGANIC EVOLUTION.** 3 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.** 4 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 101 (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 101 or equivalent)
416. **PLANT TAXONOMY.** 4 hrs. II, S.
Recognition of our native seed plants and ferns. 2 lec-4 lab. (PR: Biological Science 101 or equivalent)
418. **MYCOLOGY AND PLANT PATHOLOGY.** 4 hrs. I.
Nature, cause and control of plant disease. 2 lec-4 lab. (PR: Biological Science 101 or equivalent)

ZOOLOGY (ZOO)

212. **INVERTEBRATE ZOOLOGY.** 4 hrs. I, II, S.
Classification, structure and relationships of the important animal phyla. (PR: Biological Science 102)
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 102)

301. **VERTEBRATE EMBRYOLOGY.** 4 hrs. I, S.
Vertebrate development based chiefly on frog, chick and pig embryos. 2 lec-4 lab. (PR: Biological Science 102)
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 102).
315. **HUMAN ANATOMY AND PHYSIOLOGY.** 4 hrs. II, S.
The structure and functions of the human body. 3 lec-2 lab. (PR: Biological Science 102)
402. **VERTEBRATE NATURAL HISTORY.** 4 hrs. II, S.
The origin, classification, life histories, habits and distribution of fishes, amphibians, reptiles and mammals. 1lec-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 102)
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.** 3 hrs. I, S.
The progress of animal life through time with a discussion of known causes. (PR: Zoology 212)
414. **ENTOMOLOGY.** 4 hrs. S.
Anatomy, classification, life histories and economic importance of representative insects. 2 lec-4 lab. (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.
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

CHEMISTRY (CHM)*

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-2 lab.
- 190H-191H. **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 inter-relationships 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. (PR: Chemistry 203 or junior standing.)
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, 214, 215 or 216.)
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.** 2 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. 2 lab-1 lec.

*The Department of Chemistry is approved by the Committee on Professional Training of the American Chemical Society.

214. **QUANTITATIVE ASPECTS OF CHEMISTRY. 2 hrs. 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. 2 lab-1 lec.
215. **ENVIRONMENTAL CHEMISTRY. 2 hrs. 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. 2 lab.-1 lec.
216. **THE ELEMENTS OF LIFE. 2 hrs. 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-291H. **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. 2 hrs. II.**
Introduction to methods of identification and characterization of biochemical systems. 4 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.
- 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. 4 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-4 lab. (PR: Chemistry 357, Mathematics 231)
361. **INTRODUCTORY ORGANIC CHEMISTRY LAB. 3 hrs. I, II, S.**
An introductory survey of experimental organic chemistry. 6 lab. (PR: Any two from 213, 214, 215 or 216)
362. **INTERMEDIATE ORGANIC CHEMISTRY LAB. 3 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 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. 1 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. 3 hrs.**
A study of physical and chemical properties and periodic relationships of inorganic materials. 3 lec. (PR: Chemistry 327 or 355)
449. **ADVANCED INORGANIC CHEMISTRY II. 3 hrs.**
A detailed consideration of bonding, structure, reaction rates and equilibrium involving

- inorganic materials, 3 lec. (PR: Chemistry 448)
456. **ADVANCED ANALYTICAL CHEMISTRY.** 3 hrs.
Modern theories and methods of analysis with emphasis on instrumental methods. 2 lec-2 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.** 3 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

GREEK (GRK)

- 201-202. **ANCIENT GREEK FIRST YEAR.** 3; 3 hrs. I, II.
301-302. **ANCIENT INTERMEDIATE GREEK.** 3; 3 hrs. I, II.
Varied readings including selections from Homer's Iliad, Dialogues of Plato and the New Testament. (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.
Varied readings including selections from 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.
327. **ADVANCED PROSE COMPOSITION.** 3 hrs.
329. **ELEGIAC 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. I, II, S.
Study of Latin and Greek word elements to build skill in English vocabulary, both general and technical (or scientific - medical).

319. **CLASSICAL MYTHOLOGY. 3 hrs. I, II.**
Study of the development of myth in ancient Greece and Rome; its place in ancient culture and its survival in the modern world.
321. **ANCIENT GREEK LITERATURE (Taught in English). 3 hrs.**
Study of representative works for their humanistic and literary values in the ancient and modern worlds.
322. **ANCIENT ROMAN LITERATURE (Taught in English). 3 hrs.**
Study of representative works for their humanistic and literary values in the ancient and modern worlds.
435. **GREEK CIVILIZATION. 3 hrs. I.**
Study of ancient Greek culture, emphasizing parallels with present-day issues.
436. **ROMAN CIVILIZATION. 3 hrs. II.**
Study of ancient Roman culture, emphasizing parallels with present-day issues.

COUNSELING AND REHABILITATION (CR)

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. (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. (PR: Counseling and Rehabilitation 306, 307, 406, 425 and 426. 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.

CRIMINAL JUSTICE (CJ)

206. **CRIMINOLOGY. 3 hrs.**
Introduction to the social aspects of criminal behavior. (Same as SOC 206).
207. **JUVENILE DELINQUENCY. 3 hrs.**
Theories of delinquency causation and prevention; organizations and functions of social agencies operating in the field. (Same as SOC 207).
211. **INTRODUCTION TO LAW ENFORCEMENT. 3 hrs.**
Basic course dealing with agencies involved in administration of justice; history and organization of local state and federal agencies; courts, trial, jails, and prisons; probation and parole.
231. **INTRODUCTION TO CORRECTIONS. 3 hrs.**
A survey of the historical development of the systems of punishment and rehabilitation. Analysis of the reasons for incarceration of offenders.
311. **POLICE ADMINISTRATION. 3 hrs.**
Functions and activities of police agencies. Police department organizations, responsibilities of police chiefs. Current administrative experimentation on law enforcement agencies.
312. **CRIMINAL INVESTIGATION. 3 hrs.**
Investigation methodology, relations of the detective with other police divisions; Modus Operandi; sources of information; surveillance, interrogation, follow-up procedures.
321. **CRIMINAL JUSTICE ADMINISTRATION. 3 hrs.**
Criminal procedure from apprehension to conviction arrests, extradition proceedings;

- information and indictment; functions of the grand jury and the coroner; trial procedure.
322. **CRIMINAL LAW. 3 hrs.**
History and development of criminal law, elements of a crime, parties to a crime, types of offenses.
323. **CRIMINAL PROCEDURE. 3 hrs.**
Admissibility of evidence and confessions, recent civil rights decisions, reconciling individual rights and community interest in law and order.
331. **PROBATION AND PAROLE. 3 hrs.**
Organization of systems of after-care treatment of juvenile and adult offenders released under probation and parole.
402. **SEMINAR IN CRIME PREVENTION. 3 hrs.**
Techniques for crime prevention analyzed from two orientations; crime prevention by environmental engineering and crime prevention by behavior modification.
404. **THEORETICAL CRIMINOLOGY. 3 hrs.**
A critical analysis of the major criminological theories and their empirical foundations. Current theory and research receive greater emphasis than historical development. (PR: CJ 206 or 207.)
411. **POLICE SUPERVISION. 3 hrs.**
First-level supervision; employee morale and discipline; selection, training, placement, promotion; techniques of leadership. (PR: CJ 211, 311.)
412. **COMMUNITY RELATIONS. 3 hrs.**
Law enforcement and the community; relation to schools, public education functions of law enforcement personnel; community attitudes. (PR: CJ 211 or consent of Instructor.)
413. **BUSINESS AND INDUSTRY SECURITY. 3 hrs.**
Selection, training and staffing of a security force; security devices available; techniques of internal security; ground security; security techniques applicable to personnel selection; legal problems. (PR: CJ 211.)
414. **CRIME STATISTICS AND DATA SYSTEMS. 3 hrs.**
A study of crime statistics and their interpretations. A survey of the system of reporting crime statistics both on the local and the national level. The use of the NCIC and other data banks.
421. **CORRECTIONS AND THE LAW. 3 hrs.**
Review of criminal law principles and theory as related to corrections.
422. **LAW OF EVIDENCE. 3 hrs.**
Leading rules and principles of exclusion and selection; burden of proof, nature and effect of presumptions; proof of authenticity and contents of writings; examinations, competency and privilege of witnesses.
431. **CRIMINAL REHABILITATION. 3 hrs.**
Legal and historical background of rehabilitation; roles of correctional workers; and nature of the rehabilitation process.
432. **CORRECTIONAL INSTITUTIONS. 3 hrs.**
Analysis of the theory of organizations and administration of correctional institutions; principles of institutional corrections.
433. **CORRECTIONAL ADMINISTRATION. 3 hrs.**
Objectives of correctional institutions; records; personnel, program development, security; educational programs. (PR: CJ 432.)
451. **INTERNSHIP. 3 hrs.**
The placement of an individual into a criminal justice agency (police, probation, courts, jails) to observe and participate in its operation. (PR: Consent of the Instructor.)
461. **SPECIAL TOPICS IN CRIMINAL JUSTICE. 3 hrs.**
A study of special interest criminal justice topics under the supervision of a qualified faculty member. (PR: Consent of the Instructor.)
471. **INDEPENDENT STUDY**
This course permits the student to undertake supervised research (field or library) in any area where there is no appropriate course. (PR: Consent of the Instructor.)
480. **TRAFFIC LAW AND ENFORCEMENT. 3 hrs.**
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. (Same as SED 480/580.)

CURRICULUM AND FOUNDATIONS (CI)

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.** 3 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. (CR: Permission of instructor.)
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 and admission to teacher education.)
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 and admission to teacher education. 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 and 443 and admission to teacher education. 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: Curriculum and Instruction 367 and 443. 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: CI 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: CI 320)
425. **SPECIAL EDUCATION: ADVANCED CURRICULUM DEVELOPMENT FOR EXCEPTIONAL CHILDREN.** 3 hrs. I, II, S.
A study of trends in curriculum development for exceptional children. Directive teaching approaches for children with problems in learning are emphasized. (PR: CI 320.)
428. **METHODS AND MATERIALS IN TEACHING HEALTH.** 3 hrs. I, II, S.

- Survey of methods and materials for teaching health. Field experience in a school setting is required. (PR: Educational Foundations 319.)
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 and admission to teacher education. CR: Curriculum and Instruction 453.)
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 and admission to teacher education.)
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 and admission to teacher education.)
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,
Principles underlying the teaching of reading in junior and senior high schools. (PR: Educational Foundations 319 and admission to teacher education.)
446. **READING EDUCATION: INDIVIDUAL ASSESSMENT AND PRESCRIPTION LANGUAGE INSTRUCTION.** 3 hrs. I.
Study of reading-language difficulties, current diagnostic devices and techniques, and preventive 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 AND METHODS FOR 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 and admission to teacher education.)
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 and admission to teacher education.)
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 and admission to teacher education.)
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 and admission to teacher education.)
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 and admission to teacher education.)
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 and admission to teacher education.)
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. (PR: Educational Foundation 319. Physical Education 260, 314, 350 and admission to teacher education.)

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 and admission to teacher education.)
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 and admission to teacher education. CR: Curriculum and Instruction 450.)
476. **SECONDARY EDUCATION: TEACHING SPEECH.** 3 hrs. I, II.
Survey of materials and methods for teaching speech. Junior clinical experience of 25 hours in a school setting is required. (PR: Educational Foundations 319, 24 hours of speech and admission to teacher education.)
- 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).

CYTOTECHNOLOGY (CYT)

438. **CYTOLOGICAL METHODOLOGY.** 3 hrs. I.
Routine methods in Cytology (specimen processing, staining, record keeping). Special methods (filtration, concentrations) Clinical microscopy (routine and special methods: light, phase, dark field).
439. **ELEMENTARY CYTOLOGY.** 3 hrs. I.
General fundamentals of (cell structure, embryology, bacteriology and Mycology as related to the field of Cytology, Anatomy, and Histology of the body as related to the field of cytology.)
440. **GENITAL CYTOLOGY.** 6 hrs. I.
Cytology of the female genital tract in health and disease. The study of cells in normal, benign, and malignant stages of development.
441. **CYTOLOGY OF THE RESPIRATORY TRACT.** 3 hrs. II.
Cytology of the respiratory epithelium in health and disease. Study of the cell in normal conditions, in benign and malignant pathological conditions.
442. **CYTOLOGY OF THE BODY CAVITIES.** 3 hrs. II.
Cytology of the pericardial, pleural, and abdominal cavities. Study of primary and metastatic tumors.
443. **CYTOLOGY OF THE URINARY TRACT.** 3 hrs. II.
Study of the normal, benign, and malignant cell changes as they occur in health and disease of this system.
444. **CYTOLOGY OF THE BREAST.** 3 hrs. II.
Cytology of breast secretion. Cell changes resulting from benign diseases and malignant tumors. Primary and secondary tumors are considered.
445. **CYTOLOGY OF THE GASTRO-INTESTINAL TRACT.** 3 hrs. S.
Study of the Alimentary Canal in health and disease. Methods for aiding in obtaining gastric washings.
446. **SEMINAR.** 1 hr. II.
Methods of case follow-up. Administration and professional relations with physicians and patients.
447. **ADVANCED METHODS IN CYTOLOGY.** 4 hrs. S.
Methods and procedures of tissue culture, chromosome analysis, and microphotography. Study of chromosome anomalies including Turner's, Down's, and Klinefelter's Syndrome. Study of pure and mosaic anomalies.

DISTRIBUTIVE EDUCATION (DE)

101. **INTRODUCTION TO DISTRIBUTIVE EDUCATION.** 3 hrs. I.
The course is planned to give prospective Distributive Education Teacher-Coordinators an over-view of the Distributive Education Program: its history and development, its aims and objectives, and activities of a Distributive Education program and requirements for persons employed in this field.
202. **OCCUPATIONAL ANALYSIS IN DISTRIBUTION.** 3 hrs. I.
A study of the structure of occupations for the purpose of developing competencies in career development and curriculum development. Students will analyze distributive jobs in

terms of specific and related job duties and competencies and will investigate career continuums.

- 401-402. **AREAS OF DISTRIBUTION. 3 hrs. I, II.**
Personal improvement, selling, merchandising information, visual merchandising, management, and marketing as these areas affect Distributive Education high school, adult and post-secondary curriculums.
405. **METHODS OF TEACHING DISTRIBUTIVE SUBJECTS. 3 hrs. I.**
Unit and lesson planning; cooperative and project methods of teaching; classroom management and control; demonstration teaching; coordination techniques; evaluation of achievement.
416. **DIRECTED STORE EXPERIENCE. 6 hrs. S.**
Prior to entering senior year, students spend approximately 500 hours in sales or sales supporting activities and complete a workbook describing all major phases of the distributive organization providing the experience.
426. **DIRECTED SUPERVISORY TRAINING. 3 hrs. I.**
During the fall semester of the senior year, students spend four weeks in direct observation of supervisory and management activities in a distributive business.

ECONOMICS (ECN)

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 and the College of Applied Science.
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 and 242, or 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 and 242 or 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 and 242 or 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 and 242 or 300 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 and 242 or 300 or equivalent, or consent of the instructor.)
348. **LABOR AND GOVERNMENT. 3 hrs.**
Relationships between labor and government; economic results of laws affective labor-management relations. (PR: Economics 241 and 242 or 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 and 242 or 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 and 242 or 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 and 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 and 242 or 300 or equivalent)
422. **INTRODUCTION TO MATHEMATICAL ECONOMICS. 3 hrs.**
Modern mathematical methods for use in economics and other social sciences. (PR: Economics 241 and 242 and 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, and 242, and Mgt. 318, and Math 120 or equivalent).
430. **MANAGERIAL ECONOMICS. 3 hrs. I.**
The use of economic principles by management; pricing, sales policies, budgeting, forecasting, inter-firm relations. (PR: Economics 241 and 242 or 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 and 242 or 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 and 242 or 300 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 and 242 or 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 and 242, or 300 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)

EDUCATIONAL FOUNDATIONS (EDF)

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, Educational Foundations 319 and admission to teacher education.)
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. (PR: Educational Foundations 319 and admission to teacher education.)

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 and admission to teacher education.)

EDUCATIONAL MEDIA (EDM)

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.

ENGINEERING TECHNOLOGY

CIVIL ENGINEERING TECHNOLOGY (CET)

132. **STRUCTURAL DRAFTING.** 2 hrs. I.

Continuation of principles of orthographic projection, basic descriptive and vector geometry. Name and function of structural members, detail methods, floor plans,

- foundation plans, connection details, and elevations. 6 lab. (PR: General Engineering Technology 111.)
134. **SURVEYING. 3 hrs. II.**
Theory of measurements and its application, and use of modern surveying instruments. Laboratory consists of field exercises with tape, compass, level, and transit. 2 lec-3 lab. (PR: General Engineering Technology 111 and Mathematics 122.)
231. **ROUTE SURVEYING. 2 hrs. I.**
Preliminary, locations, and construction surveys for highways, railways, airports, and pipelines. 6 lab. (PR: Civil Engineering Technology 134.)
232. **SANITARY ENGINEERING. 3 hrs. II.**
Sources, collection, treatment, and distribution of water. Sewage collection and treatment. Includes laboratory analysis and field trips. 3 lec. (PR: Chemistry 100 and Engineering Mechanics Technology 225.)
233. **SOILS ENGINEERING. 3 hrs. I.**
Soil types, their engineering characteristics and behavior. Laboratory testing of soils. 2 lec-3 lab. (PR: Engineering Mechanics Technology 124.)
234. **TRANSPORTATION TECHNOLOGY. 2 hrs. II.**
Design features of highways, railroads, and airports. 2 lec. (PR: Civil Engineering Technology 231 and 233.)
235. **STRUCTURAL DESIGN I. 4 hrs. I.**
Analysis and design of steel and timber members and structures. 3 lec-3 lab. (PR: Engineering Mechanics Technology 124.)
236. **STRUCTURAL DESIGN II. 3 hrs. II.**
Design of reinforced concrete members and structures. 2 lec-3 lab. (PR: Engineering Mechanics Technology 124.)
238. **CONSTRUCTION METHODS. 2 hrs. II.**
Familiarization with problems encountered in construction operations including job planning, preparation of bids, contracts, equipment requirements, and choice of method. 2 lec. (PR: Civil Engineering Technology 134, 233 and 235. CR: Civil Engineering Technology 236.)

ELECTRICAL ENGINEERING TECHNOLOGY (EET)

152. **ELECTRICAL DRAFTING. 2 hrs. II.**
Application of engineering drafting principles to electrical problems. Symbols, block diagrams, schematic diagrams, wiring diagrams, circuit and control panel layouts. 6 lab. (PR: General Engineering Technology 111.)
154. **FUNDAMENTALS OF ELECTRICITY. 3 hrs. II.**
Basic electrical concepts and definitions, basic D.C. circuits involving Ohm's and Kirchoff's laws, magnetism, simple magnetic circuits, reactance, impedance, and single phase A.C. circuits. 2 lec-3 lab. (PR: Physics 200, CR: Mathematics 190.)
253. **CIRCUITS I. 3 hrs. I.**
Detailed study of the effect of resistance, inductance, and capacitance in D.C. circuits, time constants, damped circuits, Thevenin and Norton equivalent circuits, and the impulse source and response. 2 lec-3 lab. (PR: Electrical Engineering Technology 154.)
254. **CIRCUITS II. 4 hrs. II.**
Continuation of Electrical Engineering Technology 253. Detailed study of resistance, inductance, and capacitance in single phase and polyphase circuits. Effect of variations in circuit parameters, including variations in source frequency. 3 lec-3 lab. (PR: Electrical Engineering Technology 253.)
255. **FUNDAMENTALS OF ELECTRONICS. 2 hrs. I.**
Basic principles of vacuum tubes and semiconductor devices, analysis of diode circuits and resultant wave forms, rectification circuits and filters, elementary transistor principles and circuitry. 2 lec. (CR: Electrical Engineering Technology 253.)
256. **ELECTRICAL MACHINERY. 2 hrs. II.**
Study of D.C. motors and generators, including operating characteristics, controls, and applications. Consideration of single and polyphase motors, transformers, and relays, and their applications. 1 lec-3 lab. (PR: Electrical Engineering Technology 154.)
258. **ELECTRICAL DESIGN AND LAYOUT. 4 hrs. II.**
Electrical methods in construction. Distribution systems, lighting, heating, motors, codes, and practices. Includes a design project with a written report, schematic and layout drawings, specifications, and data sheets. 2 lec-6 lab. (PR: Electrical Engineering Technology 152. CR: Electrical Engineering Technology 254 and 256.)

ENGINEERING MECHANICS (EM)

210. **ENGINEERING MECHANICS. 5 hrs. I.**
Statics and dynamics of particles and rigid bodies, vector treatment of forces, units, equilibrium, centroids, moments of inertia, friction, Newton's laws, work and energy, and

impulse and momentum. (PR: General Engineering Technology 111 and 115. CR: Mathematics 230 and Physics 211.)

211. MECHANICS OF DEFORMABLE BODIES. 4 hrs. II.

Internal forces in bodies, analysis of stress and strain, material properties, axial load, shear, bending moment, torsion, combined stresses, biaxial stress, buckling, beams, columns, and deflection. (PR: Engineering Mechanics 210. CR: Mathematics 231.)

ENGINEERING MECHANICS TECHNOLOGY (EMT)

124. STATICS AND STRENGTH OF MATERIALS. 5 hrs. II.

Particle and rigid body of mechanics for static force systems. Properties of materials, shear and moment diagrams, stress in shafts, beams, and columns, combined stress, deflection. 5 lec. (PR: General Engineering Technology 111 and 115, Mathematics 122, Physics 200. CR: Mathematics 190.)

223. KINEMATICS. 2 hrs. I.

Geometry of motion of particles and rigid bodies. Study of mechanisms. Includes a brief introduction to kinetics. 2 lec. (PR: Engineering Mechanics Technology 124, Mathematics 190.)

224. ENGINEERING MATERIALS. 2 hrs. II.

Properties of engineering materials and materials testing. 1 lec-3 lab. (PR: Chemistry 100, Engineering Mechanics Technology 124.)

225. FLUID MECHANICS. 3 hrs. I.

Principles of hydrostatics and hydrodynamics. 2 lec-3 lab. (PR: Engineering Mechanics Technology 124, Mathematics 190.)

GENERAL ENGINEERING TECHNOLOGY (GET)

111. ENGINEERING GRAPHICS. 2 hrs. I.

Orthographic projection, lettering, technical sketching, conventional representation, introduction to descriptive geometry. 6 lab. (PR: Entrance mathematics requirements.)

112. TECHNICAL COMMUNICATIONS. 2 hrs. II.

Fundamentals of expository writing, business letters, and technical reports. 2 lec. (PR: English 101.)

115. INTRODUCTION TO TECHNOLOGY. 1 hr. I.

Includes elementary slide rule operations and computation standards. 3 lab. (PR: Entrance mathematics requirements.)

211. TECHNICAL COMPUTATIONS. 2 hrs. I.

Use of slide rule, desk calculators, analog and digital computers in engineering calculations. 6 lab. (PR: General Engineering Technology 115, Engineering Mechanics Technology 124, Mathematics 190.)

MECHANICAL ENGINEERING TECHNOLOGY (MET)

172. MACHINE DRAFTING. 2 hrs. II.

Continuation of principles of orthographic projection, basic descriptive and vector geometry. Machine parts, conventions, standards; production, shop, and working drawings; assembly drawings. 6 lab. (PR: General Engineering Technology 111.)

273. THERMODYNAMICS I. 3 hrs. I.

Work and heat, first and second laws of thermodynamics, ideal gases, power cycles. 3 lec. (PR: Engineering Mechanics Technology 124, Mathematics 190, Physics 200. CR: Engineering Mechanics Technology 225.)

274. THERMODYNAMICS II. 3 hrs. II.

Continuation of Mechanical Engineering Technology 273. Study of performance characteristics of power systems, fans, pumps, refrigeration systems, and turbines. 2 lec-3 lab. (PR: Mechanical Engineering Technology 273.)

275. MACHINE DESIGN I. 4 hrs. I.

Application of the principles of engineering mechanics to the design of machine elements. 3 lec-3 lab. (PR: Engineering Mechanics Technology 124, Mathematics 190.)

276. MACHINE DESIGN II. 3 hrs. II.

Continuation of Mechanical Engineering Technology 275, including clutches, brakes, gears, and bearings. 3 lec. (PR: Engineering Mechanics Technology 223 and Mechanical Engineering Technology 275. CR: Engineering Mechanics Technology 224.)

278. MANUFACTURING PROCESSES. 2 hrs. II.

Theory of precision measurement techniques, metal forming, cutting, welding, and processing, industrial processes of manufacturing. 2 lec. (CR: Engineering Mechanics Technology 224.)

ENGLISH (ENG)

Advanced placement in English is granted on the basis of the Educational Testing Service (ETS) Advanced Placement Test scores. 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, 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.)
- 308. CONTEMPORARY DRAMA. 3 hrs.**
British and American plays since 1945. (PR: 6 hrs. beyond English 102 or 201H or permission of Department Chairman.)
- 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. (PR: English 102 or 201H)
- 311. SCIENCE FICTION. 3 hrs.**
Study of Science Fiction as a literary type. (PR: 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.)
414. **NINETEENTH CENTURY ENGLISH NOVEL. 3 hrs.**
Austen, Scott, the Brontes, Dickens, Thackeray, Hardy and others. (PR: 6 hrs. beyond English 102 or 201H.)
415. **VICTORIAN POETRY. 3 hrs.**
Tennyson, Browning, Arnold and others. (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.**
Poe, Hawthorne, Emerson, Thoreau, and others. (PR: 6 hours beyond English 102 or 201H.)
441. **AMERICAN LITERATURE FROM 1855 TO 1925. 3 hrs.**
Whitman, Dickinson, Frost and others. (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.**
- 495II-496H. **READINGS FOR HONORS IN ENGLISH. 2-4; 2-4 hrs. I, II.**
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.

FINANCE AND BUSINESS LAW (FIN)

BUSINESS LAW

307. **PRINCIPLES OF BUSINESS LAW. 3 hrs. I, II, S.**
Survey of common law and recent legislation (UCC) relative to contracts, sales, agency and partnerships.
308. **ADVANCED BUSINESS LAW. 3 hrs. I, II, S.**
A continuation of Finance 307. Emphasizes in-depth case study of the law of commercial paper, corporations, secured transactions, real and personal property, and an introduction to government regulation of business. (PR: Finance 307.)

INSURANCE

225. **PRINCIPLES OF INSURANCE. 3 hrs. I, II, S.**
A survey course on the nature of risks in all lines of insurance and methods for meeting those risks.
327. **LIFE AND HEALTH INSURANCE. 3 hrs. I, S.**
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.
329. **PROPERTY AND LIABILITY INSURANCE. 3 hrs. I, II.**
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.
335. **SOCIAL INSURANCE. 3 hrs. II.**
Coverage and limitations of social insurance; social security; workman's compensation; unemployment insurance; medicare, medicaid; integration with private insurance.

FINANCE

201. **PERSONAL FINANCE. 3 hrs. I, II, S.**
To prepare the consumer to manage his personal financial affairs. Topics are consumerism, Federal and State Consumer protection, laws, insurance, personal banking, introduction to investments, personal taxes, and estate planning.
323. **PRINCIPLES OF BUSINESS FINANCE. 3 hrs. I, II, S.**
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.)
324. **ADVANCED FINANCIAL ANALYSIS AND PLANNING. 3 hrs. I, II, S.**
Financial planning, working capital management, capital budgeting, dividend policy and comprehensive problems. (PR: Finance 323.)
409. **CORPORATE PROCESS. 3 hrs.**
A casebook review of taxation of business enterprises, private methods of corporate controls, regulation of securities, business acquisitions, regulation of pricing, compensation plans, relations with employees (Labor Law), Local government regulation, administrative agency procedures and the business in financial difficulty.
430. **PRINCIPLES OF REAL ESTATE. 3 hrs. I, II, S.**
A broad study of the principles of real estate including, law, financing instruments, investments, leasing, brokerage, management, development and appraisal. 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 real estate.
434. **PRINCIPLES OF INVESTMENT. 3 hrs. I, II, S.**
A study of the risks and returns of investment media in relation to the primary investment objectives of the investors. (PR: Finance 323.)
435. **MONEY MARKETS AND CAPITAL FORMATION. 3 hrs. II.**
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.)
- 480-481. **SPECIAL TOPICS. 1-4 hrs.**
Finance majors only, with permission of Department Chairman.
- 495H-496II. **READINGS FOR HONORS IN FINANCE. 2-4 hrs.**
Open only to students of outstanding ability. Both must be taken to receive credit. See Honor Students.

GEOGRAPHY (GEO)

100. **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.
101. **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.
203. **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 environment.
206. **GEOGRAPHY OF WEST VIRGINIA.** 2 hrs.
Transportation, population, mining, industry, and agriculture as related to climate, soils, land forms, and other natural environmental items.
302. **GEOGRAPHY OF EUROPE.** 3 hrs.
Relationship between man's activities and natural environment studied by countries, with attention given to inter-relation of countries.
305. **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.
309. **GEOGRAPHY OF LATIN AMERICA.** 3 hrs.
Relationship between man's activities and natural relationship studied in each country.
315. **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.
317. **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.
318. **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.
320. **CONSERVATION OF NATURAL RESOURCES.** 3 hrs. I, II.
A study of the critical resources approached from the historic, geographical, and ecological viewpoints.
401. **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. **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.

GEOLOGY (GLY)

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. 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. (PR: 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. alternate years (even numbers)
A study of the internal symmetry, bonding, structure, and crystal chemistry of minerals by analytical methods. 3 lec-2 lab. (PR: Gly 314 or 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 325 or Zoology 212 and 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 EDUCATION AND RECREATION

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.)

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.

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.)

326. **CURRICULUM IN HEALTH EDUCATION. 3 hrs. I, II, S.**

A study of principles, objectives, and procedures in curriculum construction for elementary and secondary programs. Historical and philosophical perspectives. Study of existing curricular patterns.

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. **BASKETBALL AND SOCCER. 1 hr. I, II.**

Theory, rules and techniques of basketball and soccer.

114. **ARCHERY AND RIFLERY. 1 hr. I, II, S.**

Theory, rules and fundamental skills of archery and riflery.

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 cardiorespiratory conditioning. (Majors only - in lieu of general studies physical education requirement.)

116. **CONDITIONING AND WRESTLING. 1 hr. I, II.**

Teaching of conditioning activities and techniques of wrestling. (Majors only - in lieu of general studies physical education requirement.)

118. **INTRODUCTION TO PHYSICAL EDUCATION. 2 hrs. I, II, S.**

Provides an orientation to the profession emphasizing history, philosophy, preparation, competencies and opportunities.

120. **SELF-DEFENSE.** 1 hr. I, II.
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. **GYMNASTICS.** 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. **HANDBALL.** 1 hr. I, II, S.
Theory, rules, and techniques of handball.
210. **ADVANCED ARCHERY AND BOW HUNTING.** 1 hr. I, II, S.
Theory, rules and techniques of advanced archery and bow hunting.
230. **BASKETBALL AND TRACK, FIELD (WOMEN).** 2 hrs. I,
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,
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. 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. 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)
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).
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).
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).
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. I
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 102.)
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.
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, improvement, 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 PHYSICAL EDUCATION AND ATHLETES.** 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; I 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.
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.)
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.)
- 482-483-484-485. **SPECIAL TOPICS. 1-3; 1-3; 1-3; 1-3 hrs.**
Physical education majors only, with permission of department chairman.

RECREATION (REC)

190. **INTRODUCTION TO RECREATION. 3 hrs. I, II, S.**
An orientation to the profession emphasizing history, trends, concepts, and relationship to other fields.
290. **RECREATION PROGRAMMING. 3 hrs. I, II, S.**
General recreation programming for playgrounds, indoor centers, playfields, parks, hospitals, voluntary, agencies, industries and camps; emphasis on non-sport activities. (PR: Recreation 190.)
303. **OUTDOOR RECREATION. 2 hrs. I.**
Lecture and field experiences in organization, administration, and participation in outdoor activities, such as camping, hiking, exploring, and related activities.
335. **ORGANIZATION OF RECREATIONAL ACTIVITIES 2 hrs. I, II, S.**
Problems of policy and administration of intramural programs in schools and recreational programs in industry, private and public agencies; emphasis on sports activities. (PR: Recreation 190.)
391. **FIELD EXPERIENCE IN RECREATION II. 2 hrs. I, II, S.**
Supervised practicum experience in a professional setting; emphasis on administrative, supervisory, and program leadership in various laboratory situations related to recreation and/or outdoor recreation. (PR: Recreation 291, Junior standing.)
430. **CAMP ADMINISTRATION. 3 hrs. I, II, S.**
Basic concepts of campsite development, administrative organization, business management, staff training, programming for special groups, and camp appraisal. (PR: Recreation 391, Junior standing.)
475. **SEMINAR: PHILOSOPHY OF RECREATION. 4 hrs. I, II, S.**
Supervised group discussions relating to the supervised recreation experience; techniques, principles, methods and materials as each relates to planning, directing, and conducting recreational programs. (PR: Recreation 290, Recreation 391. CR: Recreation 491.)
491. **SUPERVISED PROFESSIONAL STUDENT EXPERIENCE. 8 hrs. I, II, S.**
Full-day supervised experience in recreation programs of cooperating agencies. (CR: Recreation 475, Senior standing.)

HISTORY (HST)

105. **ENGLISH HISTORY TO 1600. 3 hrs. I.**
A political and social survey of England. Emphasis is placed particularly on the development of the English Parliament.
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.
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)

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 dietaries 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.)
305. **HOME ECONOMICS EDUCATION: CLINICAL EXPERIENCE. 1 hr. I.**
Develops competence in using a cluster of presentation skills of teaching by means of micro-teaching and conferences. Use of audio-visual equipment. (PR: Educational Foundations 218. CR: Educational Foundations 319.)
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.)
307. **HOME ECONOMICS EDUCATION: CLINICAL EXPERIENCE. 1 hr. II.**
Develops competence in recording classroom verbal interaction, using questioning skills in teaching and developing teaching materials. (PR: Educational Foundations 319. CR: Home Economics 306.)
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: Chemistry 300; PR: Home Economics 210.)
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.)

HOME ECONOMICS EDUCATION

Listed under Home Economics

JOURNALISM (JRN)

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. (PR: OAD 103, or demonstrated typing proficiency.)
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 broadcasting, news room organization and operation, history and ethics of broadcast journalism. (PR: Journalism 201.)
300. **HISTORY OF AMERICAN JOURNALISM. 3 hrs. I, II.**
The development of the press in the United States, the contributions 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: Journalism 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 composition. 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. (PR: Journalism 202 or permission of instructor.)
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. (PR: Journalism 202 or permission of instructor.)
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. (PR: Journalism 201 and 241.)
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 201, 240 and 360.)
351. **BROADCAST NEWS II. 3 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 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. (PR: Sophomore standing.)
382. **ADVERTISING COPY AND LAYOUT. 3 hrs. I, II.**
Practice in obtaining material, writing copy and planning layout of advertisements in publications. (PR: Journalism 201, 240, and 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. (PR: 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 201 and 351.)
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. (PR: Journalism 382.)
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. (PR: Junior standing.)
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. (PR: Junior standing.)
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.

MANAGEMENT (MGT)

100. **MANAGEMENT. 3 hrs.**
The activities and organization of a business enterprise, the function of its personnel, and its role in the economic and social systems. Intended for students whose major is undecided or outside business.
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 experiment; 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.

MARKETING (MKT)

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. (PR: Economics 242 and Marketing 340.)

344. **RETAIL MANAGEMENT. 3 hrs.**

Management of retail establishments including successful retail merchandising, stock control, buying, pricing, marketing, advertising, promotion, displaying, credit, and selling of goods and/or services. (PR: Marketing 340, Economics 241 and 242.)

350. **PHYSICAL DISTRIBUTION. 3 hrs. I, II, S.**

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. (PR: Marketing 340, Finance 307.)

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. (PR: Marketing 340, 341, 350, 344.)

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. (PR: Marketing 340, Management 318, Accounting 216, Economics 242.)

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

100. **REMEDIAL MATHMATICS. 3 hrs. I, II, S.**

Remedial mathematics with emphasis on calculation. The graduation requirement is increased three hours for students who complete this course. The course will not satisfy the mathematics requirement in any program of study. (PR: Required for students with mathematics ACT score less than 10. Optional for students with mathematics ACT score between 9 and 15. Others must have the permission of the Chairman of the Department of Mathematics.)

- 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. (PR: Mathematics 100 or at least 10 on ACT.)
- 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. (PR: Mathematics 100 or at least 10 on ACT.)
- 120. ALGEBRA. 3 hrs. I, II.**
Review of modern algebraic concepts including sets, relations, functions. Review of the number systems through the axiomatic approach. Review of algebraic processes using exponents, radicals, logarithms. Solutions of linear equations and linear systems. Solutions of quadratic equation. Graphing linear and quadratic functions. Sequences, progressions, and the Binomial Theorem. (PR: year of high school algebra and at least 10 on ACT, or Math 100.)
- 122. PLANE TRIGONOMETRY. 3 hrs. I, II.**
Definitions of circular functions; graphs of trigonometric functions, trigonometric identities, and applications. (PR: One-half year of high school geometry. PR or CR: Mathematics 120 or at least 20 on ACT.)
- 125. FINITE MATHEMATICS. 3 hrs. I, II.**
Topics in elementary finite mathematics; sets, counting, probability and statistics, matrices and linear equations, and applications. (PR: One year of high school algebra and 10 on ACT or Math 100.)
- 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 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 1½ years of high school algebra 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.)
- 225. INTRODUCTORY STATISTICS. 3 hrs. I, II.**
Introduction to statistical analysis. (PR: Mathematics 120 or Mathematics 125 or Mathematics 130 or two years of high school algebra.)
- 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 122 and 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 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.)
- 427-428. ADVANCED CALCULUS. 4½ hrs. I, II.**
The number system, limits, sequences, partial differentiation with applications, maxima

and minima of functions of several variables. Theory of definite integrals, multiple integrals, line and surface integrals, improper integrals, infinite series. (PR: Mathematics 330 or Mathematics 337.)

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.)
- 470-471-472. **SPECIAL TOPICS IN MATHEMATICS. 1-3; 1-3; 1-3 hrs.**
Courses on special topics not listed among the current course offerings. (PR: Permission of the Chairman of the Department of Mathematics.)
- 495H-496II. **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.)

MATHEMATICS EDUCATION

Listed under Curriculum and Instruction.

MEDICAL LABORATORY TECHNOLOGY (MLT)

- 200-201. **THEORY AND TECHNIQUES OF BASIC LABORATORY IN HEMATOLOGY, URINALYSIS, BLOODBANKING, SERIOLOGY, AND CHEMISTRY. 6:4 hrs. I,II.**
180 lectures and conferences.
- 202-203. **PRACTICAL CLINICAL EXPERIENCE. 2:6 hrs. I, II.**
Rotating assignments in hematology, urinalysis, bloodbanking, seriology, microbiology, and chemistry.
204. **ANALYTICAL BIOCHEMISTRY. 6 hrs. I.**
Medical biochemistry involved in the evaluation of patient specimens. An in-depth study of the broad aspects of clinical biochemistry in normal and diseased states. 90 lecture hours.
205. **MEDICAL MICROBIOLOGY. 6 hrs. II.**
Study of pathogenic microorganisms including bacteria; rickettsia, viruses, and fungi. Study of immune responses and serologic reactions. 90 lecture hours.
206. **CLINICAL LABORATORY INSTRUMENTATION. 3 hrs. S.**
In-depth study of the various electronic apparatus and automated equipment used in the clinical laboratory to develop data in the measurement of biologic materials. 45 lecture hours.
207. **RESEARCH AND DEVELOPMENT IN CLINICAL LABORATORY PROCEDURES. 2 hrs. S.**
Preparation of individual student research papers.

MEDICAL TECHNOLOGY (MDT)

411. **URINALYSIS AND CLINICAL MICROSCOPY (4 weeks). 3 hrs. I.**
Routing urinalysis including microscopic examination. Special chemical analysis such as bile, urobilinogen, porphyrins. 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.**
Kolmer complement fixation, V.D.R.L. and F.T.A. tests for syphilis. Special tests for cold agglutinins, heterophile antibodies, febrile diseases.
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)

- 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; counterinsurgency 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

FRENCH (FRN)

- 121-122. **ELEMENTARY FRENCH. 3; 3 hrs. I, II.**
Pronunciation, conversation, reading and composition with emphasis on the oral approach. (PR for 122, French 121 or one credit of high school French or, departmental examination.)
- 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. (PR for 223: French 122 or two units of high school French or departmental examination. PR for 224: French 223 or three or four units of high school French or departmental examination.)
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 317: 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.)
- 495H-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.

GERMAN (GER)

- 101-102. **ELEMENTARY GERMAN. 3; 3 hrs. I, II.**
Grammar, pronunciation, beginning conversation, reading and comprehension. (PR for German 102: German 101 or one unit of high school German or departmental examination.)
- 203-204. **INTERMEDIATE GERMAN. 3; 3 hrs. I, II.**
Grammar, vocabulary, reading and comprehension of written and oral German. (PR for German 203: German 102 or two units of high school German or departmental examination. (PR for German 204: German 203 or three or four units of high school German or departmental examination.)
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.** 2-4; 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.

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 or departmental examination.)
- 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 or departmental examination.) (Recommended PR for 204: Spanish 203 or three or four units of high school Spanish or departmental examination.)
- 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.)
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 41 for information about Honors courses.

MUSIC (MUS)

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 (5 semester) 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.

Performance on the major instrument or voice is required at least once each semester on weekly daytime recitals held for this purpose. First semester freshmen are exempt, but may perform upon request. Seniors must give a recital as part of the requirement for graduation. Approval to plan this recital must be obtained during the jury examination preceding the recital semester.

SECONDARY PIANO:

Music majors whose area of concentration is not piano take four semesters of class piano instruction. Incoming students are given a hearing for the purpose of placement. Those students placed beyond the first semester level may obtain credit for the course(s) from which they are exempt. All music majors are required to pass a piano proficiency examination as part of the requirements for the degree. This examination is usually given at the end of the fourth semester of study and graded separately, pass or fail, apart from the semester's grade. Students may be required to repeat piano until the proficiency requirements are met.

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.

ENSEMBLES:

General Requirements:

All music majors are required to enroll in a major ensemble for seven semesters. Those who have completed this requirement and who are in residence during the spring and fall semesters are expected to continue to participate in the ensemble program.* Such students are permitted to select the ensemble of their choice provided they meet the audition requirement. Ensembles are open to all university students.

Major Ensembles

The major ensembles are: Symphonic Choir, A Cappella Choir, Orchestra, and Symphonic Band. For woodwind, brass, and percussion majors, Marching Band is required in the fall semester and Concert Band in the spring.

Secondary Ensembles:

The secondary ensembles are: Choral Union, Opera Workshop, University Singers, Jazz Ensemble, Pep Band, and Chamber Ensembles, e.g., Brass, Woodwind, Percussion, and String.

*Seniors doing student teaching are exempt from ensemble participation.

COURSES

- 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.
- 178 a,b. CLASS VOICE. 1; 1 hr. I, II.**
Classes for voice minors and electives designed for beginners.
- 179 a,b,c,d. CLASS PIANO. 1; 1 hr. I, II.**
Classes for piano minors and electives progressing from beginner to proficiency level.
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|------------------------|----------------|-------------|--------------------|
| 181a,b,c,d-381a,b,c,d. | Applied Music. | Saxophone | 1-2;1-2 hrs. 1,II. |
| 182a,b,c,d-382a,b,c,d. | Applied Music. | Flute | 1-2;1-2 hrs. 1,II. |
| 183a,b,c,d-383a,b,c,d. | Applied Music. | Oboe | 1-2;1-2 hrs. 1,II. |
| 184a,b,c,d-384a,b,c,d. | Applied Music. | Clarinet | 1-2;1-2 hrs. 1,II. |
| 185a,b,c,d-385a,b,c,d. | Applied Music. | Bassoon | 1-2;1-2 hrs. 1,II. |
| 186a,b,c,d-386a,b,c,d. | Applied Music. | French Horn | 1-2;1-2 hrs. 1,II. |
| 187a,b,c,d-387a,b,c,d. | Applied Music. | Trumpet | 1-2;1-2 hrs. 1,II. |
| 188a,b,c,d-388a,b,c,d. | Applied Music. | Trombone | 1-2;1-2 hrs. 1,II. |
| 189a,b,c,d-389a,b,c,d. | Applied Music. | Baritone | 1-2;1-2 hrs. 1,II. |
| 190a,b,c,d-390a,b,c,d. | Applied Music. | Tuba | 1-2;1-2 hrs. 1,II. |
| 191a,b,c,d-391a,b,c,d. | Applied Music. | Violin | 1-2;1-2 hrs. 1,II. |
| 192a,b,c,d-392a,b,c,d. | Applied Music. | Viola | 1-2;1-2 hrs. 1,II. |
| 193a,b,c,d-393a,b,c,d. | Applied Music. | Cello | 1-2;1-2 hrs. 1,II. |
| 194a,b,c,d-394a,b,c,d. | Applied Music. | String Bass | 1-2;1-2 hrs. 1,II. |
| 195a,b,c,d-395a,b,c,d. | Applied Music. | Piano | 1-2;1-2 hrs. 1,II. |
| 196a,b,c,d-396a,b,c,d. | Applied Music. | Voice | 1-2;1-2 hrs. 1,II. |
| 197a,b,c,d-397a,b,c,d. | Applied Music. | Organ | 1-2;1-2 hrs. 1,II. |
| 198a,b,c,d-398a,b,c,d. | Applied Music. | Percussion | 1-2;1-2 hrs. 1,II. |
- 203-403. CHORAL UNION. 1; 1 hr. I, II.**
- 204-404. A CAPPELLA CHOIR. 1; 1 hr. I, II.**
A mixed chorus open to all university students without audition. Choir gives public performances of a variety of music each semester, three rehearsals per week.
- 205-405. UNIVERSITY SINGERS. 1; 1 hr. I, II.**
A mixed vocal ensemble limited to sixteen singers which performs popular, folk, and jazz music. Several statewide tours each year. Open to all students on campus.
- 206-406. OPERA WORKSHOP. 1; 1 hr. I, II.**
Preparation and performance of opera scenes and full operas. Membership open to students as singers, pianists, and technical personnel. Roles assigned by audition. Two rehearsals per week plus private coaching.
- 207-407. SYMPHONIC CHOIR. 1; 1 hr. I, II.**
Advanced performing organization of the choral division. Membership open to advanced singers and limited by audition. Repertoire of sacred, secular, folk, and "pop" choral music performed locally and on tour. Three rehearsals per week.
- 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.
- 209-409. STRING ENSEMBLE. 1; 1 hr. I, II.**
- 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. SYMPHONIC BAND. 1; 1 hr. II.**
- 266-466. MARCHING BAND. 1; 1 hr. I.**
- 267-467. JAZZ ENSEMBLE. 1; 1 hr. I, II.**

- 268-468. **PEP BAND.** 1 hr. II.
- 269-469. **WOODWIND ENSEMBLE.** I; 1 hr. I, II.
- 270-470. **PERCUSSION ENSEMBLE.** I; 1 hr. I, II.
- 271-471. **BRASS ENSEMBLE.** I; 1 hr. I, II.
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.** I; 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. I.
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.
338. **MUSIC EDUCATION: MATERIALS AND METHODS IN SCHOOL
MUSIC (GRADES K-6).** 3 hrs. II.
Intensive study of vocal and instrumental materials and methods of presentation of music K-6.
340. **MUSIC EDUCATION: MATERIALS AND METHODS IN SCHOOL
MUSIC (GRADES 7-12).** 3 hrs. II.
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. I.
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.

MUSIC EDUCATION

Listed under Music

NURSING (NUR)

101. **NURSING I.** 5 hrs.
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.)

- I 02. NURSING II. 5 hrs.**
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.**
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.**
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.**
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.**
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.**
This course applies the nursing process in caring for children with problems unique to childhood and adolescence.
It includes a study of growth and development and is designed to assist the student to develop knowledge, skills and attitudes which will enable him/her to provide safe, competent family-centered nursing care to children as a beginning practitioner. (PR: Nursing 102.)

OFFICE ADMINISTRATION (OAD)

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.
- 495H-496H. **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)

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 other 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.)
465. **EXISTENTIALIST PHILOSOPHY. 3 hrs.**
A comparative study of the influence and emphases of outstanding existentialist philosophers from Kierkegaard to Sartre 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.
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

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 or the equivalent high school mathematics.)
- 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 high school trigonometry 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 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 high school mathematics.)
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.)

POLITICAL SCIENCE (PSC)

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. **INTRODUCTION TO 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.)
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.
411. **LATIN AMERICAN POLITICS. 3 hrs.**
Study of selected Latin American nations in the contemporary setting.
415. **INTERNATIONAL LAW. 3 hrs.**
Study of theories, origins, sources, development, present state, and trends of international law as a factor in various aspects of international politics. (PR: Political Science 309.)
422. **AFRICAN POLITICAL SYSTEMS. 3 hrs.**
The study of political systems of selected countries, blocs or regions.
423. **AMERICAN FOREIGN POLICY. 3 hrs.**
The study of descriptive, analytical, and normative aspects of the United States with emphasis on contemporary problems and issues.
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.
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.
427. **CONTEMPORARY IDEOLOGIES. 3 hrs.**
A critical analysis of political theory in the 19th and 20th centuries such as liberalism, conservatism, socialism, Marxism, communism, fascism, and Maoism.
429. **THE POLITICS OF CONFLICT AND REVOLUTION. 3 hrs.**
Study of major theories of conflict and revolution, and analysis of conflict-inducing and conflict-inhibiting factors related to system maintenance, with emphasis on the relevance of the literature in this area to the black community.
430. **AMERICAN POLITICAL IDEAS. 3 hrs.**
Political ideas of representative American thinkers.
433. **PUBLIC ADMINISTRATION AND POLICY DEVELOPMENT. 3 hrs.**

Study of economic, sociological, psychological, and political factors in the shaping of public policy and planning, with stress on interrelationships between politics, administration, and planning. (PR: Political Science 201 or 202.)

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.
450. **ADMINISTRATIVE LAW. 3 hrs.**
A study of the basic legal framework of administration organization, including the problems of administrative discretion, rule-making and adjudication, regulatory agencies, and administrative responsibility in the democratic state.
452. **PUBLIC PERSONNEL ADMINISTRATION. 3 hrs.**
Survey of Public Personnel Administration with particular attention on various facets of the merit system concept. Psychological and human relations aspects of the work situation and supervisor-subordinate interaction emphasized.
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.
470. **THE POLITICS OF TRANSITIONAL SOCIETIES. 3 hrs.**
Study of major concepts, institutions, and processes in political modernization, with comparative illustrations from various developing nations.
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.)
- 495H-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)

201. **GENERAL PSYCHOLOGY. 3 hrs.**
The principles and methods in the scientific study of behavior.
204. **PSYCHOLOGY OF ADJUSTMENT. 3 hrs.**
Modes of personal and social adjustment; assessment and treatment techniques. (PR: Psychology 201.)
223. **FUNDAMENTALS OF PSYCHOLOGICAL RESEARCH. 3 hrs.**
Orientation to the philosophy of science; survey of methods in behavior study; elementary statistics. (PR: Psychology 201 and Math 125.)
302. **SOCIAL PSYCHOLOGY. 3 hrs.**
Psychological interrelationships in group behavior. (PR: Psychology 201.)
311. **DEVELOPMENTAL PSYCHOLOGY: INFANCY TO OLD AGE. 3 hrs.**
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.**
Methodology and research in learning and motivation. 2 lec-2 lab. (PR: Psychology 223.)
324. **EXPERIMENTAL PSYCHOLOGY OF SENSATION AND PERCEPTION. 3 hrs.**
Methodology and research in sensory and perceptual processes. 2 lec-2 lab. (PR: Psychology 223.)
340. **PHYSIOLOGICAL PSYCHOLOGY. 3 hrs.**
The relationships between physiological functions and biochemical processes and behavior. (PR: Psychology 201.)
350. **COMPARATIVE PSYCHOLOGY. 3 hrs.**
Evolutionary, ecological, biological and psychological principles underlying the behavior of animals including man. (PR: Psychology 323 and 340 or consent of instructor.)
360. **PERSONALITY. 3 hrs.**
Review of classical and contemporary theories of personality. (PR: Nine hours credit in Psychology.)
402. **ADVANCED SOCIAL PSYCHOLOGY. 3 hrs.**
Advanced study of selected topics in social psychology. (PR: Psychology 223, Psychology 302 or consent of instructor.)
406. **PSYCHOMETRICS. 3 hrs.**
Mental test theory and applications. (PR: Psychology 223.)

408. **PSYCHOLOGY OF ABNORMAL BEHAVIOR. 3 hrs.**
A bio-social approach to the nature, conditions and modification of ineffective human behavior. (PR: Psychology 311.)
416. **PSYCHOLOGY OF LEARNING. 3 hrs.**
Critical study of the major theories of learning and the related research. (PR: Twelve hours of psychology including Psychology 323.)
417. **QUANTITATIVE METHODS IN PSYCHOLOGY. 3 hrs.**
An intermediate level presentation of descriptive and inferential statistics as applied in behavioral research. 2 lec-2 lab. (PR: Psychology 201 and 223.)
418. **PSYCHOLOGY OF PERSONNEL. 3 hrs.**
Psychological principles and methods applied to functions in personnel administration. (PR: Psychology 201.)
460. **HISTORY AND SYSTEMS OF PSYCHOLOGY. 3 hrs.**
(PR: Twelve hours of psychology.)
- 491-492-493-494. **SPECIAL PROBLEMS. 1-3; 1-3; 1-3; 1-3 hrs.**
By permission of instructor and 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 transportation 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 with 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.)

SCIENCE EDUCATION

Listed under Curriculum and Instruction

SOCIAL STUDIES (SOS)

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.
- 495H-496H. **READINGS FOR HONORS IN SOCIAL STUDIES.**
2-4; 2-4 or not less than 6 hrs. total credit.
See Honors Courses.

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. (PR: Soc. 200)
206. **CRIMINOLOGY.** 3 hrs. (Formerly Soc. 320.)
Introduction to the social aspects of criminal behavior. (PR: Soc. 200 (Same as CJ 206.)
207. **JUVENILE DELINQUENCY.** 3 hrs. (Formerly Soc. 435.)
Theories of delinquency causation and prevention; organization and functions of social agencies operating in the field. (PR: Soc. 200 (Same as C.J. 207).)
300. **SOCIAL ORGANIZATION (Formerly Principles of Sociology)** 3 hrs.
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. **DEVIAN'T BEHAVIOR.** 3 hrs.
Study of the basic concepts and theories of deviant social behavior and the correlative social disorganization. (PR: Sociology 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.)
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 or 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.)
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. (PR: Sociology 316, 317, 318, 319.)

- 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. (PR: Sociology 316, 317, 318, 319.)
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.)
- 495H-496H. **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.

SPEECH (SPH)

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;1hr. I, II.**
(PR: Permission of instructor.)
- 227-228. **ACTING OR DIRECTING IN UNIVERSITY THEATRE PRODUCTIONS. 1 hr. each.**
Acting, directing, or technical work in Marshall University Theatre production. Register only with permission of instructor.
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, 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.**
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 102 or 202.
306. **ADVANCED PUBLIC SPEAKING. 3 hrs. I, II.**
Advanced forms and practice of exposition and persuasion. (PR: Speech 103, 202 or 305.)
307. **ORAL COMMUNICATION IN SOCIAL CRISES. 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; 2 hrs. I, II.**
Elementary scene design, construction painting, lighting, make-up, work coordinated with University Theatre production. Both courses must be taken concurrently.
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. I; 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.**
Acting, directing, or technical work in Marshall University Theatre productions. Register only with permission of instructor.
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.**
Introduction to theories, principles, techniques, and history of play production. (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. (PR: Speech 210.)
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. **COMMUNICATIONS 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 broadcasting 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. 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 aesthetic and technical principles of staging are applied to the educational theatre. Specific attention is given to the generation of a design from the play manuscript. (PR: Speech 312 and 313.)
448. **ADVANCED TECHNICAL THEATRE.** 3 hrs.
Advanced work in problems of technical production. (PR: Speech 312-313.)
450. **DIRECTION OF SPEECH ACTIVITIES.** 3 hrs. II.
Direction of extra-curricular speech activities—assemblies, forensic events, etc. (PR: 15 hrs. 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.

(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.

UNIVERSITY HONORS (UH)

Good students have always been frustrated by the fragmentation of knowledge into departmental and disciplinary segments. The program in Interdisciplinary Honors is designed to provide promising and highly motivated students an exciting pursuit of a given topic following wherever it takes us without regard for disciplinary fences.

In addition to the Interdisciplinary Honors seminars the Honors Program at Marshall University provides the opportunity for qualified students to develop individual programs of study and research usually within the students major department.

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.

195II-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)

400. PHILOSOPHY OF VOCATIONAL EDUCATION. 3 hrs. I, II, S.

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. I, S.

Study of procedures for analyzing an occupation to identify essential knowledge and skills; use of the analysis to 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. S.

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. CORRDINATION 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. **SPECIAL TOPICS. 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

ACCOUNTING

Associate Professor: Thomas G. England, Ed.D.; Kyle G. McMullen, M.B.A.; Charles D. Webb, M.B.A. (chmn.)
Assistant Professor: Neal G. Adkins, M.A.; Dorothy S. Hope, M.S.; Roland L. Madison, M.S.; William J. Radig, M.B.A.
Instructor: Roger B. Hamood, M.B.A.

ART

Associate Professor: June Q. Kilgore, M.F.A. (Chmn.)
Assistant Professor: Frederick K. Burkett, M.A.; Michael I. Cornfeld, M.F.A.; Carol R. Demiray, M.F.A.; John E. Dolin, M.A.Ed.; Alice Ertresvaag, M.Ed.; Robert P. Hutton, M.F.A.
Instructor: Earline S. Allen, M.A.; Beverly H. Twitchell, M.A.

BIBLE AND RELIGION

Professor: Louis B. Jennings, Ph.D. (chmn.)
Associate Professor: John B. Goodwin, Ph.D.
Assistant Professor: Clayton L. McNearney, Ph.D.

BIOLOGICAL SCIENCES

Professor: Dorothy A. Fisher, Ph.D.; Howard L. Mills, Ph.D.; Donald C. Tarter, Ph.D.; Harold E. Ward, Ph.D. (chmn.); John R. Warren, Ph.D.
Associate Professor: Stanley W. Ash, M.A.
Assistant Professor: Franklin L. Binder, Ph.D.; Margaret A. Bird, Ph.D.; James O. Brumfield, M.S.; Dan K. Evans, M.S.; W. Gene Frum, M.S.; Ronald E. Gain, Ph.D.; James E. Joy, Ph.D.; E. Bowie Kahle, Ph.D.; Philip E. Modlin, M.A.; Michael E. Seidel, Ph.D.; Ralph W. Taylor, Ph.D.; Thomas E. Weaks, Ph.D.
Instructor: Dean A. Adkins, M.S.; Dorothy S. Daugherty, M.S.; Michael L. Little, M.S.; Harry A. Raczok, M.S.

CHEMISTRY

Professor: Manoj R. Chakrabarty, Ph.D.; James E. Douglass, Ph.D.; Edward S. Hanrahan, Ph.D. (chmn.); John H. Hoback, Ph.D.; Arthur R. Lepley, Ph.D.; Joseph L. Roberts, Ph.D.
Associate Professor: Chang L. Kong, Ph.D.; John W. Larson, Ph.D.
Assistant Professor: Daniel P. Babb, Ph.D.; Howard C. Price, Ph.D.

CLASSICAL STUDIES

Professor: Louise P. Hoy, Ph.D. (chmn.)
Instructor: Charles O. Lloyd, II., M.A.

COUNSELING AND REHABILITATION

Professor: Clarke F. Hess, Ed.D.; William A. Wallace, Ed.D.
Associate Professor: Robert L. Dingman, Ed.D.
Assistant Professor: Lawrence W. Barker, Ed.D. (chmn.); William A. McDowell, Ph.D.; Steven A. Meadows, M.A.

CURRICULUM AND FOUNDATIONS

Professor: Homer Arhelger, Ed.D.; James E. Irvin, Ph.D.; Offa Lou Jenkins, Ed.D.; Joseph Khatena, Ph.D.; Joseph M. Lichtenstein, M.A.; Bernard Queen, Ph.D. (dean); Walter E. Regula, Ph.D.; Harold L. Willey, Ed.D.
Associate Professor: Darryl D. Bauer, Jr., Ed.D.; Margaret C. Campbell, Ed.D.; Paul H. Collins, M.A. (Vice pres.); Danny G. Fulks, Ed.D.; Roscoe Hale, Jr., Ph.D.; Jack Jervis, Jr., Ed.D.; David E. Koontz, Ph.D.; Edward G. Necco, Ed.D.; Katherine W. Simpkins, Ph.D.; Taylor E. Turner, Jr., Ed.D.; Ruth T. Wellman, Ph.D.; Tony L. Williams, Ed.D.
Assistant Professor: Nellie S. Dailey, M.A.; William S. Deel, Ed.D. (assoc. dean); Boots Dille, M.A.; Ralph H. Hall, M.A.; James W. Harless, M.A. (dir. admissions); Nancy W. Hanger, M.A.; Peggy P. Jarrett, M.A.; Harold E. Lewis, Jr., Ed.D.; Corey R. Lock, Ph.D.; Dan E. Morris, M.Ed.; Jack E. Nichols, M.A.; Sallie H. Plymale, M.A.; Herbert H. Royer, M.A.; Martha B. Rummell, M.Ed.; John E. Smith, Ed.D.; Harry E. Sowards, M.A.; Margaret D. Vass, M.A.; Mary E. Wolfe, M.A.; Kathryn W. Wright, M.A.

ECONOMICS

Professor: Joseph S. LaCascia, Ph.D. (chmn.)
Associate Professor: Ramchandra G. Akkihal, Ph.D.; William G. Cook, B.A.; George B. Corrie, M.A.
Assistant Professor: Nicholas Kontos, M.A.; Chandra P. Pathak, Ph.D.

EDUCATIONAL ADMINISTRATION

Professor: Neil L. Gibbins, Ph.D. (chmn.); Robert B. Hayes, Ed.D. (pres.); Zane McCoy, Ph.D.; Charles C. Ritchie, Jr., Ed.D.
Associate Professor: Bill K. Gordon, Ed.D.

EDUCATIONAL MEDIA

Associate Professor: Walter C. Felty, Ph.D. (chmn.); Anna V. Theis, M.A.
Assistant Professor: Virginia D. Plumley, M.A.; Eleanor H. Terry, M.S.L.S.

ENGINEERING

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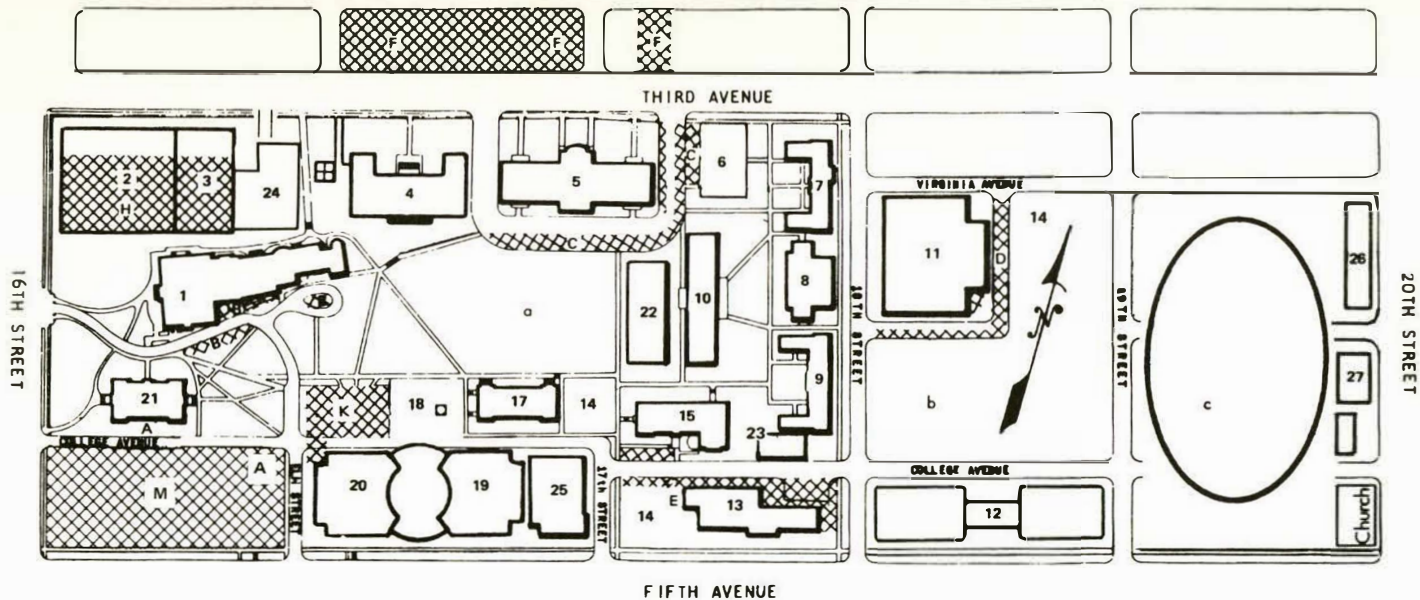
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FIFTH AVENUE

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| 1. Old Main | 10. Prichard Hall | 20. Bookstore |
| 2. Evelyn Hollberg Smith Music Hall | 11. Otto Gullickson Hall | 21. Northcott Hall |
| 3. Stewart Harold Smith Hall | 12. Twin Towers Residence Hall | 22. West Hall |
| 4. Marshall University Library | 13. South Hall | 23. Nursery |
| 5. Science Building | 14. Tennis Courts | 24. Communications Building |
| 6. Academic Building A | 15. Albert Gallatin Jenkins Building | 25. Campus Christian Center |
| 7. Laidley Hall | 17. Women's Physical Education Building | 26. Maintenance |
| 8. University Dining Hall | 18. Memorial Fountain | 27. Engineering Building (Temporary) |
| 9. Hodges Hall | 19. Memorial Student Center | |

Parking Areas

A
B
C
D
E
F
H
K
M

- a - Intramural Field
b - Athletic Field
c - Track Field