

Marshall University

Marshall Digital Scholar


Marshall University Catalogs 1970-1979

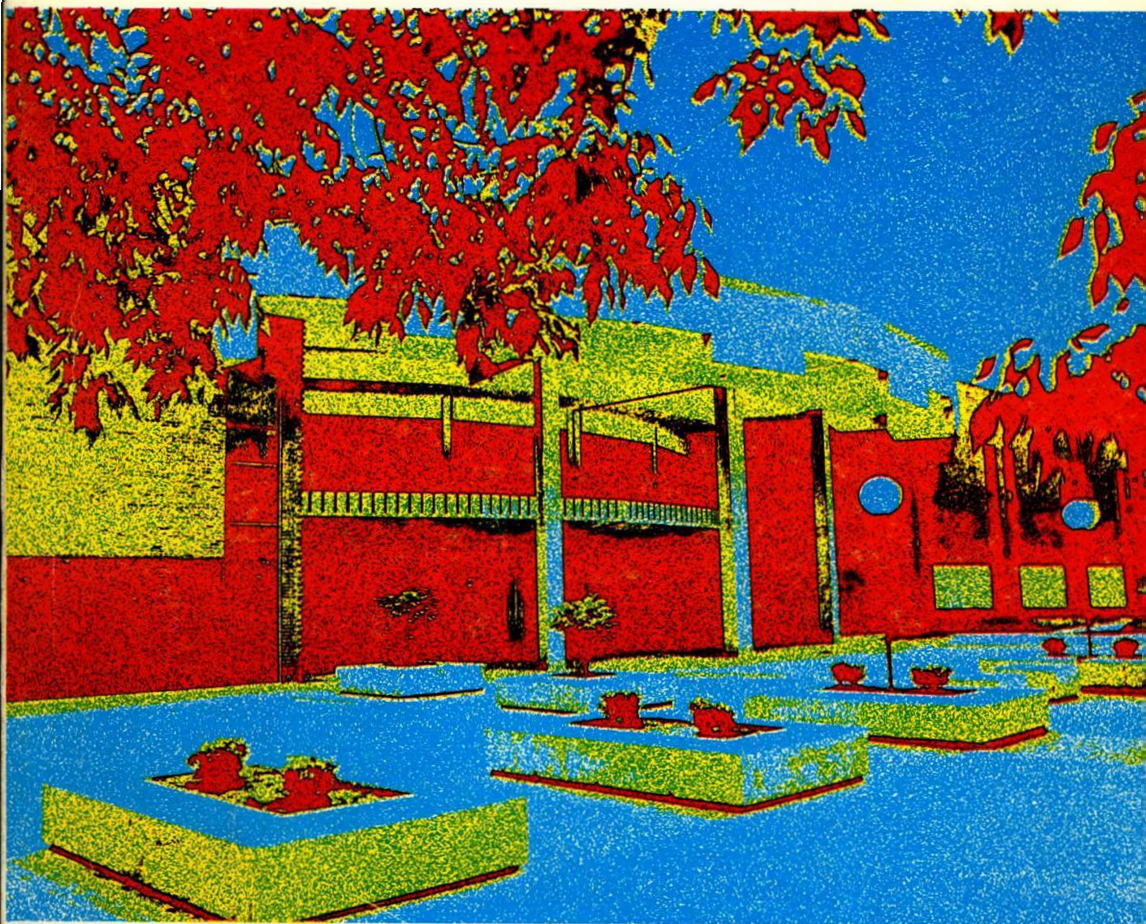
3-1971

General Undergraduate Catalog, 1971-1972

Marshall University

Follow this and additional works at: https://mds.marshall.edu/catalog_1970-1979

 Part of the [Higher Education Commons](#), [Higher Education Administration Commons](#), and the [Other History Commons](#)

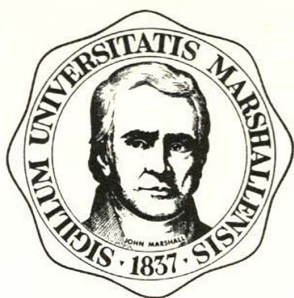


MARSHALL UNIVERSITY

Undergraduate Catalog

1971-72





MARSHALL UNIVERSITY

GENERAL UNDERGRADUATE CATALOG

1971 - 1972

HUNTINGTON, WEST VIRGINIA

25701

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

Continuing Education

Director of Continuing Education

Employment, Placement

Director of Career Planning and Placement

Graduate Study

Dean of the Graduate School

Student Affairs

Vice President for Student Affairs

Student Housing

Assistant Dean of Students for Housing

Scholarships and Loans

Director of Student Financial Assistance

Transcripts, Records

Office of the Registrar

Veterans' Affairs

Veterans' Adviser

Volume 11

Number 1

March, 1971

**Published annually by
Marshall University
Huntington, West Virginia 25701**

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

Table of Contents

	Page
Correspondence Directory	2
Calendar, 1971-72	4
West Virginia Board of Regents	5
Marshall University Advisory Board	5
Officers of Administration	5
The Faculty	6
General Information	37
Admission	45
Academic Information	51
Fees and Expenses	62
Division of Continuing Education	75
Student Life	77
Student Financial Aid	85
Teachers College	89
College of Arts and Sciences	130
College of Applied Science	162
School of Business	177
Multi-Departmental Offerings	186
Courses of Instruction	187
Index	299

Calendar

1971-72

FIRST SEMESTER

August 23, Monday	Freshmen Orientation
August 24, Tuesday	General Registration
August 24, Tuesday Evening	Evening Registration
August 25, Wednesday	New Students Register and General Registration
August 26, Thursday	Class Work Begins
August 27, Friday	Late Registration
August 30, Monday	Late Registration Closes at 8:00 p.m.
September 6, Monday	Labor Day Holiday
October 19, Tuesday	Mid-Semester
October 20, Wednesday	Mid-Semester Reports Due
October 30	Homecoming
November 24, Wednesday - Noon	Thanksgiving Recess Begins
November 29, Monday - 8:00 a.m.	Class Work Resumes
December 3	Last Day to Withdraw With Grade of W
December 10	Last Day of Classes
December 11-12-13-14	Study Days
December 15 - 18	Final Examinations
December 21, Tuesday	Final Grades Due

SECOND SEMESTER

January 10, Monday	Freshmen Orientation
January 11, Tuesday	General Registration
January 11, Tuesday Evening	Evening Registration
January 12, Wednesday	New Students Register and General Registration
January 13, Thursday	Class Work Begins
January 14, Friday	Late Registration
January 17, Monday	Late Registration Closes at 8:00 p.m.
March 3, Friday	Mid-Semester
March 6 - 11	Spring Vacation
March 31	Good Friday Holiday
April 28, Friday	Last Day to Withdraw With Grade of W
May 5	Last Day of Classes
May 6-7-8-9	Study Days
May 10-13	Final Examinations
May 14	Commencement
May 16	Final Grades Due

WEST VIRGINIA BOARD OF REGENTS

Dr. Prince B. Woodard	Chancellor
Mr. Earle T. Andrews	President
Mr. Amos A. Bolen	Vice President
Mr. John E. Amos	Secretary
Dr. Forrest L. Blair	Member
Mr. David B. Dalzell	Member
Mr. Edward H. Greene	Member
Mrs. Elizabeth Harden Gilmore	Member
Mr. Albert M. Morgan	Member
The Honorable Okey L. Patteson	Member

MARSHALL UNIVERSITY ADVISORY BOARD

Mr. Orin E. Atkins	Chairman
Mr. William C. Campbell	Vice Chairman
Mr. Charles Lanham	Secretary
Dr. Charles A. Hoffman	Member
Judge Dennis R. Knapp	Member
Mr. Leonard H. Samworth	Member
Mr. William L. Williams, Jr.	Member

MARSHALL UNIVERSITY OFFICERS OF ADMINISTRATION

President	John G. Barker, B.S., M.S., Ph.D.
President Emeritus	Stewart Harold Smith, B.S., M.A., Ph.D., Litt.D., LL.D., L.H.D., L.H.D.
Assistant to the President	Donald K. Carlson, B.A., Ph.D.
Vice President for Academic Affairs	Donald N. Dedmon, B.S., M.A., Ph.D.
Dean of College of Arts and Sciences	George J. Harbold, B.A., M.A., Ph.D.
Assistant Dean	
Dean of Teachers College	Robert B. Hayes, A.B., Ed.M., Ed.D.
Assistant Dean	William S. Deel, B.A., M.S., Ed.D.
Dean of College of Applied Science	
Dean of School of Business	R. W. Morell, M.B.A., Ph.B., Ph.D.
Assistant Dean	Thomas Bishop, B.S., M.A., Ph.D.
Dean of Graduate School	John R. Warren, A.B., M.A., Ph.D.
Director of Institutional Self Study	A. Mervin Tyson, A.B., M.A., Ph.D.
Director of Continuing Education	Paul Collins, A.B., M.A.
Registrar	Robert H. Eddins, B.S., M.S.
Librarian	Harold W. Apel, A.B., M.S., in Library Science
General Manager of WMUL-TV	Terry M. Hollinger, Met. Engr., M.A.
Director of Computer Center	Karl C. Thomas, B.A.
Vice President for Business Affairs	Joseph C. Peters, B.S., M.B.A.
Division Director	Richard D. Vass, B.B.A.
Director of Plant Operations	Joseph S. Soto, A.B., B.S., M.A.
Director of Personnel	
Director of Purchasing	Robert G. Bradley, B.S.
Vice President for Student Affairs	
Dean of Students (Acting)	Frank H. Julian, A.B., J.D.
Assistant Dean of Students	
for Special Programs	Mary Louise Gallagher, A.B., M.Ed.
Assistant Dean of Students for Housing	Warren S. Myers, A.B., M.A.
Assistant Dean of Students	
for Activities and Organizations	Jeffrey G. Nemens, B.A., M.A.
Director of Admissions	James W. Harless, B.S. Ed., M.A.
Director of Student Financial Aid	Richard G. Mund, B.A., M.A., Ph.D.
Director of Counseling Center	
Director of Special Services	Ted R. Morford, A.B., M.A.
Director of Student Health Center	Ralph P. Hall, B.A., B.S., M.D.
Director of Development	John S. Callebs, A.B., M.A.
Director of Alumni Affairs	Howard B. St. Clair, B.S. in Military Science
Director of Career Planning and Placement	Reginald A. Spencer, B.B.A.
Director of Information and Publications	James A. Martin, A.B.
Director of Athletics	Joseph H. McMullen, Sc.B., A.B., M.A.

The Faculty

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

ABBAS, JABIR A., Associate Professor of Political Science, 1962
Ph.D. 1971, Indiana University

ABBOTT, REVONDA A., Instructor in Physical Education, 1970
M.S. 1970, Florida State University

ADKINS, HOWARD G., Assistant Professor of Geography, 1970
M.Ed. 1963, University of Southern Mississippi; graduate study, University
of Tennessee

ADKINS, JOAN F., Assistant Professor of English, 1963
M.A. 1961, Marshall University; graduate study, University of Minnesota,
West Virginia University, Marshall University, University of Utah

ADKINS, NEAL G., Instructor in Accounting, 1969
M.A. 1968, Marshall University; graduate study, Marshall University

ADKINS, RICHARD L., Assistant Professor of Engineering, 1966
M.Sc. 1964, Ohio State University; graduate study, Ohio State University

AKKIHAL, RAMCHANDRA G., Associate Professor of Economics, 1968
Ph.D. 1969, University of Tennessee

ALDRED, FRANCIS K., Associate Professor of History, 1967
Ph.D. 1967, University of Virginia

ALEXANDER, ROBERT P., Associate Professor of Management, 1958
Ph.D. 1969, Ohio University

ALLEN, EARLINE S., Instructor in Art, 1970
M.A. 1966, Marshall University; graduate study, Marshall University, Ohio
University

ALMALEL, CORAZON, Associate Professor of Modern Languages (Spanish),
1970
Ph.D. 1962, University of Madrid

ALSIP, JONATHAN E., Assistant Professor of Psychology, 1970
Ph.D. 1969, Iowa State University

- ANDERSON, SARA E., Professor of Office Administration, 1966
Ed.D. 1964, Indiana University
- ARAZA, LEONARD W., JR., Instructor in Sociology, 1970
M.A. 1970, Marshall University
- ARHELGER, HOMER, Professor of Education, 1961
Ed.D. 1962, Indiana University
- ARNOLD, GEORGE T., JR., Assistant Professor of Journalism, 1968
M.A. 1965, Marshall University; graduate study, Marshall University, Ohio
University
- ASH, STANLEY W., Associate Professor of Biological Sciences, 1956
M.A. 1954, Marshall University; graduate study, University of
Pennsylvania, Florida State University
- ASHER, MARY S., R.N., Assistant Professor of Nursing, 1967
M.N. 1945, Case Western Reserve University; M.A. 1968, Marshall
University
- ASHFORD, WILLIAM F., Professor of Marketing, 1970
Ph.D. 1969, Ohio University
- BAILEY, ALAN, Assistant Professor of Geology, 1971
Ph.D. 1970, Michigan State University
- BAILEY, LOUISE S., Assistant Professor of English, 1961
M.A. 1953, University of Florida; graduate study, University of Tennessee,
University of Florida
- BALSHAW, PAUL A., Associate Professor of Music, 1965
D.Mus.A. 1963, Eastman School of Music
- BARBOUR, RICHARD L., Associate Professor of Music, 1969
Ph.D. 1968, University of Oregon
- BARKER, LAWRENCE W., Assistant Professor of Education, 1970
Ed.D. 1968, West Virginia University
- BARTLETT, JAMES D., Instructor in English, Williamson Branch, 1968
M.A. 1968, Marshall University

- BAUER, DARYLL D., JR., Associate Professor of Education, 1970
Ed.D. 1970, University of Virginia
- BAUSERMAN, THOMAS S., Professor of Mathematics, 1955
Ph.D. 1961, University of Pittsburgh
- BAXTER, CURTIS F., Professor of English, 1936
M.A. 1936, Washington and Jefferson College; graduate study, New York University, Cambridge University, Columbia University
- BEASLEY, R. MICHAEL, Instructor in English, 1969
M.A. 1968, San Francisco State College
- BENNETT, GRACE, Professor of Home Economics, 1965
Ph.D. 1957, Purdue University
- BERTRAM, ORIANA R., R.N., Instructor in Nursing, 1967
B.S.N. 1949, University of Chile
- BIAS, CHARLES V., Assistant Professor of History, 1967
M.A. 1967, Marshall University; graduate study, West Virginia University
- BIRD, MARGARET A., Assistant Professor of Biological Sciences (Zoology), 1970
Ph.D. 1970, North Carolina State University
- BISATO, GIOVANNA L., R.N., Assistant Professor of Nursing, 1968
M.S.N. 1960, Catholic University of America; graduate study, University of Dayton
- BISHOP, THOMAS S., Associate Professor of Management, 1969
Ph.D. 1969, University of Iowa
- BLANKENSHIP, MARTHA D., Associate Professor of Home Economics, 1961
Ph.D. 1970, Pennsylvania State University
- BLEAU, EDWARD R., Instructor in Economics, 1970
M.A. 1970, University of Illinois
- BONNETT, RICHARD B., Assistant Professor of Geology, 1968
Ph.D. 1970, Ohio State University
- BOOTH, RICHARD M., Instructor in Geography, 1969
M.S. 1969, Marshall University
- BRITTON, ROBERT L., Professor of Geography, 1930
M.S. 1930, University of Chicago; graduate study, University of Chicago, Ohio State University, Marshall University

- BROMLEY, NORMAN P., Assistant Professor of Finance, 1969
J.D. 1962, West Virginia University
- BROWN, JACK R., Professor of English, 1948
Ph.D. 1937, Northwestern University
- BROWN, MAHLON C., Professor of Social Studies, 1955
D.S.S. 1959, Syracuse University
- BRUMFIELD, JAMES O., Assistant Professor of Biological Sciences (Botany),
1964
M.S. 1964, Marshall University; graduate study, West Virginia University,
Marshall University
- BUELL, STEPHEN D., Director of Educational Radio and TV, and Professor of
Speech, 1955
Ph.D. 1962, Ohio State University
- BURCHETT, RICHARD L. Instructor in Social Studies, 1969
M.S. 1969, Chadron State College; M.A. 1969, University of Cincinnati
- CALLEBS, JOHN S., Director of Development and Associate Professor of Social
Studies, 1965
M.A. 1958, West Virginia University; graduate study, University of
Pittsburgh
- CAMPBELL, MARGARET C., Associate Professor of Education, 1956
M.A. 1956, George Peabody College for Teachers; graduate study, George
Peabody College for Teachers, Marshall University
- CANTEES, ROBERT T., Assistant Professor of Mathematics, Williamson
Branch, 1965
M.A. 1961, Marshall University; graduate study, Marshall University
- CARPENTER, ARTHUR S., Professor of Art, 1951
Ed.D. 1958, Pennsylvania State University
- CARPENTER, RANDALL P., JR., Instructor in Science, Logan Branch, 1968
M.S. 1968, Marshall University
- CARR, EMORY W., Instructor in Modern Languages (German), 1966
M.A. 1965, West Virginia University; graduate study, University of North
Carolina, University of Massachusetts
- CARR, JOAN N., Instructor in Art, Logan and Williamson Branches, 1970
M.A. 1970, Marshall University

- CARSON, DONALD K., Assistant to the President and Assistant Professor of Political Science, 1969
Ph.D. 1969, University of Kentucky
- CERVERIS, MICHAEL E., Associate Professor of Music, 1969
D.M.A. 1968, West Virginia University
- CHAKRABARTY, MANOJ R., Professor of Chemistry, 1963
Ph.D. 1962, University of Toronto
- CHAPMAN, ELMA S., Instructor in Office Administration, 1956
M.A. 1956, Marshall University
- CHAPMAN, SARA S., Assistant Professor of English, 1967
Ph.D. 1970, Ohio University
- CHEN, CHI HSIN, Assistant Professor of Engineering, 1967
Ph.D. 1968, Virginia Polytechnic Institute
- CHEZIK, DONALD D., Assistant Professor of Psychology, 1970
Ph.D. 1971, Indiana University
- CHILDERS, MARTHA G., Instructor in Home Economics, 1970
M.A. 1970, Marshall University; graduate study, University of Tennessee
- CHOI, SOO BOCK, Professor of Political Science, 1963
Ph.D. 1963, University of Maryland
- CHRIETZBERG, AGNES L., Associate Professor of Physical Education, 1969
Ph.D. 1969, Florida State University
- CLAGG, SAM E., Professor of Geography, 1948
Ed.D. 1955, University of Kentucky
- CLARK, MARY D., Instructor in Education, 1961
M.A. 1960, Marshall University; graduate study, Marshall University
- CLARK, ROBERT R., Associate Professor of Music, 1967
M.A. 1959, Ohio State University; graduate study, University of Michigan
- CLEVELAND, BERNARD F., Associate Professor of Social Studies, 1964
M.S. 1962, State University of New York, Oneonta; graduate study, Colorado State College
- CLICK, ROBERT W., Assistant Professor of English, 1966
M.A. 1964, Memphis State University; graduate study, Ohio University, Marshall University, Morehead State University

- COFFEY, WILLIAM E., Associate Professor of Social Studies, 1969
Ph.D. 1970, West Virginia University
- COLE, ERNEST W., Associate Professor of Finance, 1955
M.A. 1953, Marshall University; graduate study, University of Pennsylvania
- COLLINS, PAUL H., Director of Continuing Education and Associate Professor of Education, 1949
M.A. 1943, West Virginia University; graduate study, Harvard University, University of Virginia
- COMFORT, RICHARD O., Professor of Sociology, 1971
Ph.D. 1946, George Peabody College
- COMPTON, HITE W., Assistant Professor of Speech, 1967
M.A. 1966, West Virginia University; graduate study, West Virginia University, Marshall University
- CONNELL, MARY U., Instructor in Biological Sciences, 1968
M.S. 1966, Marshall University; graduate study, Marshall University, Kent State University
- CONTOPOULOS, NICHOLAS C., Assistant Professor of Economics, 1965
M.A. 1958, Indiana University; graduate study, University of Michigan, University of Colorado
- COOK, JACK W., Assistant Professor of Physical Education, 1966
M.A. 1953, Marshall University; graduate study, Marshall University
- COOK, WILLIAM G., Associate Professor of Economics, 1959
B.A. 1947, University of Wisconsin; graduate study, University of Wisconsin
- CORNFELD, MICHAEL I., Assistant Professor of Art, 1967
M.F.A. 1967, Carnegie Institute of Technology
- CORRIE, GEORGE B., Associate Professor of Economics, 1947
M.A. 1941, University of North Carolina; graduate study, University of North Carolina
- CORTES, BEVERLY, Associate Professor of Speech, 1969
Ed.D. 1969, West Virginia University
- CORUM, JACQUELINE C., Assistant Professor of Modern Languages (French), 1965
M.A. 1963, Marshall University; graduate study, University of Kentucky, Ohio State University, New York University

- COX, CHARLES W., Assistant Professor of Social Studies, 1969
M.S. 1964, Indiana State University; graduate study, Ball State University
- CRAIGO, MARY J., Instructor in Modern Languages, (Spanish), 1970
M.A. 1968, Marshall University; graduate study, Kanawha Valley Graduate Center, Marshall University
- CREIGHTON, JOHN W., Associate Professor of Music, 1945
M.A. 1942, Northwestern University; graduate study, Saint Louis University, Juilliard School of Music, Northwestern University
- CREIGHTON, VIRGINIA R., Assistant Professor of Home Economics, 1969
M.S. 1939, University of Iowa; graduate study, Marshall University
- CROSBIE, RONALD L., Assistant Professor of Physical Education, 1967
M.A. 1961, Eastern Kentucky University; graduate study, Temple University, Indiana University
- CROWE, JESSIE L., Instructor in Education, 1957
M.A. 1952, Marshall University; graduate study, Marshall University
- CUBBY, EDWIN A., Professor of Social Studies, 1949
Ph.D. 1962, Syracuse University
- CULNON, GEORGE D., Assistant Professor of Education, 1970
M.Ed. 1961, University of Pittsburgh
- CYRUS, PHYLLIS H., Associate Professor of Management, 1960
J.D. 1938, West Virginia University
- CZOMPO, ELIZABETH H., Assistant Professor of Mathematics, 1958
M.A. 1939, University of Kentucky; graduate study, University of Kentucky, Purdue University, Marshall University
- DAILEY, NELLIE S., Assistant Professor of Education, 1946
M.A. 1943, Colorado State College; graduate study, University of Southern California, Marshall University
- DAVIDSON, WILLIAM R., Associate Professor of Music, 1955
M.Mus. 1947, University of Illinois; graduate study, University of Illinois, Columbia University
- DAVIS, FLORENCE A., Assistant Professor of Education, 1946
M.A. 1941, Marshall University; graduate study, Marshall University
- DEDMON, DONALD N., Vice President for Academic Affairs and Professor of Speech, 1968
Ph.D. 1961, University of Iowa

- DEEL, WILLIAM S., Assistant Dean of Teachers College and Assistant Professor of Education, 1969
M.S. 1959, West Virginia University; graduate study, Indiana University
- DENBOW, CARL J., Instructor in Journalism, 1970
M.A. 1969, Ohio State University; graduate study, Ohio University
- DENMAN, WILLIAM N., Assistant Professor of Speech, 1965
M.A. 1965, California State College at Los Angeles; graduate study, California State College, University of Southern California, Ohio University, Marshall University
- DENNIS, TERRY L., Assistant Professor of Management, 1971
Ph.D. 1971, Purdue University
- DESKINS, FRANK, Instructor in Science, Williamson Branch, 1970
M.S. 1966, Marshall University
- DEUTSCH, LEONARD J., Instructor in English, 1970
M.A. 1967, City College of New York; graduate study, Kent State University
- DeVALLE, RODRIGO V., Clinical Associate Professor, Williamson Branch, 1969
M.D. 1948, University of Havana
- DEVOS, BRADFORD R., Assistant Professor of Music, 1967
M.Mus. 1963, Boston University; graduate study, Boston University
- DILLEY, BOOTS, Assistant Professor of Education, 1970
M.A. 1958, West Virginia University; graduate study, West Virginia University
- DILS, ROBERT J., Associate Professor of Physics and Physical Science (Physical Science), 1964
M.A. 1960, Marshall University; graduate study, Ohio State University, Marshall University
- DINGMAN, ROBERT L., Associate Professor of Education, 1968
M.Ed. 1961, Wayne State University; graduate study, Wayne State University
- DIXON, RICHARD D., Instructor in Sociology, 1971
M.A. 1970, Marshall University
- DIXSON, FREDERICK L., CT. Clinical Instructor in Cytotechnology, 1969
B.S. 1964, West Virginia Institute of Technology, ASCP Cytotechnology, 1968

- DOLIN, JOHN E., Assistant Professor of Art, 1969
M.Art Ed. 1969, University of Oklahoma; graduate study, University of Notre Dame
- DOUGLAS, JAMES R., Instructor in Education, 1968
M.A. 1962, Marshall University; graduate study, Marshall University
- DOUGLASS, JAMES E., Professor of Chemistry, 1965
Ph.D. 1959, University of Texas
- DRESCHER, JOANNE C., Associate Professor of Music, 1950
M.Mus. 1948, Indiana University; graduate study, Florida State University, University of Denver, Marshall University
- DUMKE, WARREN L., Associate Professor of Physics and Physical Science (Physics), 1967
Ph.D. 1965, University of Nebraska
- DUNKELBERGER, JAMES W., Captain, U. S. Army, Assistant Professor of Military Science, 1969
B.A. 1964, North Dakota State University
- DUNLAP, REBECCA A., Instructor in Speech, 1969
M.C.D. 1966, University of Oklahoma
- EAST, N. BENNETT, Assistant Professor of Speech, 1970
Ph.D. 1970, University of Kansas
- EATON, STANLEY B., Assistant Professor of Engineering, 1957
B.S.E.E. 1931, University of Maine; graduate study, University of Maine, West Virginia University, Marshall University; P. E.
- EDMUNDS, ROBERT F., Instructor in Speech, 1970
M.A. 1968, Ohio University
- ERTRESVAAG, ALICE, Assistant Professor of Art, 1966
M.Ed. 1953, University of Minnesota; graduate study, Columbia University, University of Minnesota
- EVERETT, KATHERINE M., Assistant Professor of Education, 1970
M.S. 1957, Florida State University; graduate study, Florida State University, Marshall University
- FEI, PETER K., Associate Professor of English, 1967
Ph.D. 1970, University of Michigan

- FELTY, WALTER C., Associate Professor of Education, 1950
M.A. 1950, Marshall University; graduate study, Indiana University,
Pennsylvania State University
- FERGUSON, WILLIAM F., Assistant Professor of Education, 1968
Ed.D. 1969, University of Mississippi
- FINK, MARVIN G., Instructor in Physical Education, 1969
M.S. 1968, Western Illinois University
- FISHER, DOROTHY A., Professor of Biological Sciences (Zoology), 1946
Ph.D. 1942, Cornell University; postdoctoral study, Cornell University,
University of North Carolina, University of Minnesota, University of
Michigan
- FOLSOM, JOEL D., Assistant Professor of Music, 1968
M.A. 1961, Adams State University; graduate study, Colorado State
College
- FOOTE, MARY ANN, Instructor in Speech, 1971
M.A. 1971, Purdue University
- FOSTER, S. CHARLES, Instructor in History, 1971
M.A. 1968, Marshall University; graduate study, Marshall University
- FRUM, W. GENE, Assistant Professor of Biological Sciences (Zoology), 1965
M.S. 1948, West Virginia University; graduate study, University of Kansas,
Marshall University
- FULKS, DANNY G., Associate Professor of Education, 1968
Ed.D. 1968, University of Tennessee
- GAIN, RONALD E., Assistant Professor of Biological Sciences (Botany), 1969
Ph.D. 1968, West Virginia University
- GARRETT, RUTH C., Professor of Speech, 1953
Ph.D. 1968, Ohio University
- GERKE, ROBERT S., Associate Professor of English, 1968
Ph.D. 1968, University of Notre Dame
- GIBBINS, NEIL L., Professor of Education, 1963
Ph.D. 1960, Ohio State University
- GILLENWATER, MACK H., Assistant Professor of Geography, 1968
M.A. 1958, Marshall University; graduate study, University of Iowa,
University of Tennessee

- GILLESPIE, JAMES P., Associate Professor of Biological Sciences, 1961
Ph.D. 1970, George Peabody College for Teachers
- GLASGOW, EDWARD C., Associate Professor of English, 1959
M.A. 1942, University of North Carolina; graduate study, West Virginia University, University of North Carolina, Marshall University
- GOEN, JAMES R., Instructor in Social Studies, 1970
M.A. 1970, Ball State University
- GOODWIN, JOHN, Associate Professor of Bible and Religion, 1968
Ph.D. 1970, Temple University
- GORDON, BILL K., Associate Professor of Education, 1967
Ed.D. 1967, University of Kentucky
- GOULD, ALAN B., Associate Professor of History, 1969
Ph.D. 1969, West Virginia University
- GREEN, N. BAYARD, Professor of Biological Sciences (Zoology), 1938
Ph.D. 1952, Ohio State University; Sc.D. 1967, Davis and Elkins College
- GREEN, PATRICIA A., Assistant Professor of Music, 1953
M.F.A. 1955, Ohio University; graduate study, University of Colorado, Syracuse University, Oberlin College, Marshall University
- GREENWOOD, BRUCE E., Instructor in Speech, 1969
M.A. 1969, Montclair State College
- GRUBBS, ROBERT D., Assistant Professor of Sociology, 1969
M.A.S.W. 1966, Indiana University
- GRUBER, CHARLES F., Instructor in Social Studies, 1967
M.A. 1967, Ohio University; graduate study, University of Pittsburgh
- HABEL, SAMUEL T., Professor of Sociology, 1964
Ph.D. 1945, University of Edinburgh; postdoctoral study, University of North Carolina
- HAGER, OLIVE B., Instructor in Physical Education, 1965
M.A. 1960, Marshall University; graduate study, Marshall University
- HALE, ROSCOE, JR., Assistant Professor of Education, 1968
M.A. 1960, Marshall University; graduate study, Ohio University, Marshall University

- HALL, RALPH H., Assistant Professor of Education, 1965
M.A. 1952, Marshall University; graduate study, Marshall University, West Virginia University
- HANGER, NANCY W., Assistant Professor of Education, 1968
M.A. 1960, Marshall University; graduate study, Marshall University, West Virginia University
- HANRAHAN, EDWARD S., Professor of Chemistry, 1963
Ph.D. 1959, West Virginia University
- HARBOLD, GEORGE J., Professor of Speech, 1947
Ph.D. 1955, Ohio State University
- HARDMAN, D. HUNTER, Professor of Mathematics, 1946
Ph.D. 1963, University of Pittsburgh
- HARLESS, JAMES W., Director of Admissions and Assistant Professor of Education, 1963
M.A. 1962, Marshall University; graduate study, Marshall University, West Virginia University
- HARVEY, PAULINE M., Assistant Professor of Education, 1968
M.A. 1965, Marshall University; graduate study, University of Virginia, West Virginia University, Marshall University
- HATFIELD, STEVEN H., Assistant Professor of Mathematics, 1963
M.S. 1963, West Virginia University; graduate study, West Virginia University, Marshall University
- HAYES, ROBERT B., Dean of Teachers College and Professor of Education, 1965
Ed.D. 1960, University of Kansas
- HEATH, HERSCHEL, Professor of History, 1946
Ph.D. 1933, Clark University
- HEGER, THEODORE C., Assistant Professor of Music, 1965
M.A. 1965, University of Iowa; graduate study, University of Iowa
- HENRY, SARA L., Instructor in Modern Languages (Spanish), 1968
M.A. 1969, Marshall University
- HESS, CLARKE F., Professor of Education, 1951
Ed.D. 1958, University of Pennsylvania
- HICKS, DOROTHY E., Professor of Physical Education, 1969
Ed.D. 1964, University of Tennessee

- HIXSON, KENNETH N., Instructor in Journalism, 1970
M.A. 1970, University of Iowa
- HOAK, EUGENE Q., Professor of Speech, 1960
Ph.D. 1954, Ohio State University
- HOBACK, JOHN H., Professor of Chemistry, 1945
Ph.D. 1947, West Virginia University
- HOBBS, ELIZABETH A., Instructor in English, 1967
M.A. 1967, West Virginia University
- HOGAN, JOHN W., Associate Professor of Mathematics, 1969
Ph.D. 1969, Virginia Polytechnic Institute
- HOPE, BEN W., Professor of Speech, 1947
Ph.D. 1960, Ohio State University
- HOY, LOUISE P., Professor of Classical Languages, 1963
Ph.D. 1952, Bryn Mawr College
- HUNTER, HELEN S., Assistant Professor of Education, 1957
M.A. 1956, Marshall University; M.A. 1964, Marshall University
- HUTTON, ROBERT P., Instructor in Art, 1970
M.F.A. 1970, Pennsylvania State University
- IMPERI, LEO V., Associate Professor of Music, 1952
M.A. 1951, Columbia University; graduate study, Columbia University,
University of Denver
- IRVIN, JAMES E., Professor of Education, 1959
Ph.D. 1958, Ohio State University
- JANSSEN, FRED L., Assistant Professor of Accounting, 1970
M.B.A. 1967, Xavier University; M.Ed. 1970, Xavier University
- JARRELL, JANICE, Instructor in Biological Sciences, 1968
M.S. 1968, Marshall University
- JARRETT, PEGGY P., Assistant Professor of Education, 1959
M.A. 1954, West Virginia University; graduate study, West Virginia
University, Marshall University
- JENKINS, OFFA LOU, Professor of Education, 1965
Ed.D. 1967, University of Virginia; postdoctoral study, Purdue University

- JENNINGS, LOUIS B., Professor of Bible and Religion, 1948
Ph.D. 1964, University of Chicago
- JERVIS, JACK, JR., Associate Professor of Education, 1964
Ed.D. 1971, University of Tennessee
- JINKS, WILLARD L., Assistant Professor of Biological Sciences (Zoology),
1967
Ph.D. 1968, University of Kentucky
- JOHNSON, DOROTHY R., Assistant Professor of Speech, 1965
M.A. 1947, University of Pennsylvania; M.A. 1948, Northwestern
University; graduate study, Marshall University, Ohio University
- JONES, CHARLES I., Professor of Education, 1969
Ed.D. 1967, Florida State University
- JONES, LAVELLE T., Associate Professor of Music, 1947
M.A. 1942, George Peabody College for Teachers; graduate study,
Cincinnati Conservatory of Music, George Peabody College for Teachers,
University of Denver, Temple University, University of Maine, Marshall
University
- JORDAN, BERFITT, Associate Professor of Mathematics, 1960
M.A. 1947, Marshall University; graduate study, Cornell University, West
Virginia University, University of Colorado, Oberlin College
- JORDAN, LEEDA P., Instructor in Journalism, 1970
M.A. 1970, University of Alabama
- KAHLE, E. BOWIE, Instructor in Biological Sciences, 1968
M.S. 1966, West Virginia University, graduate study, West Virginia
University
- KARR, CAROLYN MAE, Assistant Professor of Social Studies, 1966
M.A. 1963, Marshall University; graduate study, University of Kentucky
- KEARNS, WILLIAM G., Associate Professor of Speech, 1956
M.A. 1955, Ohio University; graduate study, Ohio University
- KEENAN, ROBERT A., Assistant Professor of English, 1969
M.A. 1969, Ohio University; graduate study, Ohio University
- KELLER, JAMES R., Assistant Professor of Mathematics, 1966
M.S.T. 1967, University of Arizona; graduate study, University of Illinois
- KELLNER, CLARENCE A., Associate Professor of Speech, 1969
Ph.D. 1969, Ohio University

- KHATENA, JOE, Associate Professor of Education, 1969
Ph.D. 1969, University of Georgia
- KILGORE, JUNE Q., Associate Professor of Art, 1959
M.A. 1962, Marshall University; graduate study, George Peabody College
for Teachers, Ohio University, Pratt Institute
- KINGSBURY, C. LAWRENCE, Professor of Music, 1950
Ed.D. 1945, Indiana University
- KIRBY, LOUISE T., Assistant Professor of English, 1959
M.A. 1959, Marshall University; graduate study, University of Virginia,
New College--Oxford University, University of Utah
- KNOUSE, DAVID C., Assistant Professor of Modern Languages (Spanish), 1967
M.A. 1967, West Virginia University; graduate study, Marshall University
- KONG, CHANG L., Associate Professor of Chemistry, 1967
Ph.D. 1967, St. Louis University
- KOONTZ, DAVID E., Associate Professor of Education, 1970
Ph.D. 1967, Kent State University
- KOPP, MARY S., R.N., Instructor in Nursing, 1969
B.S. 1948, Ohio State University; R. N., Jewish Hospital School of Nursing
- LA CASCIA, JOSEPH S., Professor of Economics, 1969
Ph.D. 1967, University of Florida
- LANEGGER, ALFRED P., Associate Professor of Music, 1947
M.M. 1947, Syracuse University; Diploma, State Academy of Music,
Munich, 1929
- LARSON, JOHN W., Assistant Professor of Chemistry, 1968
Ph.D. 1968, Carnegie-Mellon University
- LAWSON, DONNA L., Instructor in Physical Education, 1967
M.S. 1966, Marshall University
- LEMKE, THOMAS F., Assistant Professor of Chemistry, 1970
Ph.D. 1968, Lehigh University
- LENNING, ANN, Instructor in English, 1969
M.A. 1966, Marshall University; graduate study, Marshall University, Ohio
University
- LEPLEY, ARTHUR R., Professor of Chemistry, 1965
Ph.D. 1958, University of Chicago

- LESLIE, SHARON, MTASCP, Clinical Instructor in Medical Technology, 1968
B.S.M.T. 1962, Marshall University
- LEVY, ARTHUR E., Clinical Professor, Williamson Branch, 1969
M.D. 1946, New York University
- LICHTENSTEIN, JOSEPH M., Associate Professor of Education, 1946
M.A. 1940, Fordham University; graduate study, Columbia University,
Rutgers University, University of Cincinnati, New York University
- LIEBERMAN, JULIUS, Professor of Modern Languages (German), 1946
Ph.D. 1943, University of Cincinnati
- LITTLER, JOHN G. F., Assistant Professor of Chemistry, 1968
Ph.D. 1966, Nottingham University
- LUCAS, FREDERICK D., Instructor in Social Studies, Logan Branch, 1970
M.A. 1967, Marshall University; graduate study, Marshall University
- LUSTIG, VINCENT F., Assistant Professor of Speech, 1969
Ph.D. 1970, Ohio State University
- LUTZ, PAUL F., Instructor in History and Geography, Logan Branch, 1970
M.A. 1970, Marshall University
- MacCONNEY, LINDA K., Instructor in Office Administration, 1969
M.A. 1969, Marshall University
- McCARNES, EDWIN C., Instructor in Speech, 1967
M.A. 1965, West Virginia University; graduate study, Ohio University,
Marshall University
- McCASKEY, AMBROSE E., Dean of College of Applied Science and Professor
of Engineering, 1936
Ph.D. 1955, University of Wisconsin; P.E.
- McCLELLAN, BETTY K., Instructor in English, 1967
M.A. 1961, Case Western Reserve University
- McCLURE, PATRICIA G., Instructor in Business Administration, Logan Branch,
1969
M.A. 1969, Marshall University
- McCONNELL, JOHN J., Instructor in Management, 1969
M.B.A. 1969, University of Pittsburgh
- McCOY, THOMAS, Assistant Professor of Journalism, 1970
J.D. 1970, Oklahoma City University

- McCOY, ZANE, Associate Professor of Education, 1969
Ph.D. 1970, Ohio State University
- McGHEE, JERRIE L., Instructor in Home Economics, 1970
M.S. 1968, Pennsylvania State University
- McKEEGAN, PAUL E., Instructor in Art, 1969
M.A. 1969, Kent State University
- McKERNAN, JOHN J., Assistant Professor of English, 1967
M.F.A. 1971, Columbia University
- McMULLEN, KYLE G., Associate Professor of Accounting, 1966
M.B.A. 1970, West Virginia University; C.P.A., 1960
- MADDOX, ROBERT F., Assistant Professor of History, 1966
M.A. 1966, Marshall University; graduate study, University of Kentucky
- MANAKKIL, THOMAS J., Associate Professor of Physics and Physical Sciences
(Physics), 1967
Ph.D. 1967, New Mexico State University
- MARSHALL, MARY E., Assistant Professor of Physical Education, 1966
M.S. 1964, University of Tennessee; graduate study, University of
Tennessee, Connecticut College School of Dance
- MARSTELLER, DANIEL F., Assistant Professor of English, 1970
M.A. 1965, University of Virginia; graduate study, Vanderbilt University
- MARTIN, DONALD C., Professor of Physics and Physical Sciences (Physics),
1943
Ph.D. 1936, Cornell University; postdoctoral study, Northwestern
University, University of New Mexico
- MARTIN, JOHN L., Professor of Modern Languages (Spanish), 1935
Ph.D. 1940, University of Pittsburgh
- MATHEWS, SHIRLEY F., Instructor in Education, 1945
M.A. 1944, University of Wisconsin; graduate study, University of
Southern California, University of Wisconsin, University of Minnesota,
Marshall University
- MATZ, CLAIR W., JR., Assistant Professor of Political Science, 1970
Ph.D. 1970, University of Virginia
- MEAD, JOHN H., Assistant Professor of Music, 1969
M.A.T. 1968, University of Vermont; graduate study, University of
Kentucky

- MEADOWS, STEVEN A., Assistant Professor of Education, 1967
M.A. 1965, Marshall University; graduate study, Marshall University,
George Washington University
- MENDENHALL, GEORGE M., Assistant Professor of Engineering, 1960
B.E.S. 1960, Marshall University; graduate study, West Virginia University
(KVGCI), Louisiana Polytechnic Institute
- MILAM, EDITH W., Assistant Professor of English, 1958
M.A. 1955, Marshall University; graduate study, George Peabody College
for Teachers, Morehead State University, Marshall University
- MILICIA, MAUREEN B., Assistant Professor of Speech, 1968
M.A. 1967, Marshall University; graduate study, Marshall University
- MILLER, CARL B., Associate Professor of Marketing, 1946
M.A. 1942, Northwestern University; graduate study, University of
Kentucky, University of Colorado, Boston University
- MILLER, EVA L., Assistant Professor of Accounting, 1946
M.A. 1942, Columbia University
- MILLS, HOWARD L., Professor of Biological Sciences (Botany), 1951
Ph.D. 1951, State University of Iowa
- MILLS, MARVIN D., Associate Professor of Physical Education, 1968
M.A. 1949, New York University; graduate study, New York University,
West Virginia University, University of Kentucky, Michigan State
University
- MININNI, FRANK J., Associate Professor of Philosophy, 1970
Ph.D. 1970, University of Innsbruck
- MITCHELL, MARVIN O., Professor of English, 1952
Ph.D. 1953, University of North Carolina
- MODLIN, PHILIP E., Assistant Professor of Biological Sciences, 1957
M.A. 1957, Marshall University; graduate study, West Virginia University
- MOFFAT, CHARLES H., Professor of History, 1946
Ph.D. 1946, Vanderbilt University
- MORELL, R. W., Dean of School of Business and Professor of Business
Administration, 1969
Ph.D. 1957, St. Louis University; postdoctoral study, Indiana University
- MORGAN, PATRICK H., Assistant Professor of Engineering, 1962
M.A. 1965, Marshall University

- MORGAN, RONALD R., Assistant Professor of Education, 1971
Ph.D. 1970, Arizona State University
- MORRIS, DAN E., Assistant Professor of Education, 1971
M.Ed. 1965, University of Cincinnati
- MOSHER, MELVYN W., Assistant Professor of Chemistry, 1969
Ph.D. 1968, University of Idaho
- MURPHY, HAROLD T., Associate Professor of Modern Languages (Spanish),
1960
M.A. 1955, Vanderbilt University; graduate study, University of
Guanajuato, Case Western Reserve University
- NICHOLS, JACK E., Assistant Professor of Education, 1970
M.A. 1951, Marshall University; graduate study, Marshall University
- NORRIS, J. Mikel, Instructor in English, 1970
M.A. 1970, Marshall University
- NOVAK, ELAINE A., Professor of Speech, 1956
Ph.D. 1963, Ohio State University
- NUNLEY, GARY S., Instructor in English, 1969
M.A. 1967, University of Kansas; graduate study, University of Kansas
- OAKLEY, MARJORIE R., Assistant Professor of Home Economics and
Counselor, Logan Branch, 1968
M.A. 1949, West Virginia University; graduate study, West Virginia
University, Marshall University, University of Kentucky, Indiana State
University
- OBERLY, RALPH E., Assistant Professor of Physics and Physical Sciences
(Physics), 1970
Ph.D. 1970, Ohio State University
- O'CONNELL, THOMAS S., Associate Professor of Music, 1948
M.M. 1947, University of Michigan; graduate study, University of Michigan
- OLIPHANT, C. A. BILL, Professor of Journalism, 1970
Ph.D. 1968, University of Iowa
- OLSON, ROBERT D., Professor of Speech, 1968
Ph.D. 1965, Northwestern University
- OLSON, THOMAS W., Assistant Professor of Engineering, 1955
B.E.S. 1955, Marshall University; graduate study, Marshall University,
West Virginia University, Iowa State University; P. E.

- OVERHOLT, SHIRLEY W., Instructor in Office Administration, 1968
M.A. 1966, Marshall University
- PAGE, CLAYTON R., Professor of Speech, 1946
M.A. 1939, Pennsylvania State University; M.A. 1940, Baylor University,
graduate study, State University of Iowa
- PARRISH, VIRGINIA N., Associate Professor of Modern Languages (French),
1947
M.A. 1940, University of Kentucky, graduate study, University of
Kentucky
- PARSONS, KATHRYN T., R.N., Instructor in Nursing, 1970
B.S.N.Ed. 1949, University of Virginia
- PATHAK, CHANDRA P., Assistant Professor of Economics, 1969
M.Com. (Bus.) 1959, University of Allahabad, India; graduate study,
University of Tennessee
- PATRAM, SARAH L., R.N., Associate Professor of Nursing, 1964
M.S.N. 1959, Catholic University of America
- PAYNE, BRUCE C., Instructor in Management, 1970
M.B.A. 1970, University of South Florida
- PAYNTER, WILLIAM H., Assistant Professor of Social Studies, 1968
M.A. 1963, Ohio State University; graduate study, Ohio State University
- PEELE, CHARLES V., Assistant Professor of Mathematics, 1967
M.A.M. 1963, North Carolina State University; graduate study, University
of Cincinnati
- PERL, WALTER H., Professor of Modern Languages (German), 1948
Ph.D. 1936, University of Zurich
- PERRY, SIMON D., Professor of Political Science, 1962
Ph.D. 1961, Michigan State University
- PETT, THELMA C., Assistant Professor of Education, 1968
M.Ed. 1968, Miami University; graduate study, Marshall University
- PHILLIPS, B. MAXINE, Associate Professor of English, 1964
M.A. 1957, University of Alabama; graduate study, University of North
Carolina, University of Kentucky
- PHILLIPS, EDWARD S., Assistant Professor of Economics, 1971
Ph.D. 1970, University of Colorado

- PHOTIADES, PHOTIOS, Instructor in Mathematics, 1968
M.S. 1968, Ohio University; graduate study, Ohio University
- PILTZ, ETHEL D., Assistant Professor of Marketing, 1960
M.Ed. 1949, University of Pittsburgh; graduate study, Ohio University,
Marshall University
- PITTMAN, PHILIP M., Associate Professor of English, 1968
Ph.D. 1967, Vanderbilt University
- PLASTERR, NORMA L., Instructor in English, Logan Branch, 1967
M.A. 1965, Marshall University
- PLOTT, JOHN C., Associate Professor of Philosophy, 1965
Ph.D. 1956, Banaras Hindu University
- PLUMLEY, VIRGINIA D., Instructor in Education, 1969
M.A. 1969, Marshall University
- PLYBON, IRA F., Assistant Professor of English, 1970
M.A. 1962, Marshall University; graduate study, University of Maryland
- PLYMALE, EDWARD L., Professor of Biological Sciences (Botany), 1946
Ph.D. 1942, State University of Iowa
- PLYMALE, LYLE F., Associate Professor of Physics and Physical Sciences
(Physical Science), 1965
M.A. 1948, Marshall University; graduate study, University of North
Carolina, Marshall University
- PLYMALE, SALLIE H., Instructor in Education, 1968
M.A. 1968, Marshall University; graduate study, Marshall University, Ohio
University
- POOLE, GEORGE G., Captain, U. S. Army, Assistant Professor of Military
Science, 1970
B.A. 1965, William and Mary College
- POWELL, LUTHER C., Major, U. S. Army, Assistant Professor of Military
Science, 1970
B.A. 1961, Southern University
- PRELAZ, EDWARD J., Assistant Professor of Physical Education, 1954
M.S. 1956, West Virginia University; graduate study, West Virginia
University, Marshall University

- PUTZ, MARILYN R., Associate Professor of English and Director of Creative Writing, 1956
M.A. 1955, Vanderbilt University and George Peabody College for Teachers; graduate study, Vanderbilt University, Instituto Allende San Miguel de Allende, Mexico, George Peabody College for Teachers, Morehead State University
- QUEEN, BERNARD, Professor of Education, 1963
Ph.D. 1967, Ohio State University
- RACZOK, HARRY A., Instructor in Biological Sciences, (Botany), 1968
M.S. 1966, Marshall University; graduate study, University of Maryland, Marshall University
- RAILEY, JIMMY H., Associate Professor of Physical Education, 1971
P.E.D. 1969, Indiana University
- RAMSEY, WILLIAM C., Assistant Professor of English, 1970
M.A. 1967, University of North Carolina; graduate study, University of North Carolina
- RANSON, A. OTIS, Professor of Speech, 1931
M.A. 1935, University of Wisconsin
- REGULA, WALTER E., Associate Professor of Education, 1962
Ph.D. 1965, Ohio State University
- RIDDEL, FRANK S., Instructor in Social Studies, 1968
M.A. 1965, Marshall University
- RITCHIE, CHARLES C., JR. Professor of Education, 1959
Ed.D. 1963, West Virginia University
- ROBERTS, BETTY R., Assistant Professor of Physical Education, 1969
M.S. 1963, University of Tennessee; graduate study, University of Tennessee, University of North Carolina at Greensboro
- ROBERTS, JOSEPH L., Associate Professor of Chemistry, 1966
Ph.D. 1964, University of Cincinnati
- ROGERS, WILEY S., Professor of Geology, 1969
Ph.D. 1960, University of North Carolina
- ROSS, WALTER L., Assistant Professor of Psychology, 1969
Ph.D. 1971, Brigham Young University

- ROSSWURM, RICHARD H., Assistant Professor of Political Science, 1968
M.A. 1964, Catholic University of America; graduate study, University of Maryland
- ROWE, CLYDE E., Sergeant First Class, U. S. Army, Instructor in Military Science, 1970
- ROYER, HERBERT H., Assistant Professor of Education, 1948
M.A. 1953, Marshall University; graduate study, San Jose State College, California Polytechnic Institute, University of Pacific, Monterey Peninsula College
- RUMMELL, MARTHA B., Assistant Professor of Education, 1938
M.Ed. 1938, University of Cincinnati; graduate study, University of Minnesota, Marshall University
- RUNYAN, CHARLES S., Professor of Education, 1953
Ed.D. 1953, University of Missouri
- RUTHERFORD, JAMES W., Assistant Professor of Physics and Physical Sciences (Physical Science), 1960
M.S. 1949, West Virginia University; graduate study, Marshall University, West Virginia Wesleyan College
- SADLER, JASPER E., Clinical Professor of Medical Technology, 1956
M.D. 1950, University of Cincinnati
- SAGER, MICHAEL O., Instructor in Physical Education, 1970
M.Ed. 1970, Ohio University
- SAUNDERS, ROBERT C., Assistant Professor of Physical Education, 1967
M.A. 1963, Ohio State University; graduate study, University of Maryland, Ohio State University
- SAWANIEWSKI, WALTER, Assistant Professor of English, 1963
M.A. 1963, Marshall University; graduate study, Morehead State University, Marshall University, University of London, England
- SCHLEICHER, JANE E., Associate Professor of Music, 1969
D.M.A. 1966, University of Illinois
- SCHWENDIMAN, GARY, Assistant Professor of Psychology, 1969
Ph.D. 1971, Brigham Young University
- SCRUDATO, RONALD J., Assistant Professor of Geology, 1969
Ph.D. 1969, University of North Carolina

- SHAMBORA, WILLIAM E., JR., Lieutenant Colonel U. S. Army, Professor of Military Science 1971
B.S.E. 1950, United States Military Academy
- SHANHOLTZER, WESLEY L., Assistant Professor of Physics and Physical Sciences (Physics), 1966
Ph.D. 1968, West Virginia University
- SHARMA, CHANDRA B., Associate Professor of Chemistry, 1968
Ph.D. 1965, Texas A & M University
- SHEILS, JOHN P., Clinical Associate Professor of Medical Technology, 1965
M.D. 1960, Medical College of Virginia
- SHEPHERD, JANE B., Professor of Music, 1958
M.M. 1942, Cincinnati Conservatory of Music; graduate study, Juilliard School of Music
- SHOEMAKER, JON P., Associate Professor of Biological Sciences (Zoology), 1964
Ph.D. 1964, Auburn University
- SILL, MAURICE L., Professor of Sociology, 1969
Ph.D. 1958, Pennsylvania State University
- SIMAIKA, RAOUF, Associate Professor of Modern Languages (French), 1969
Dr. of Letters 1962, University of Geneva
- SIMPKINS, O. NORMAN, Professor of Sociology, 1948
Ph.D. 1953, University of North Carolina
- SINGH, RAM N., Assistant Professor of Sociology, 1969
Ph.D. 1970, University of Georgia
- SISARCICK, WOOD C., Assistant Professor of Mathematics, 1965
M.A. 1965, West Virginia University; graduate study, West Virginia University
- SKEINS, HARRY, JR., Major, U. S. Army, Assistant Professor of Military Science, 1969
M.A. 1960, Marshall University
- SLAATTE, HOWARD A., Professor of Philosophy, 1965
Ph.D. 1956, Drew University
- SMITH, ALLEN C., JR., Assistant Professor of Engineering, 1968
M.S.M.E. 1965, Virginia Polytechnic Institute; graduate study, Virginia Polytechnic Institute

- SMITH, BIRNA R., Instructor in Speech, 1968
M.A. 1968, Ohio University; graduate study, Marshall University, Ohio State University
- SMITH, GLENN E., Director of Research Coordinating Unit for Vocational Education, 1967
M.S. 1954, West Virginia University; graduate study, Marshall University
- SMITH, JOHN E., Assistant Professor of Education, 1969
Ed.D. 1969, West Virginia University
- SMITH, THELMA T., Assistant Professor of Education, 1950
M.A. 1950, Marshall University; graduate study, Marshall University
- SOWARDS, HARRY E., Assistant Professor of Education, 1966
M.A. 1961, Marshall University; graduate study, Marshall University, Colorado State College
- STACY, WILLIAM B., Instructor in Music, 1968
M.A. 1968, University of North Carolina
- STERNS, HARVEY N., Associate Professor of Education, 1969
Ph.D. 1968, University of Michigan
- STEWART, PAUL D., Professor of Political Science, 1948
Ph.D. 1948, Duke University
- STICKMAN, BARBARA B., Assistant Professor of English, 1965
M.A. 1965, Marshall University; graduate study, Marshall University, West Virginia University, Ohio University
- STINSON, SAMUEL T., Professor of Engineering, 1940
M.S.E. 1950, University of Michigan; graduate study, Virginia Polytechnic Institute; P.E.
- STOCK, JEROLD, Instructor in English, Logan Branch, 1969
M.A. 1969, Marshall University
- STOOKE, DAVID E., Associate Professor of English, 1967
M.A. 1962, George Peabody College for Teachers; graduate study, George Peabody College for Teachers, University of Missouri
- STULL, ELLA D., Instructor in Physical Education, 1968
M.S. 1966, West Virginia University
- STUMP, NANCY K., Assistant Professor of Modern Languages (French), 1968
M.A. 1968, Ohio State University

- SUITER, PHIL E., Associate Professor of Education, 1966
Ph.D. 1969, Ohio State University
- SULLIVAN, HENRY J., Instructor in Speech, 1969
M.A. 1969, West Virginia University
- SULLIVAN, WILLIAM P., Professor of English, 1968
Ph.D. 1961, Columbia University
- TAGGART, JAMES L., Associate Professor of Music, 1970
Ph.D. 1963, University of Iowa
- TARTER, DONALD C., Associate Professor of Biological Sciences (Zoology),
1969
Ph.D. 1968, University of Louisville
- TAYLOR, ELINORE, Instructor in English, 1970
M.A. 1966, Marshall University
- TEEL, JOHN W., Assistant Professor of English, 1967
M.A. 1962, Marshall University; graduate study, Kent State University
- THEIS, ANNA V., Associate Professor of Library Science, 1953
M.A. 1948, Case Western Reserve University; M.S. in Library Science
1955, Case Western Reserve University
- THOMPSON, LAYTON O., Associate Professor of Mathematics, 1955
M.S. 1955, West Virginia University
- THORN, ERIC P., Associate Professor of English and Director of Honors
Program, 1956
M.A. 1956, Brooklyn College; graduate study, New York University
- TILLER, WARREN P. Instructor in Social Studies, Williamson Branch, 1968
M.A.Ed. 1968, Union College
- TUCKER, GLENN G., Associate Professor of Education, 1969
Ed.D. 1969, University of Florida
- TURKO, JOHN, Assistant Professor of Physical Education, 1969
M.S. 1962, West Virginia University; graduate study, West Virginia
University
- TURNER, RALPH, Instructor in Journalism, 1968
M.A. 1969, Marshall University; graduate study, Marshall University
- TURNER, TAYLOR E., JR., Associate Professor of Education and Director of
Reading Center, 1968
Ed.D. 1967, University of Virginia

- TYSON, A. MERVIN, Director of Institutional Self Study and Professor of English, 1959
Ph.D. 1952, University of Pennsylvania
- VALENTINE, CAROL T., Instructor in English, 1965
M.A. 1963, Marshall University; graduate study, Marshall University, Morehead State University
- VASS, MARGARET S., Assistant Professor of Education, 1958
M.A. 1961, Marshall University; graduate study, Marshall University
- VEST, GAYLE L., Instructor in Modern Languages (German), 1969
M.A. 1968, West Virginia University
- VICKERS, CAROL A., Associate Professor of Home Economics, 1966
Ph.D. 1969, Ohio State University
- VIRGALLITO, BEULAH B., Assistant Professor of English, 1960
M.A. 1960, Marshall University; graduate study, Ohio State University, Marshall University
- WAITE, RICHARD W., Associate Professor of Education, 1968
Ph.D. 1968, University of Michigan
- WALDRON, DIANA C., Instructor in English, 1968
M.A. 1968, University of Virginia
- WALLACE, WILLIAM A., Professor of Education, 1967
Ed.D. 1966, Wayne State University
- WARD, GEORGE II., Professor of Psychology, 1962
Ph.D. 1961, Ohio State University
- WARD, HAROLD E., Professor of Biological Sciences, 1950
Ph.D. 1964, Ohio State University
- WARREN, JOHN R., Dean of Graduate School and Professor of Biological Sciences (Botany), 1964
Ph.D. 1950, Ohio State University
- WATKINS, HAROLD W., Instructor in Biological Sciences, Logan Branch, 1966
M.S. 1963, Marshall University; graduate study, Marshall University, Carson-Newman College
- WEBB, CHARLES D., Associate Professor of Accounting, 1967
M.B.A. 1970, West Virginia University; C.P.A. 1966

- WEBB, A. BERT, Assistant Professor of Education, 1971
Ed.D. 1971, University of Tennessee
- WEBSTER, WESLEY G., Instructor in English, 1969
M.A. 1969, University of Arkansas
- WELLMAN, RUTH T., Associate Professor of Education, 1970
M.A. 1960, Marshall University; graduate study, Ohio University
- WELLS, JANE F., Assistant Professor of English, 1966
M.A. 1966, Marshall University; graduate study, Marshall University,
Morehead State University, West Virginia University
- WERTHAMMER, SIEGFRIED, Clinical Professor of Medical Technology, 1956
M.D. 1937, University of Vienna
- WHEAR, PAUL W., Associate Professor of Music, 1969
Ph.D. 1961, Case Western Reserve University
- WHITLEY, W. THURMON, Assistant Professor of Mathematics, 1970
Ph.D. 1969, Virginia Polytechnic Institute
- WIDEMAN, THOMAS B., JR., Assistant Professor of Education, 1969
Ed.S. 1970, University of Alabama
- WILLEY, HAROLD L., Professor of Education, 1946
Ed.D. 1958, University of Tennessee
- WILLIAMS, T. D. DUNCAN, Professor of English, 1966
M.A. 1956, Oxford University, England
- WILLIAMS, TONY L., Associate Professor of Social Studies, 1970
Ed.D., 1970, West Virginia University
- WILSON, LAURA L., R. N., Instructor in Nursing, 1967
B.S.N. Ed. 1953, University of Pittsburgh
- WISWELL, MERIDETH P., Assistant Professor of Management, 1970
J. D. 1948, University of Michigan (Law); Th.M. 1959, Claremont
University Center; LL.M. 1960, Yale University (Law)
- WITOFSKY, STANLEY I., Instructor in Speech, 1970
M.F.A. 1970, Ohio University
- WOLF, ELIZABETH B., Professor of Psychology, 1960
Ph.D. 1946, Case Western Reserve University

WOLFF, ROBERT D., Professor of Music, 1963
Ed.D. 1961, Columbia University

WOODEN, WARREN W., Assistant Professor of English, 1968
Ph.D. 1971, Vanderbilt University

WOODWARD, DAVID R., Associate Professor of History, 1970
Ph.D. 1965, University of Georgia

WRIGHT, BERNICE F., Associate Professor of Education, 1946
M.A. 1929, University of Michigan; graduate study, University of
Washington, Marshall University

WRIGHT, KATHRYN W., Instructor in Education, 1967
M.A. 1967, Marshall University

UNIVERSITY LIBRARY

Harold W. Apel, A.B., M.S.L.S. Librarian
Margaret S. Bobbitt, A.B., B.S.L.S. Reference Librarian
E. Jane Brugger, A.B., B.S.L.S. Catalog Librarian
Leah Josephine Fidler, A.B., M.A.L.S. Acquisition Librarian
Jean A. Stephenson, A.B., M.S.L.S. Collegiate Library Librarian
Bernice A. Dorsey, A.B., B.S.L.S. Assistant Collegiate Library Librarian
Gloria J. Brewer, A.B., M.A.L.S. Assistant Catalog Librarian
Hugh E. Schramm, B.A., M.S.L.S. Assistant Catalog Librarian
M. Kathleen Maspero, B.A., M.L.S. Assistant Reference Librarian
Barbara D. Doherty, A.B., B.S.L.S., Assistant Reference Librarian
Elizabeth J. Hill, B.S., M.L.S. Assistant Reference Librarian
Helen S. Jenkins, A.B., B.S.L.S. Serials Librarian (Acquisitions)

**RETIRED FACULTY, PROFESSIONAL LIBRARIANS AND
ADMINISTRATIVE STAFF**

*The years of service are indicated by the time
of appointment and retirement*

Berryman, Charlotte E., Professor of Physical Education	1927-1966
Bledsoe, Luther, Registrar	1940-1969
Bragonier, Dorothy B., Associate Professor of Mathematics	1927-1958
Browning, Elmer R., Professor of Management	1968-1971
Buskirk, Lillian H., Associate Dean of Students	1937-1970
Core, Eric V., Associate Professor of Education	1957-1971
Cubbedge, Annie P., Instructor in Education	1923-1944
Darlington, Hollie C., Professor of Science	1930-1957
Davis, Leslie M., Professor of Geography	1938-1966
Denoon, Anna L., Professor of Mathematics	1909-1947
Douthat, Lyell V., Associate Professor of Education	1926-1967
Edeburn, Ralph, Professor of Zoology	1945-1970
Evans, Irene, Associate Professor of Business Administration	1939-1969
Fitch, Frederick A., Professor of Physical Education	1930-1971
Foose, Ruby C., Associate Professor of Home Economics	1946-1966
Fors, Juan C., Professor of Spanish	1931-1966
Goins, Mary, Associate Professor of Mathematics	1946-1969
Gray, Cleo M., Associate Professor of Home Economics	1947-1962
Gray, Rex, Associate Professor of Curriculum and Instruction	1948-1971
Groves, David F., Assistant Professor of Engineering	1958-1969
Hanna, Loren E., Associate Professor of Physics	1962-1969
Harper, Charles P., Professor of Political Science	1946-1967
Harrison, Clara H., Assistant Professor of Marketing	1938-1971
Harvey, Helen B., Associate Professor of English	1942-1959
Hayward, Harold M., Professor of Sociology	1938-1962
Jablonski, Joseph S., Professor of Art	1929-1966
Janssen, Raymond E., Professor of Geology	1942-1969
Jones, Ernestine T., Assistant Professor of English	1948-1961
Land, Rufus L., Associate Professor of Economics	1946-1965
Largent, Robert J., Professor of History and Dean of the College of Arts and Sciences	1903-1942
Lee, Virginia E., Associate Professor of Journalism	1941-1963
Loemker, Kenneth K., Professor of Psychology	1930-1971
McDonough, Louise, Professor of Physical Education	1929-1969
McKee, T. Craig, University Physician	1961-1967
McMullen, Eugenia R., Associate Professor of Music	1945-1968
Machen, Edith W. (Amick), Instructor in Education	1913-1955
Mann, Mary Shepp, Instructor in Music	1968-1970
Mitchell, Dora M., Assistant Professor of Education	1951-1967
Musgrave, Paul N., Professor of Education	1938-1962
Noble, Alma, Associate Professor of Modern Languages (French)	1941-1969
Oliver, Rosa V., Librarian	1925-1955

Parsons, Russ, Assistant Football Coach	1968-1969
Pitt, W. Page, Professor of Journalism	1926-1971
Pollitt, Joseph D., Associate Professor of English	1936-1963
Richardson, J. T., Professor of Sociology	1949-1969
Robertson, Kathleen I., Associate Professor of Speech	1946-1970
Robinson, Ruth, Professor of Physical Education	1932-1962
Rouse, Myrtle M., Professor of Home Economics	1936-1961
Rumple, Ora E., Professor of Chemistry	1947-1964
Shouse, James B., Professor of Education and Dean of the Teachers College	1920-1945
Smith, Russell B., Professor of Education	1949-1959
Strouss, Adella E., Associate Professor of Home Economics	1943-1970
Sullivan, Bernice W., Assistant Professor of Education	1968-1970
Wehler, Katherine, Professor of English	1922-1953
White, Mary Ann W., Associate Professor of English	1934-1958

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

HISTORY

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

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

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

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

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

However, financial difficulties, doubtless aggravated by the sectional differences of the time, became acute and, near the beginning of the Civil War, the institution was sold for debt.

During the war years the college premises were occupied by a family some members of which conducted a private school to satisfy the clause in the deed which limited use of the property to school purposes. Tradition holds that the building was also used for a time as a hospital for Union soldiers.

In 1867, four years after the birth of the new state of West Virginia, the Legislature passed an act creating a normal school ". . . to be called West Virginia State Normal School . . . to be established at Marshall College in the County of Cabell."

College preparatory work was offered in addition to teacher training and, by 1886, there was also a full "academical" course of two years. Through the later years of the 19th century and the first two decades of the 20th, the college offered, in addition to secondary work, two years of liberal arts work and two years of teacher training.

In 1920 the West Virginia State Board of Education approved the granting of a bachelor's degree in education. Teachers College conferred degrees upon four candidates in June 1921.

The degree of Bachelor of Science was authorized in 1938, Bachelor of Engineering Science in 1940, and Bachelor of Science in Chemistry in 1951. The Bachelor of Business Administration was approved in 1954. In 1945 two-year programs leading to degrees of Associate in Arts and Associate in Science were approved.

A Division of Adult Education was established in 1947 to provide continuing education programs. The division, now the Division of Continuing Education, directs evening courses on the graduate and undergraduate level, offers extension work in various cities, and conducts special workshops, seminars, and institutes.

The Graduate School, authorized in May, 1948, grew out of a program of graduate work in six departments which had been established in 1938. Courses leading to the Master of Arts and Master of Science degrees were offered.

The College of Applied Science, established in 1960, offers studies in engineering, medical technology, cytotechnology, nursing, and military science.

West Virginia's first educational FM station, WMUL, began broadcast activities in 1960.

The expanded academic program was officially recognized by the West Virginia Legislature in 1961 when it changed the name of the college to Marshall University. In 1963 Marshall University again enlarged its program by establishing Branches at Logan and Williamson. Two-year programs are available at the Branches with the final studies being taken on the main campus.

In 1966 a new degree program leading to the Master of Business Administration was approved, followed by new degrees of Master of Arts in Journalism, Bachelor of Science in Cytotechnology and Associate in Science in Cytotechnology in 1969.

Closed circuit television was first used for classroom instruction on the main campus in 1968. WMUL-TV began telecasting instructional and educational programs in 1969.

The School of Business was established as a major division in 1969.

ACCREDITATION

Marshall University is accredited by the North Central Association of Colleges and Secondary Schools and by the National Council for Accreditation of Teacher Education. Academic credits earned at Marshall University are fully standardized and are accepted by all other colleges and universities.

The Department of Chemistry is accredited by the American Chemical Society. The Civil Engineering Curriculum is accredited by the Engineer's Council for Professional Development. 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.

BRANCHES

Branches at Logan and Williamson offer two years of work in the college of Arts and Sciences, Teachers College, the College of Applied Science and School of Business. One year of credit can be earned in engineering. All work carries full residence credit. The Associate in Science degree in secretarial science is offered in both branches. An Associate in Science degree in radiologic technology is offered in the Williamson Branch.

High school graduates and adults may enroll for courses in the branches provided they meet all qualifications for admission to the university.

Most classes are offered in late afternoon and evenings so students can attend classes on a full-or part-time basis while working in their communities.

DIVISIONS

The university functions through six divisions: Teachers College, College of Arts and Sciences, College of Applied Science, Graduate School, Division of Continuing Education, and School of Business.

BUILDINGS

The Marshall University main campus consists of 65.5 acres near the center of Huntington. Building facilities are:

OLD MAIN, the oldest building on the campus, was built in sections between 1868 and 1908. It houses an auditorium, administrative and service offices, classrooms, and faculty offices.

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

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

MARSHALL UNIVERSITY LIBRARY, main section erected in 1930 honoring a former president of the university James E. Morrow. Additions completed in 1967.

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

EVELYN HOLLBERG SMITH MUSIC HALL, completed in 1967 as part of the complex which includes the Stewart Harold Smith Hall. Total construction cost of the complex was \$3,800,000. Houses the Department of Music. Named for the wife of the university president who served from 1947-1968.

OTTO GULLICKSON HALL was completed in 1961 and named in 1963 to honor an outstanding Marshall leader and teacher. The building houses the Department of Athletics, Department of Physical Education for Men, Department of Military Science and the Student Health Center. Facilities include classrooms, a main gymnasium with seating for 1,500, three auxiliary gymnasiums, a regulation swimming pool with seating for 350 spectators, a rifle range, 30-bed dormitory, and physical therapy rooms.

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

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

SHAWKEY BUILDING, built in 1932, it is named in honor of Morris P. Shawkey, a former president of the university. An addition to the building in 1955 doubled its original facilities.

UNIVERSITY DINING HALL was completed in 1940.

CAMPUS CHRISTIAN CENTER, erected in 1960, was built and is maintained by private donations. The center includes a 200-seat chapel, 250-seat fellowship hall, library, lounge, kitchen, conference rooms, and offices of religious counselors.

PRESIDENT'S HOUSE, located at 1515 Fifth Avenue, provided as the residence for university presidents in 1966.

LAIDLEY HALL, opened in 1937, is a residence hall for women. It is

named in honor of the university's founder, John Laidley.

LUCY PRICHARD HALL, housing women, was completed in 1955. Originally known as the Freshman Women's Dormitory, it was renamed in 1962 in honor of an outstanding former teacher at Marshall.

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

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

WEST HALL, completed in 1964 to house women.

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

MAINTENANCE, headquarters for the Department of Buildings and Grounds.

MEMORIAL FIELD HOUSE, located 10 blocks east of the university, seats 6,250 and is used as Marshall's home basketball court.

FAIRFIELD STADIUM, seating 17,000 is 8 blocks south of the campus and serves as Marshall's football stadium.

UNIVERSITY HEIGHTS CAMPUS comprises 185 acres 4 miles east of the main campus. It provides space for married student housing, field research, recreation, and will be further developed for the academic program.

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

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

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

SCHOOL OF BUSINESS, located at 1616 Fifth Avenue.

CENTER FOR STUDENT SERVICES, located at 1618 Fifth Avenue.

CAREER PLANNING AND PLACEMENT, located at 1620 Fifth Avenue.

NURSERY, located on the first floor at 1636 Fifth Avenue. Offices for federal programs are located on the second floor.

COMPUTER CENTER

An IBM data processing system was installed on the campus in 1964. The Computer Center consists of the 1620 computer unit, plus auxiliary equipment, and several accounting machines. The center is used for university administration, research, and courses of instruction in computer language and computer operation.

DEVELOPMENT AND ALUMNI AFFAIRS

The Office of Development and the Office of Alumni Affairs coordinate

activities of the Marshall University Alumni Association and the Marshall University Foundation, Inc. The alumni association coordinates alumni activities and alumni support for the University; the Marshall University Foundation secures financial aid to supplement state appropriations for general operations and capital improvements.

The Marshall University Foundation, Inc.

The Marshall University Foundation, Inc., a nonprofit corporation chartered by the state of West Virginia in 1947, receives and holds in trust real and personal property that is given, devised, bequeathed, given in trust, or in any way assigned for use by Marshall University, any student, or any professor to carry out university work, teaching, or research. The corporation invests and dispenses all monies received and manages, administers and controls all property received according to the specifications established by the donors.

The Foundation is governed by a 21-member board of directors which includes representatives of the administration, faculty, alumni, and four members of the community without reference to their affiliation with the university or alumni association.

For purposes of the foundation, university needs are grouped into five general projects: scholarships and fellowships, library improvements, research, the president's fund for general undesignated aid, and capital funds.

Contributions, which may be made to any of the specific projects, should be made payable to The Marshall University Foundation, Incorporated, and should be sent to the secretary of the foundation, Marshall University, Huntington, West Virginia 25701.

The Marshall University Alumni Association

To provide communication and additional services to university alumni, the Marshall University Alumni Association maintains names and addresses of some 30,000 former students. Alumni publications include **The Marshall Alumnus**, a magazine. The Marshall Loyalty and Development Fund, receiving agency for annual alumni gifts to the university, is centered and serviced here. All Marshall alumni events (Alumni Day and Homecoming), projects and chapter activities are administered through this office.

MARSHALL UNIVERSITY LIBRARY

The Marshall University Library is housed in the James E. Morrow Library Building. Library facilities are open to university students, faculty, and staff. Permission for use of the facilities is also extended to others in the Huntington area when such use does not specifically interfere with use by those in the university community. Arrangements have been made with the Huntington Public Library to provide for cooperation in making the facilities of both collections available when necessary.

The library contains approximately 200,500 volumes, and more than

1,200 current periodicals are received regularly. The library is a designated depository for U.S. Government documents. Several special collections are available for reference use.

AUDIOVISUAL CENTER

The audiovisual program at Marshall University aids the university faculty in selecting and utilizing audiovisual aids, and trains teachers and prospective teachers in the use of all types of audiovisual materials, equipment, and techniques. Courses and workshops in audiovisual education are offered at the university and in extension centers throughout the state.

RADIO STATION WMUL

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

WMUL-TV

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

SHAKESPEARE ROOM

Located in the Marshall University Library, displays feature a model of the "Globe" theater, costumes from Shakespeare's plays, and other artifacts relating to the life of the "Bard".

This facility is unique in the nation, and offers opportunities for study and research.

GEOLOGY MUSEUM

The university geology museum contains a collection of more than 5,000 geological specimens gathered from around the world, state and area. The museum is located in the Science Building, as part of the Department of Geology. It is the only one of its kind in 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 four divisions of activity:

Community Artists Series, Student Artists Series, Community Forum, and Convocations. Marshall University students with Activity Cards may attend any attraction at no cost. Inquiries should be addressed to: Marshall Artists Series, Inc., Marshall University, Huntington, W. Va. 25701.

Admission

GENERAL ADMISSION PROCEDURE

All high school and transfer students 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 Assistant Dean of Students for 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 WEST VIRGINIA HIGH SCHOOL GRADUATES

To be eligible for admission from an approved West Virginia high school, the applicant must have graduated with a minimum of 17 units and rank in the upper three-fourths of the high school graduating class and have a satisfactory recommendation from his high school principal. West Virginia high school

graduates who rank in the lower quarter of their class may be admitted if they attain a composite score of 14 or above on the American College Test (ACT). The following high school units are required for admission by the West Virginia Board of Regents:

English—four units

Must be basic English with no substitutes such as speech, journalism, drama or library.

Science—two units

One of which must be biology. The second unit must be basic science such as general science, chemistry, physical science, physics, etc.

Mathematics—two units

One of which must be algebra.

Social Studies—three units

One of which must be American history.

Health and Physical Education—one unit

Unless waived by the high school principal upon written recommendation of a physician.

Foreign language—Two units recommended but not required.

The two units should be in the same language.

Students who are deficient not more than two subjects in the required course pattern, and not more than one in the same area, may be eligible for admission if they rank in the upper half of their graduating class and attain a score of 17 or above on the American College Test (ACT) or a total score of 800 on the College Entrance Examination Board (CEEB).

Under exceptional circumstances the above requirements may be waived.

NOTE: Those who have graduated from West Virginia high schools before 1961 are automatically eligible for admission to Marshall University.

Veterans of one year or more who have graduated from West Virginia high schools and have not attended college level work are also automatically 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 a personal interview, and entrance into the music program requires an audition. Candidates for these programs should consult with the appropriate departmental chairman.

It is recommended that students interested in earning certain degrees have units in addition to those required or recommended above:

Associate in Science or Bachelor of Science degree and pre-professional students— one unit of plane geometry.

Bachelor of Science in Chemistry degree—additional one unit 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.

Bachelor of Science in Civil Engineering and Bachelor of Engineering Science degrees—recommended mathematics: algebra, plane and solid geometry, trigonometry, analytical geometry, and an introduction to calculus through the equivalent of Mathematics 180. One unit of chemistry and one unit of physics are also recommended.

ADMISSION OF NONRESIDENT HIGH SCHOOL GRADUATES

Applicants whose legal residence is in a state other than West Virginia may be granted admission if they rank in the upper half of their graduating classes, meet the high school subject matter pattern as required for resident students, and have the recommendation of the high school principal or counselor. Students in the lower half of their high school graduating class may be admitted if they present adequate scores on the American College Test (ACT). Students who are deficient not more than two subjects in the requires course pattern, and not more than one in the same area, may be eligible for admission if they rank in the upper half of their graduating class and attain a score of 17 or above on the American College Test (ACT) or a total score of 800 on the College Entrance Examination Board (CEEB).

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

* 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.

to or above the academic standing required of a student in good standing at Marshall University.

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. New students attending Marshall University's Summer Session will not be eligible for advanced registration during the September orientation period for new freshmen.

ADMISSION OF PART-TIME STUDENTS

Part-time students must meet the same entrance 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.

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-.

Graduates whose scholastic average is A- (3.75) or above are admitted with honors.

THE AMERICAN COLLEGE TEST

Marshall University requires the American College Test (ACT) for the placement of all freshmen. 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 and School of Business. 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.

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+ (2.5) average or better on at least 12 units of the college bound curriculum at the end of 6 semesters of high school work, but final admission is not granted until after graduation from high school and the submission of the official high school record. Provisional admission is also granted to high school seniors during the second semester of their senior year. Final admission is granted after receipt of the final high school transcript.

ADMISSION OF SUPERIOR AND TALENTED HIGH SCHOOL STUDENTS

The university admits a limited number of outstanding high school students who have completed the junior year. This program permits superior 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 take a course 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 the college bound curriculum of his high school.
2. Have a B+ (3.50) or better average on high school subjects in the college bound curriculum.
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 08540. 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.

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.

The International Student Advisor is Dr. Robert P. Alexander. International students at Marshall University should address questions regarding their immigration status to: Office of the United States Immigration and Naturalization Service, Pittsburgh, Pennsylvania.

ORIENTATION PROGRAM

The orientation program is designed to acquaint the new student with Marshall University, give him a chance to meet his academic advisor, and enable him to participate in registration. Orientation is held during the summer and in September. An invitation to this program is extended by the coordinator for orientation and specific questions should be directed to him.

Academic Information

FACULTY-STUDENT ADVISORY PROGRAM

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

SEMESTER HOURS

The semester hour is the basis of college credit within the institution. A semester hour is the credit received for passing a subject taken one hour per week for one semester.

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

STUDENT SCHEDULES AND COURSES

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

3. **FULL TIME STUDENT DEFINED.** A student carrying at least 12 semester hours in a regular semester, four semester hours in a single summer term. To qualify for full veterans' benefits, a student must carry at least 14 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. Incomplete, given to students who miss some of the last exercises of class work because of illness or some other valid reason beyond the control of the student. When the work missed is done satisfactorily, the final grade may be any one of the four passing marks. If a deficiency represented 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 TEACHER CERTIFICATION AND GRADUATION

Quality points are based on the following quality point values for each semester hour 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 quarter, semester, or summer term when he has attempted a total of 60 semester hours, and if he repeats this course one time only, first grade shall be disregarded for the purpose of determining the student's quality point average and the grade earned the second time this course is taken shall be used in determining his grade point average.
- c. This regulation shall be effective only for students entering upon college study for the first time in the fall term of 1968 and thereafter.
- d. The first grade recorded shall not be deleted from the student's record, and the second grade shall be entered adjacent thereto.

-Approved by the West Virginia Board of Education August 26, 1968.

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 his quality point standing and his 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 FROM THE UNIVERSITY

Official Withdrawal From Courses or From the University:

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

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

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

1. Students withdrawing before the final week of classes or withdrawing passing during the final week of classes will receive a grade of W. Not considered in determining the quality point average.
2. Students withdrawing during the final week of classes will receive a grade of WF if failing. No quality points.
3. Official withdrawals during the last week of classes and the examination period of a regular semester or the last week of a summer term are not permitted except in cases of extreme

emergency beyond the control of the student. Withdrawals in this period will be permitted only through personal conference with the academic dean.

4. Men and women called to the armed services of the United States shall be granted full refund of fees, but no credit, if the call comes before the end of the first three-fourths of the term, and full credit but no refund of fees, shall be granted if the call comes thereafter; provided, however, that credit as described above will be granted only in those courses in which the student is maintaining a passing mark at the time of his or her departure to military service. In recording the final grades for three-fourths of a term or more, both passing and failing grades are to be shown on the student's permanent record card.

Irregular Withdrawal From Courses or From the University:

Students who drop out of one or more courses without permission and who do not follow regulations provided in the preceding paragraphs receive 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 for his classes. 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 that semester. The statement is filed with the chairman of his 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 his 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 his instructor. For such excused absences, the students should not be penalized.

ACADEMIC PROBATION

1. A student who is classified as a freshman or sophomore and has a deficiency of 10 or more quality points is on academic probation.
2. A student who has attained junior standing and has less than a 2.0 average is on academic probation.
3. A student returns to good academic standing when he meets the quality point average required for his classification.

INELIGIBILITY FOR SCHOLASTIC DEFICIENCIES

Students are subject to the regulations of the university. For failure to comply with such regulations, a student may be suspended or expelled 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 regular academic year or he may be dismissed from the university.
2. Any student who has a deficit of 20 or more quality points and who did not receive better than a 2.0 on all work attempted during the semester in which he last registered must be declared ineligible to attend during the regular academic year (First and Second Semesters).

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 attend either or both of the summer sessions to improve his academic standing. As quickly as he has reduced his quality point deficiency to fewer than 20 he may seek enrollment in the First and/or Second Semester. Each college reserves the right to determine a maximum deficiency quality point of less than 20. A student who is ineligible to attend the regular academic year may attend one or both summer sessions and take one or more

courses. The courses he selects must be either required by the university for graduation or in accord with the student's chosen academic program. A student who fails to reduce his quality point deficiency to fewer than 20 but who reduces his quality point deficiency by six or more points at the conclusion of the second summer session may petition his dean for possible special readmission for the fall semester. If the student's academic standing continues to deteriorate rather than improve, he will be subject to permanent 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.

TRANSFER FROM ONE COLLEGE TO ANOTHER

A student who is eligible and enrolled in any college of Marshall University is eligible at any time for transfer to another college within the university. Once he is transferred to the new college of his choice, he will be subject to the eligibility requirements of that college.

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.

Candidates for bachelor's degrees who entered 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 his 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 his being excused, is entered in his 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.

VETERANS PHYSICAL EDUCATION CREDIT

Students who are veterans with at least one year of military service, and who have completed at least twelve 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 upon the request of the veteran.

STUDY YEAR ABROAD

Basel, Switzerland; Verona, Italy

Through its membership in the Regional Council for International Education, Marshall University offers the opportunity for a unique foreign study experience in Europe. Two academic year abroad programs sponsored by the regional council offer curriculums designed for the undergraduate student majoring in any one of a number of fields.

The study year in Basel, Switzerland, focuses the student's attention on the development of modern Europe with emphasis on the phenomena of nationalism and internationalism as two opposing currents which have characterized Europe in modern times. In Verona, Italy, the focus of study is on the humanistic aspects of the western tradition, the major strain of which stems from Italy.

Each program provides a course of intensive language study for acquiring speaking ability as quickly as possible and a good working knowledge of the language by the end of the sojourn. Each student is required to live and take meals with a Swiss or Italian family, thus sharing a genuine foreign language situation every day and combining his language learning with his other academic and intercultural experiences.

STUDY YEAR IN BASEL

Course Listings

- I. Preterm - German Language and Orientation - 3 hrs.
- II. First Term (Minimum 15 hrs. credit)
 - European Nationalism and Internationalism - 3 hrs.
 - Seminar in Modern European Political Thought I - 3 hrs.
 - The Dynamics of European Art I - 3 hrs.
 - Main Currents in Modern European Literature I - 3 hrs.
 - The Sociology of Europe - 3 hrs.
 - Political Patterns of Modern Europe I - 3 hrs.
 - Directed Study - 3 hrs.
 - Introductory German - 3 hrs.
 - Intermediate German - 3 hrs.
 - Advanced German - 3 hrs.
 - Advanced French - 3 hrs.
 - French Honors - 3 hrs.
- III. Second Term (Minimum, 15 hrs. credit)
 - Europe Between Integral Nationalism and Unification - 3 hrs.
 - Seminar in Modern European Political Thought II - 3 hrs.
 - The Dynamics of European Art II - 3 hrs.
 - Main Currents in Modern European Literature II - 3 hrs.
 - Economic Patterns in Europe - 3 hrs.
 - Political Patterns in Europe II - 3 hrs.
 - Directed Study - 3 hrs.
 - All language courses, continued - 3 hrs.

STUDY YEAR IN VERONA

Course Listings

- I. Preterm - Italian Language and Culture I - 4 hrs.
- II. First Term
 - The Italian Renaissance - 3 hrs. Required.
 - The Art of Italy - 3 hrs. Required.
 - Italian II - 6 hrs. Required.
 - Choose one:
 - The Literature of the Renaissance - 3 hrs.
 - History of the Veneto - 3 hrs.
 - University of Verona - 3 hrs.
- III. Second Term
 - History and Society of Modern Italy - 3 hrs. Required.
 - Italian III - 3 hrs. Required.
 - Directed Study - 3 hrs. Required.
 - Choose one:
 - Seminar in Italian Literature - 3 hrs.

Seminar in Italian History - 3 hrs.

Seminar in Art History - 3 hrs.

University of Verona - 3 hrs.

Courses at Basel and Verona are conducted in English under the supervision of a resident American dean and follow the instructional mode to which the American student is accustomed, but in a European setting. Planned social activities, study trips, and excursions are covered by tuition, unless on an optional basis.

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

Fees and Costs:

For Basel and Verona, 1971-72:

\$2,690 (including room and board, tuition, program-related excursions, transportation from New York to site of the program, not return transportation to the United States) \$700 minimum (for personal expenses: books, incidentals, personal traveling, etc.)

Application:

Catalogs and form available, Office of Academic Affairs, Old Main 110. Transfer of credits should be discussed with faculty adviser and academic dean.

Application forms should be sent to:

Regional Council Study Year Abroad
1101 Bruce Hall, University of Pittsburgh
Pittsburgh, Pennsylvania 15213

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

AUDIT AND NONCREDIT COURSES

An audit student is one who enrolls as an observer or listener only. Auditing is allowed only when there is space available in the class and the academic dean having jurisdiction over the course authorizes audit status. Enrollment for audit is limited to the regular registration period for the semester or term. Students who want to audit classes must enroll and pay fees in the same manner and at the same tuition rate as students enrolling for credit. Audit students receive no credit. Faculty members wanting to audit courses must secure approval of their dean and the instructor of the course or courses desired and must enroll in the regular manner for such courses.

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

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 must have earned at least 72 hours of work at Marshall University.
2. All work completed by a student at Marshall University is included in determining graduation with honors.
3. 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 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.

*Includes students in combined college and professional courses as well as students transferring from another institution.

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

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

All requests for transcripts must be sent directly to the registrar.

Transcripts are prepared in the order received.

ACADEMIC PUBLICATIONS OF THE UNIVERSITY

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

Fees and Expenses

Enrollment fees are due and payable when invoices are rendered to the student from the Office of Business and Finance. Invoices will be sent to the students home address. Payment may be mailed or paid in person to the cashier, Old Main Building. Payment must be received by the cashier by the due date, which is reflected on the invoice. Failure to pay fees by the due date may result in dismissal from the university. Enrollment fees accepted by the cashier after the due date are subject to the late registration fee. Every student who registers incurs a financial obligation to the university. Official withdrawal or administrative cancellation of a registration for nonpayment of fees does not eliminate the obligation. Failure to pay enrollment fees does not automatically relieve the student of his responsibility to withdraw properly and officially from the university through his academic dean or branch college director. Students dropping courses from their original schedule or withdrawing completely from the university will not be allowed to deduct the amount from the original invoice. They must pay the invoice for the original number of hours. Refunds will be granted under the regular university policy for refunding fees. When withdrawals occur without prior payment of fees, a pro-rate percentage of the amount of fees due shall be payable to the cashier on the date of withdrawal. The student must pay for the time incurred in class up until the date of the withdrawal.

Students who are recipients of financial aid through the university's Director of Student Financial Aid, the university's Department of Athletics, a private loan or scholarship or any governmental agency must accept the responsibility of delivering the invoice to their source of financial assistance and providing the cashier with payment or proper arrangements for payment by the due date. If a funding agency requires additional copies of this invoice or a different type of invoice, the student should contact the cashier.

Faculty, staff and graduate assistants, who are eligible for a waiver of tuition should contact the cashier for fee remissions.

Students who receive aid through vocational rehabilitation must obtain an authorization for fees from their funding agency. The authorization must be received by the cashier on or before the due date.

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

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

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

A student who owes a financial obligation to the university may not be permitted to take final examinations or enroll in subsequent semesters until the obligation is paid.

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

ENROLLMENT FEES

REGULAR SEMESTER, FULL-TIME STUDENTS, MAIN CAMPUS
12 or more hours

	Resident of West Virginia	Nonresident*
Tuition Fee	\$ 25.00	\$175.00
Registration Fee	50.00	200.00
Student Activity-Services Fee	63.50**	63.50**
Nonresident undergraduate Student Service Fee	<u> </u>	<u>100.00</u>
Total Enrollment Fee	\$138.50	\$538.50

REGULAR SEMESTER, PART-TIME STUDENTS
(Less than 12 hours)

West Virginia Resident

Hours	Tuition	Registration	Student Activity-Services***	Total
1	\$ 5.00	\$ 4.00	\$14.00	\$23.00
2	8.00	8.00	15.00	31.00
3	10.00	12.00	16.00	38.00
4	13.00	16.00	17.00	46.00
5	16.00	20.00	18.00	54.00
6	19.00	24.00	19.00	62.00
7	22.00	28.00	20.00	70.00
8	25.00	32.00	21.00	78.00
9	25.00	36.00	22.00	83.00
10	25.00	40.00	23.00	88.00
11	25.00	44.00	24.00	93.00

*NONRESIDENT FEES shall apply to those students who are legally domiciled in states other than West Virginia. The official domicile of a minor is that of his or her parents or legal guardian.

**THE STUDENT ACTIVITY-SERVICES FEES are allocated as follows: Convocations and Forums \$1.50; Athletics \$11.90; Artists Series \$3.75; Chief Justice \$2.40; University Theatre \$.50; Parthenon \$3.00; Student Government \$3.00; Student Union \$18.00; Music Organizations \$1.00; Radio Station WMUL \$.25; Debate \$.15; Identification Card \$.25; Health Service \$8.50; Women's Intercollegiate Activity \$.20; Intramural Sports \$.25; Student Relation Center \$.25; and Laboratory and Course Fees \$8.60.

A special activity card for the use of the spouse of a full-time student costs \$20.00 and covers: Athletics (\$12.50), Convocations and Forums (\$1.50); Artists Series (\$5.00) and I.D. Card (\$1.00).

***I.D. Card \$.25; Student Union \$5.00; Health Service \$8.50; balance to Laboratory and Course Fees; a student activity card is available to part-time students for \$40.00.

Nonresident

Hours	Tuition	Registration	Student Activity-Services*	Undergraduate Student Service	Total
1	\$ 15.00	\$ 17.00	\$14.00	\$ 8.25	\$ 54.25
2	30.00	34.00	15.00	16.50	95.50
3	45.00	51.00	16.00	24.75	136.75
4	60.00	68.00	17.00	33.00	178.00
5	75.00	85.00	18.00	41.25	219.25
6	90.00	102.00	19.00	49.50	260.50
7	105.00	119.00	20.00	57.75	301.75
8	120.00	136.00	21.00	66.00	343.00
9	135.00	153.00	22.00	74.25	384.25
10	150.00	170.00	23.00	82.50	425.50
11	165.00	187.00	24.00	90.75	466.75

**SUMMER TERM (5 WEEKS) FULL-TIME STUDENTS
(4 or more hours)**

West Virginia Resident

Hours	Tuition	Registration	Student Activity-Services**	Total
4	\$15.00	\$16.00	\$19.00	\$50.00
5	15.00	20.00	19.00	54.00
6	15.00	24.00	19.00	58.00
7	15.00	28.00	19.00	62.00
8	15.00	32.00	19.00	66.00

Nonresident

Hours	Tuition	Registration	Student Activity Services**	Undergraduate Student Service	Total
4	\$58.00	\$ 68.00	\$19.00	\$33.00	\$178.00
5	58.00	85.00	19.00	41.25	203.25
6	58.00	102.00	19.00	49.50	228.50
7	58.00	119.00	19.00	57.75	253.75
8	58.00	136.00	19.00	66.00	279.00

*I.D. Card \$.25; Student Union \$5.00; Health Service \$8.50; balance to Laboratory and Course Fees; a student activity card is available to part-time students for \$40.00.

**Summer Convocations and Forums, \$.50; Student Union \$5.00; Parthenon \$.50; Health Service \$4.00; I.D. Card \$.25; and Laboratory and Course Fees \$8.75.

**SUMMER TERM (5 WEEKS) PART-TIME STUDENTS
(Less than 4 hours)**

West Virginia Resident

Hours	Tuition	Registration	Student Activity Services*	Total
1	\$ 5.00	\$ 4.00	\$10.00	\$19.00
2	8.00	8.00	11.00	27.00
3	10.00	12.00	12.00	34.00

Nonresident

Hours	Tuition	Registration	Student Activity Services*	Undergraduate Student Service	Total
1	\$15.00	\$17.00	\$10.00	\$ 8.25	\$ 50.25
2	30.00	34.00	11.00	16.50	91.50
3	45.00	51.00	12.00	24.75	132.75

ENROLLMENT FEES - EXTENSION DIVISION

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

ENROLLMENT FEES - BRANCHES

\$15.00 per semester hour for hours one through eight; nine hours or more \$125.00 payable on the date of registration.

DORMITORY FEE

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. Because the residence halls have been constructed with borrowed funds, a stability of income must be maintained. The residence hall contract, therefore, is a means of insuring facilities for a large number of students to eat, sleep, study, and benefit from group living at the lowest possible cost.

*I.D. Card \$.25; Student Union \$5.00; Health Service \$4.00; balance to Laboratory and Course Fees.

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.

All housing applications and contracts for residential accommodations received prior to July must be **accompanied by a non-refundable deposit of \$25.00**. The deposit will be credited toward the initial room and board bill. The university's acceptance of a deposit for housing does not constitute a guarantee of admission to the university. In addition, a \$25.00 damage deposit is required of all dormitory residents. The deposit will accompany the first quarterly dormitory payment. All applications received after July 1 must be **accompanied by the first quarterly dormitory payment and damage deposit**.

Cancellation of a room reservation on or after the first day of classes of any semester will result in the forfeiture of the prepaid quarterly dormitory fee. Cancellation of a room reservation after the payment due date of the second and fourth quarterly dormitory fees will likewise result in the forfeiture of the prepaid quarterly dormitory fee.

Meals are available 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. Students must present their I.D. card (properly validated) with receipt of dormitory fee payment to the Director of Food Service and their respective dormitory director. Students must take their meals in the dining hall assigned by the Director of Food Service.

NOTE: No deduction or refund is made in food service charges unless the student is absent from the campus for more than a calendar week because of personal illness or a university-approved trip. No deduction or refund is made in room charges for absences. Reservations for housing may be made through the Assistant Dean of Students for Housing.

RATES

Regular Semester

Twin Towers (and private rooms in other residence halls.)

\$534.00 (including \$15.55 West Virginia State Consumers Sales Tax) per semester (room and board) or \$267.00 per quarterly installment.

South Hall, Hodges Hall, West Hall, Prichard Hall and Laidley Hall

\$514 (including \$14.97 West Virginia State Consumers Sales Tax) per semester (room and board) or \$257.00 per quarterly installment.

Summer Terms

Twin Towers (room and board)

\$154.00 (including \$4.49 West Virginia State Consumers Sales Tax) per 5 week term (double room)

Private rooms \$166.00 (including \$4.84 West Virginia State Consumers Sales Tax) per 5 week term.

Note: \$25.00 deposit must accompany applications.

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 \$55.00 to \$120.00 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.

Rates are subject to change without prior notice as economic conditions warrant.

ESTIMATE OF EXPENSES AND DATES PAYMENTS DUE

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

	W. Va. Resident	Nonresident
*Enrollment Fee	\$138.50	\$ 538.50
**Dormitory Fee	514.00	514.00
***Books, supplies	<u>65.00</u>	<u>65.00</u>
	\$717.50	\$1,117.50

Note: Add \$20.00 for students residing in Twin Towers Dormitory or private rooms

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

**Dormitory Fee: Payments may be paid in four equal installment for the academic year. The due date for the first quarterly installment is July 1. All applications and nonrefundable deposits received prior to July 1 will receive \$25.00 credit toward the first quarterly installment. All applications received after July 1 must be accompanied by the entire first quarterly payment. The second, third, and fourth installments are due on September 15, December 1 and February 15. Invoices will be mailed from the Assistant Dean of Students for Housing.

Dormitory Fee: per summer term of 5 weeks. The cost of the dormitory fee per 5 week summer session if \$154.00 (private rooms \$166.00). A \$25.00 deposit must accompany the application. Balance due on notice from the Assistant Dean of Students for Housing.

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

SPECIAL FEES

Late Registration Fee (Nonrefundable)

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

Graduation Fees

Associate Degree	\$ 5.00
Baccalaureate Degree	5.00
Graduate Degree	10.00

Cap and Gown Rental Fee

Associate Degree	\$ 3.50
Baccalaureate Degree	3.50
Graduate Degree	8.00

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

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

Transcript Fees

Each student receives the first transcript without charge. A charge of \$1.00 is made for each additional transcript.

Handling fee for checks returned by bank unpaid	\$ 5.00
Identification card replacement fee	\$ 5.00
Postage fee for mailing yearbook to graduating seniors	\$.65
Special fee for activity card for the use of the spouse of a full-time student	\$20.00
Key deposit - dormitory rooms	\$ 1.50
Reservation deposit dormitory rooms	\$25.00
Damage deposit - dormitory rooms	\$25.00
Kindergarten enrollment fee	\$31.00

Nursery School enrollment fee \$60.00

Library charges:

1. Photographic Services
 - a. Xerox copies 9½" x 14" - per exposure \$.10
 - b. Negative photostat 9½" x 11" - per copy \$ 1.00
 - c. Negative photostat 18" x 24" - first copy \$ 2.00
 each additional copy \$ 1.50
 - d. Micro Film negative 25mm - per exposure \$.08
 Minimum charge \$ 3.00

2. Overdue books and materials
 - a. Two week books - \$.05 per calendar-day (grace period first five days books are overdue) charge begins with \$.25 on fifth day plus \$.05 per day thereafter.
 - b. Reserve books and reference materials \$.25
 first hour plus \$.10 per hour or portion of an hour (computed for all hours library is open except Sundays.)
 - c. Lost and damaged books - estimated replacement cost of books (list price of in-print book).

REMISSIONS OF TUITION AND REGISTRATION FEES

1. Full-Time Faculty

Tuition and registration fees are waived for full-time members of faculties of any accredited college in West Virginia who register for graduate study at Marshall University. Accreditation shall be by the North Central Association of Colleges and Secondary Schools. The graduate courses enrolled for and the request for waiver of fees shall be approved by the Dean of Graduate School. THE STUDENT ACTIVITY-SERVICE FEE IS NOT WAIVED AND MUST BE PAID.

2. Non-Academic Personnel

Tuition and registration fees are waived for non-academic personnel at Marshall University and the state colleges who have been in the employ of the institution for 12 months or more at the time of application for admission. This waiver is not to exceed six semester hours, and the request for this work shall be approved by the applicant's immediate supervisor and the appropriate academic dean. THE STUDENT ACTIVITY-SERVICES FEE IS NOT WAIVED AND MUST BE PAID.

3. Graduate and Teaching Assistants

Tuition and registration fees are waived for graduate and teaching assistants, approved by the Dean of Graduate School. THE STUDENT ACTIVITY-SERVICES FEE IS NOT WAIVED AND MUST BE PAID.

The cost of the Student Activity-Service Fee applicable to the three foregoing enrollment plans may be obtained from the cashier or by the reference to pages 63 and 64.

4. Higher Education Personnel

Full-time employees of the West Virginia Board of Regents and the institutions under its jurisdiction, full-time ROTC personnel assigned to the institutions, and their spouses and dependent children shall be considered West Virginia residents for the purpose of the payment of tuition and fees.

5. Fees for Auditing Courses

- a. Full-time staff members may audit courses without charge. All full-time staff members wanting to audit courses must secure the approval of their dean and the instructor of the course or courses they want to audit. It will also be necessary for them to enroll in the regular manner for such courses.
- b. Non-staff members who audit classes must enroll and pay fees in the same manner and at the same tuition rate as students enrolling for credit.

REFUND OF FEES

I. Withdrawal from the university *Enrollment, Tuition and Registration Fees*

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

	Main Campus and Extension Division	Branches
First Regular Semester		
1st period of refunds-August 24-September 6, 1971	90%	50%
2nd period of refunds-September 7-September 20, 1971	70%	25%
3rd period of refunds-September 21-October 4, 1971	50%	10%
After October 4, 1971 - No refund.		
Second Regular Semester		
1st period of refunds-January 11-January 24, 1972	90%	50%
2nd period of refunds-January 25-February 7, 1972	70%	25%
3rd period of refunds-February 8-February 21, 1972	50%	10%
After February 21, 1972 - No refund.		

When a student withdraws from the university without prior payment of enrollment fees, a pro-rate percentage of the fees due shall be due and payable to the cashier on the withdrawal date. Pro-rate percentages are: 10%, when withdrawals occur within 1st period of refunds; 30%, when withdrawals occur

within 2nd period of refunds; 50%, when withdrawals occur within 3rd period of refunds; 100%, when withdrawals occur after 3rd period of refunds.

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

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

Dormitory Fee: First Regular Semester: Cancellation of room reservation prior to August 26, 1971, the first day of classes, will result in a refund of the dormitory fee less the \$25.00 deposit. Cancellation of a room reservation on or after the first day of classes will result in the forfeiture of the prepaid quarterly dormitory fee. Cancellation of a room reservation on or after September 15, 1971, the payment due date of the second quarterly dormitory fee, will likewise result in the forfeiture of the prepaid quarterly dormitory fee.

Second Regular Semester: Cancellation of room reservation prior to January 13, 1972, the first day of classes, will result in the refund of the dormitory fee less the \$25.00 deposit. Cancellation of a room reservation on or after January 13, 1972, the first day of classes, will result in the forfeiture of the prepaid quarterly dormitory fee. Cancellation of a room reservation on or after February 15, 1972, the payment due date of the fourth quarterly dormitory fee will likewise result in the forfeiture of the prepaid quarterly dormitory fee.

II. Withdrawals due to administrative action

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

III. Food Service Plan

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

IV. Refunds to students called to armed services

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

V. Special fee refunds

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

VI. Late fees are nonrefundable

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

The West Virginia Board of Regents at its meeting February 2, 1971, 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 the Fall semester of 1971:

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 registrar or other officer designated by the president. The decision shall be based upon information furnished by the student and all other relevant information. The registrar is authorized to require such written documents, affidavits, verifications, or other evidence as are deemed necessary to establish the domicile of a student, including proof of emancipation, adoption, award of custody, or appointment of a guardian. The burden of establishing that a student is exempt from paying the nonresident tuition and fees is upon the student.

If there is a question as to residence, the matter must be brought to the attention of the registrar 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 dismissal from the college.

For purposes of resident and nonresident classifications, the word "parents" as herein used shall include legal guardians.

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. West Virginia domicile is presumed to be established upon the completion of at least twelve months of continued residence within the state prior to the date of first registration, provided that such twelve months residency is not for the purpose of attendance as an undergraduate or graduate student at any institution of learning in West Virginia.

Establishment of West Virginia domicile with less than twelve months residence prior to the date of first registration must be supported by proof of positive and unequivocal action such as the purchase of a West Virginia home, establishment of a permanent place of residence, full-time employment within the state, and assessment of property tax. Proof of one or more of these actions shall be considered only as evidence which may be used in determining whether or not a domicile has been established.

There must be no intent on the part of the person involved to return to another state or country.

Minors - 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.

An unemancipated minor student loses resident status twelve months after his parents have ceased to maintain a domicile in West Virginia.

Emancipated Minor - An emancipated minor may be considered as an adult in determining residence, provided satisfactory evidence is presented that his parents, or legal guardian, if living, do not contribute to his support and do not claim him as a dependent for federal government 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.

An emancipated minor, orphan, or abandoned child who has been domiciled in West Virginia for at least one year following his emancipation and next preceding the date of registration may be classified as a resident for tuition and fee purposes.

Students Over Twenty-one Years of Age - A resident student twenty-one years of age is (1) one whose parents were residents of the state at the time he reached his majority and who has not acquired a domicile in another state, or (2) who, while an adult, has established a bona fide domicile in the State of West Virginia. Bona fide residence in West Virginia means that the student must not be in the state primarily to attend a college 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 twenty-one years while a student at any school or college in West Virginia does not by virtue of such fact attain residence in this state for admission or tuition and fee payment purposes.

A student who is classified as a resident at the time that he reaches the age of twenty-one shall continue to be classified as a resident provided that he retains a domicile in West Virginia and that he does not establish a domicile, or legal residence, in another state.

Marriage - The residence of a married woman is determined by the rules which would apply to her husband if he were to seek enrollment, except that a woman who would have been classified as a West Virginia resident immediately prior to her marriage may continue to be classified as a West Virginia resident if she continued to be domiciled in the state.

Military - An individual who is on active federal 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 he had established domicile in West Virginia prior to entrance into federal service, that he entered the federal service from West Virginia, and that he has at no time while in federal service claimed, or established, a domicile in any other 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.

Aliens - An alien who has entered the United States on a resident visa, or who has taken out first papers for citizenship, and who has established a bona fide residence in West Virginia by living in the state for at least twelve consecutive months immediately preceding registration may be eligible for resident classification, provided he is in the state for purposes other than to attempt to qualify for resident status as a student.

Higher Education Personnel - Full-time employees of the West Virginia Board of Regents and the institutions under its jurisdiction, full-time ROTC personnel assigned to the institutions, and their spouses and dependent children, shall be considered West Virginia residents for the purpose of the payment of tuition and fees.

Appeal Process - The decisions of the Registrar or other 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. The appeal will be reviewed by the State Committee on Residency which shall make recommendations to the Board for final decision. The members of the State Committee on Residency shall be appointed by the Board of Regents.

Adopted: West Virginia Board of Regents
February 2, 1971

Division of Continuing Education

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.

EXTENSION CLASSES

Extension classes are offered for teachers and others who cannot be in residence. Credit or noncredit courses in several fields are offered on a semester basis. Not more than 28 semester hours are acceptable toward an undergraduate degree and 12 hours toward a master's degree. Not more than six semester hours may be earned during a semester nor more than 12 semester hours within one year. (This applies to public school teachers under contract in the state.) The quality of instruction in extension is on the same level as that of regularly taught classes on the campus since all staff members doing extension are full-time faculty members.

Admission requirements for those who desire credit in extension are set forth below:

Undergraduates

Undergraduates not previously enrolled in Marshall University must furnish the Office of Admissions with official transcripts of credit from other colleges or with transcripts of high school credit and file an application for admission. Those who wish to earn credit to be transferred to other colleges or to renew certificates may satisfy this requirement by having letters of good

standing written from their undergraduate colleges to the Director of Admissions of Marshall University.

Graduate Students

College graduates enrolled for credit in extension courses must do the following before credit can be earned to count toward a degree in Marshall University.

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

Those who wish to earn credit to be transferred to other colleges may enroll for a course by filing a transcript application.

COMMUNITY SERVICES

As a state-supported institution Marshall University recognizes its obligation to provide for the people of West Virginia certain community services in addition to the regular academic programs. Some of the services available upon request are:

Speakers and Programs—The Office of Information and Publications is glad to receive requests for speakers to appear before school, civic and community organizations, scientific societies, service clubs.

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

A limited number of musical and dramatic programs are available for presentation during the year.

School Surveys and Consultant Services—The university provides consultant services and assists in surveys in the field of education and other areas. Counties or groups wanting assistance with such problems as transportation, building programs, curriculum development and other problems of similar nature should request such assistance. The Director of Continuing Education should be informed of the needs and desires of a particular organization or county before the beginning of the semester whenever possible.

Conferences, Workshops, Seminars and Discussion Groups—Marshall University organizes and conducts conferences, workshops, seminars and discussion groups for industrial, educational and other groups in so far as facilities and availability of staff permit.

Student Life

STUDENT LIVING

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

Seven halls of residence are maintained on the campus by the institution, accommodating approximately 2,300 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 national origin.

DORMITORY LIVING EXPENSES

Board and room costs in university dormitories range from approximately \$470.00 to \$497.00 per semester, depending on the facility--a total of approximately \$990.00 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."

CANCELLATIONS AND REFUNDS

Failure to pay the balance of the first installment by September 1 will result in an automatic cancellation of the room reservation. Cancellation of a

room reservation after the first day of classes of any semester will necessitate the forfeit of the room fee for the respective semester. The \$25.00 room deposit will be refunded if a student is declared ineligible to return.

ROOMS

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

Each resident is required to deposit a \$25.00 damage fee with the university. This fee will be refunded at the end of the academic year if no damages are incurred. Students are expected to exercise reasonable care in the use and custody of university property in the residence halls. The cost of repair (to be determined by the Superintendent of Buildings and Grounds) for any unnecessary or careless breakage or damage to a room or furniture is assessed to the responsible student or students.

UNIVERSITY HOUSING POLICY

The following policy pertains to university housing for freshmen and sophomores:

1. All full-time incoming freshmen must live in a Marshall University residence hall their freshman year unless the entering freshman resides with his parents or legal guardian and commutes from that residence to the main campus.
2. In the event that space is available, sophomores may be required to live in a university residence hall.

Exceptions to this policy:

- a. Married students
- b. Students 21 years of age or older

The university maintains three dining facilities available to students offering meals at reasonable prices. All students living in university residence halls are required to purchase their meals through the university dining halls.

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 \$55.00 to \$120.00 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 HEALTH SERVICE

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 basement of Gullickson Hall and is staffed by three physicians, three registered nurses, a laboratory technician and office personnel. The Student Health Service is financed by student fees. For additional information, students should contact the Student Health Service or the Student Personnel Programs Office.

The university's medical examination form completed by the family physician and submitted as part of the admission credentials must be on file in the Student Health Service.

HEALTH INSURANCE

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

Information and application forms can be obtained from the Student Government Office in the University 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.

OFFICE OF CAREER PLANNING AND PLACEMENT

Marshall University provides a placement service for all students and alumni. The main function of the office is to assist Marshall students in securing permanent employment.

The facilities of the office also give students the opportunity to receive employment counseling and to meet with employing officials from all areas of business, industry, education, and federal and state government agencies.

This Office is located at 1620 Fifth Avenue.

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.

Students should familiarize themselves with university policies and regulations as expressed in the Student Handbook. The Student Handbook is available from either the Admissions or Dean of Students Office.

STUDENT GOVERNMENT

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

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.

CULTURAL LIFE

The performing arts, films, lecture authorities, and art exhibits are offered by the Community Artists Series, Student Artists Series, Community Forum, Convocations, University Theatre, the departments of art, history, music, and speech, the University Center, and by the Marshall Arts and Cinema Society.

DEBATE, SPEECH CONTESTS, AND THE SPEAKERS BUREAU

Marshall'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 by the Student Senate and the Dean of Students Office 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.

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

RELIGIOUS LIFE

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

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

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

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

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

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

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

INTRAMURALS

The intramural program at Marshall University is a program of competitive athletics and recreational activities promoted for every student on the campus. The program is sponsored and personally 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, consisting of five faculty members, an alumnus, the Vice President of Business, the Dean of Students, two student representatives and the Director of Athletics who serves as secretary-ex-officio.

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

Dramatic and Forensic Organizations: Alpha Psi Omega—National Honorary in Dramatics; Pi Kappa Delta—National Honorary Debate Society; University Theatre, Speakers Bureau.

Music Organizations: Delta Omicron—National Honorary Society for Women; Phi Mu Alpha Sinfonia—National Honorary for Men.

Religious Organizations: Campus Crusade for Christ; Newman Apostolate (Roman Catholic).

Honor Groups: Alpha Beta Alpha—Library Science; Alpha Delta—Advertising; Alpha Epsilon Delta—Pre-Medical Fraternity; Alpha Kappa Delta—Sociological Society; Alpha Kappa Psi—National Business Administration Fraternity; Alpha Lambda Delta—Scholastic Fraternity for Freshman Women; Chi Beta Phi—National Science Society; D-Rho D-Theta—Engineering; Eta Sigma Phi—Classical Society; Fagus—Leadership for Junior and Senior Women; Theta Sigma Phi—Women Journalism Majors; Gamma Theta Upsilon—National Geography Society; Kappa Delta Pi—Professional Educators; Kappa Omicron Phi—Home Economics National; Kappa Pi—National Art Society; Mu Gamma Sigma—Geology; Omicron Delta Kappa—National Leadership for Junior and Senior Men; Phi Alpha Theta—National Historical Society; Phi Eta Sigma—Scholastic for Freshman Men, National; Phi Mu Alpha Sinfonia—National Honorary for Men; Phi Mu Epsilon—Mathematics; Pi Delta Phi—National French Society; Pi Sigma Alpha—Political Science; Pi Omega Pi—National Society for Business Education Students; Psi Chi—National for Psychology Majors; Scabbard and Blade—Military Science; Sigma Delta Pi—National Society for Spanish Students; The Robe—Leadership Fraternity for Men; Sigma Tau Delta—National English Society; The Order of Omega—Honorary for Fraternity Men.

Special Interest and Professional Groups: Appalachian Interest Group; American Chemical Society; Association of Childhood Education; Black United

- Students; Chess Club; Chief Justice; Classical Association; 4-H Club; German Club; Home Economics Club; Marshall Arts Cinema Society; Le Cercle Francais; Marshall University Engineering Association; Marshall University Student Chapter of American Society of Civil Engineers; Marshall University Student Chapter of American Society of Civil Engineers; Marshall Chapter of Young Americans for Freedom; M.U. Action Committee of F.R.E.E.; Pershing Rifles—Military Science; Pershing Ruffles; Student Nurses Association; Students for a Democratic Society; Undergraduate Alumni Association; Veterans Club; Women's Recreation Association; Young Democratic Club; M.U. College Republican Club.
- Greek Social: Panhellenic Council (governing body for sororities); Interfraternity Council (governing body for fraternities).
- Sororities: Alpha Chi Omega, Alpha Sigma Alpha, Alpha Xi Delta, Delta Zeta, Phi Mu, Sigma Kappa, Sigma Sigma Sigma.
- Fraternities: Alpha Sigma Phi, Kappa Alpha Order, Kappa Alpha Psi, Lambda Chi Alpha, Phi Kappa Tau, Pi Kappa Alpha, Sigma Alpha Epsilon, Sigma Phi Epsilon, Tau Kappa Epsilon, Theta Xi (colony) and Zeta Beta Tau.
- Greek Interest: Crescent Club, Little Delta Iotas, Little Sisters of Minerva, Sister of the Golden Heart, Daughters of the Crimson Rose, Sisters of the Laurel.

Student Financial Aid

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

All forms of financial assistance are administered by the Office of Student Financial Aid consistent with the policies and procedures set forth by the Student Financial Aid Advisory Council. The Student Financial Aid Advisory Council believes that the primary responsibility for financing a college education rests with the student and his family. Financial aid from the university and other sources, therefore, is viewed as supplementary to the efforts of the family. In addition, students requesting financial assistance are usually expected to earn a portion of their college expenses.

SCHOLARSHIPS

Academic Scholarships

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

Athletic Grants-In-Aid

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

Educational Opportunity Grants

Established by the Higher Education Act of 1965, 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 Educational Opportunity Grants Program.

The grants vary from \$200 to \$1,000 per year with a matching amount provided by Marshall University through one or more of the following sources: scholarship; National Defense Student Loan; employment under the College Work-Study Program.

To be considered for an Educational Opportunity Grant, an incoming freshman must demonstrate academic talent or creative promise. These grants

are renewable for each year of undergraduate study (Maximum: one initial year grant and three renewal year grants) provided the student maintains satisfactory academic progress and continues to demonstrate exceptional financial need. Please note that a grant will be renewed only if the student meets the above qualifications and if the financial aid office receives his application for grant renewal before the March 1 deadline date.

Nursing Student Scholarships

Scholarships based on need and academic achievement are available to full-time students in the Department of Nursing under this program established by the federal government.

LOANS

National Defense Student Loans

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

The borrower (and his co-signer, if the borrower is under twenty-one [21] years of age) is required to sign a promissory note payable to Marshall University, and the borrower must subscribe in writing to an oath of affirmation of allegiance to the United States of America.

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

Nursing Student Loan Program

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

Emergency Loans

Full-time students may be granted short-term loans to meet emergency college-related costs. The maximum loan is \$100 and all recipients must sign a ninety (90) day, six per cent (6%) note payable to Marshall University. If the recipient is under the age of 21, he must supply a suitable co-signer.

STUDENT GUARANTEED BANK 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 bank loan program. No Parents' Confidential Statement is required. This program is administered through the student's hometown bank. A student must be a resident of his home state, a citizen or permanent resident of the United States, and a full-time student. Maximum awards in most cases are \$1,500 per year for an undergraduate student and \$2,500 per year for a graduate student. A student from a family with an adjusted income of less than \$15,000 pays no interest while in school, because the 7% interest rate which starts on issuance of the loan will be paid by the federal government. When the period of instruction ends, the student will start repaying the funds borrowed at the approved interest rate set by Congress until the loan is paid in full. Applications are available at hometown participating banks or from the financial aid office.

Out-of-state students should apply through the Guaranteed Student Bank 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. Employment records, grade point averages, and financial need are utilized in reappointments.

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

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

APPLICATIONS

In order to apply for any type of financial aid at Marshall University, a student must have his parents complete a Parents' Confidential Statement (PCS). This PCS should be sent to the College Scholarship Service (CSS) in Princeton, New Jersey. CSS will analyze the PCS and send a Financial Need Analysis Report (FNAR) to Marshall. This FNAR then becomes the student's application 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.

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.

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.

Teachers College

The purpose of the Teachers College 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.

TEACHERS COLLEGE 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 Teachers College. A faculty adviser and the representatives of the academic dean's office direct the student in the program of his choice throughout his college life. Students who are enrolled in another college or school of the university may enroll for three (3) semester hours in the field of professional education if they desire. These students are limited to enrollment in Educational Foundations 218, Human Development.

TEACHERS INSERVICE CREDIT

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

CREDIT FOR COURSES OFFERED BY CORRESPONDENCE, EXTENSION

CREDIT FOR MILITARY SERVICE

CREDIT FOR COURSES OFFERED BY RADIO AND TELEVISION AND THROUGH SPECIAL EXAMINATIONS

Credits earned through these means are accepted up to a maximum of twenty-eight (28) semester hours. Courses are accepted only if such courses are offered by institutions of higher education that are accredited by a regional accreditation association of secondary schools and colleges and the National Council for Accreditation of Teacher Education.

PRE-STUDENT TEACHING LABORATORY EXPERIENCES

All Teachers College students participate in experiences which permit them to observe children or youth in activities which are examples of the

teaching/learning process. These experiences are provided by the public schools of the area as well as by non-school agencies. Students who enroll for these activities must meet the standards of dress and conduct which apply to teachers in the school or staff in the agency to which they are assigned.

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

The first of these activities accompanies Educational Foundations 218, Human Development, and consists of assigned experiences in a non-school community agency. The specific assignment, the nature of the experiences and the length of the experiences are determined by the faculty. The successful completion of these experiences is required for a passing grade in Educational Foundations 218. The second required laboratory assignment for all students is associated with Educational Foundations 319, Human Development. These experiences are provided in an assignment in the public schools. The specific assignment, the nature of the experiences and the length of the experiences are determined by the faculty. 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.

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 Coordinator of Student Teaching 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 Teachers College has a large supply of teacher candidates, it is necessary that students be assigned in Cabell, Jackson, Kanawha, Logan, Mason, Mingo, Wayne, and Wood counties in West Virginia and other selected schools. In all cases the assignment responsibility rests with the Coordinator of Student Teaching 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 Coordinator of Student Teaching 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 Coordinator of Student Teaching 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 and curriculum and instruction 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.)

PROBATION AND INELIGIBILITY

Students are subject to the current regulations of the Teachers College. If such regulations are not complied with, a student may be suspended, expelled, or refused enrollment.

Academic Probation

The probation standards for the Teachers College are as follows:

1. A student who is classified as a freshman or sophomore and has a deficit of ten (10) or more quality points is on academic probation.

2. A student who has attained junior standing (58 semester hours) and has a quality point average of less than 2.0 is on academic probation.
3. A student returns to good academic standing when he meets the quality point average required for his classification.

Ineligibility for Grade Deficiencies

Students in the Teachers College are subject to the current regulations governing probation, ineligibility and re-admission. The maximum number of deficient quality points is individually set for students on probation. At the close of each semester and at the end of the summer terms, each student on probation is notified of the reduction necessary for his next enrollment period.

The following regulations apply to the probationary student:

1. A student on probation must show improvement in academic performance as required by the Teachers College. If he fails to meet this standard, he may be declared ineligible to attend the regular academic year or he may be dismissed from the university.
2. Any student who has a deficit of twenty (20) or more quality points and who did not receive the average stipulated by the Teachers College on all work attempted during the semester or summer term in which he last registered will be declared ineligible to attend during the regular academic year. An academic year is composed of two semesters, the First Semester (fall) and the Second Semester (spring).
3. Students who have been declared ineligible to attend classes during the regular academic year may attend during the summer sessions.

GRADUATION REQUIREMENTS

Grade Requirements

1. A quality point average of 2.0 (C) or better for all courses attempted.
2. A quality point average of 2.0 (C) or better in all comprehensive or subject specializations.
3. A quality point average of 2.0 (C) or better in all professional education courses.
4. 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.

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).

National Teacher Examinations

All Teachers College 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

Marshall University residency requirements will also apply to those students who choose to enroll in the Teachers College.

Program Requirements

The following information refers to the programming required in the Teachers College.

1. Students must complete the curriculum requirements as outlined in the undergraduate catalog in effect at the time they enter Marshall University or as outlined in this catalog. However, no catalog previous to the 1967-68 edition may be used to determine requirements for graduation.
2. 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.
3. 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.

4. Those students who expect to complete degree requirements in the Teachers College are required to complete their student teaching, a majority of their professional education courses, and teaching specialization requirements at Marshall University. Arrangements must be made in advance for those courses that are to be completed in other institutions or locations.

Curricular Requirements

The curricula to be completed by a student are identified under the four headings listed below. Each Teacher Education Program will describe the specific curricula requirements which apply to that program. The programs which are provided in Teachers College are listed on the pages which follow.

General Studies

Professional Education

Teaching Specializations

Diversified Subjects Requirements

TEACHER EDUCATION PROGRAMS

EARLY CHILDHOOD EDUCATION

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

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree.
2. Diversified subjects requirements for teaching in a self-contained classroom.
3. Professional requirements:

Educational Foundations 218, Human Development	3 hrs.
Educational Foundations 319, Human Development	3 hrs.
Educational Foundations 406, Foundations of Education	3 hrs.
Curriculum and Instruction 410, Supervised Student Teaching	8 hrs.
Curriculum and Instruction 443, Teaching Reading In Elementary Schools	3 hrs.
Total	20 hrs.

4. Specialization requirements:

Child Development Directed to Early Childhood Education

Home Economics 303, Child Development 3 hrs.
(Includes actual experiences with children.)

Organization and Administration of Early Childhood

Curriculum and Instruction 367, Early Childhood
Organization and Administration 3 hrs.

*Early Childhood Education and Curriculum to Include:**Sciences, Art, Music and Language Development*

Curriculum and Instruction 409, Early Childhood
Curricula 3 hrs.

Curriculum and Instruction 307, Science in the Elementary
School 3 hrs.

Speech 250, Storytelling and Dramatization 3 hrs.

Speech Development

Speech 418, Communication Disorders of School
Children 3 hrs.

Total 18 hrs.

ELEMENTARY SCHOOL TEACHING

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

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree.
2. Diversified subjects requirements for teaching in a self-contained classroom.
3. Professional requirements:

Educational Foundations 218, Human Development	3 hrs.
Educational Foundations 319, Human Development	3 hrs.
Educational Foundations 406, Foundations of Education	3 hrs.
Curriculum and Instruction 400, Elementary Education	4 hrs.
Curriculum and Instruction 405, Supervised Student Teaching	8 hrs.
Curriculum and Instruction 443, Teaching Reading In Elementary Schools	3 hrs.
Total	24 hrs.

4. Subject specialization requirements:
Students preparing to teach in an elementary school must select one

of the subject specializations for grades 1-9 or a specialization for special education or the specialization requirements for early childhood education.

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.

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree. The rehabilitation student must complete Biological Science 201-202 to meet the science requirement.
2. Professional requirements:

Counseling and Rehabilitation 306, Introduction to Rehabilitation	3 hrs.
Counseling and Rehabilitation 406, Rehabilitation Services	3 hrs.
Counseling and Rehabilitation 407, Rehabilitation Practicum	4 hrs.
Total	10 hrs.
3. Specialization requirements:

<i>Psychology (6 hours)</i>	
Psychology 201, General Psychology	3 hrs.
Psychology 311, Psychological Development: Infancy to Old Age	3 hrs.
<i>Sociology (9 hours)</i>	
Sociology 200, Introductory Sociology	3 hrs.
Sociology 305, Community Organization	3 hrs.
Sociology 409, Social Welfare	3 hrs.
<i>Zoology (4 hours)</i>	
Zoology 315, Human Anatomy and Physiology	4 hrs.
Total	19 hrs.
4. Supporting requirements: (18 hours)
 The following courses are suggested. Other courses may be selected with the approval of the rehabilitation education adviser.
Include four of the following:

Educational Foundations 435
Counseling and Rehabilitation 425, 490
Psychology 204, 223, 302, 406
Sociology 302, 310, 332, 342, 400, 408, 412, 413, 433

Include two of the following:

- Counseling and Rehabilitation 408
- Psychology 340, 408
- Sociology 311, 435, 436
- Curriculum and Instruction 420, 433, 444
- Speech 418

5. Electives to complete 128 hours (37 hours)

SECONDARY SCHOOL TEACHING (Grades 7-12)

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

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree.
2. Professional requirements:

Educational Foundations 218, Human Development	3 hrs.
Educational Foundations 319, Human Development	3 hrs.
Educational Foundations 406, Foundations of Education	3 hrs.
Curriculum and Instruction 450, Supervised Student Teaching	8 hrs.
Curriculum and Instruction 475, Secondary Education	4 hrs.
Methods in the teaching specialization for grades 7-12	2 hrs.
Total	23 hrs.
3. Subject specialization requirements:
 - a. One comprehensive subject specialization for grades 7-12 from the following: biological and general science, business education, chemistry and general science, home economics, language arts (comprehensive for English, speech and journalism), mathematics, physics and general science, and social studies.
 - or
 - b. Two single subject specializations for grades 7-12, from the following: art, business principles, English, French, German, health and physical education, journalism, Latin, mathematics, safety education (may be used as a second subject specialization for those students completing a comprehensive specialization. For all others it must be completed as a third subject specialization) secretarial studies, Spanish and speech.

or

- c. One single subject specialization for grades 7-12 (as listed in (b) above) and one designed for grades 7-9 from the following: art, French, general science, German, health and physical education, home economics, language arts, mathematics, social studies, Spanish and speech.

SPECIAL EDUCATION

The special education program is designed with four (4) options for the student who wishes to participate in the field of teaching exceptional children.

Options A and C are combined with the program for the preparation of elementary school teachers.

Options B and D are combined with the program for the preparation of secondary school teachers.

Option A Teaching Mentally Retarded Elementary Education

Minimum Requirements for Graduation

1. General studies requirements leading to an A.B. degree.
2. Diversified subjects requirements for teaching in a self-contained classroom.
3. Professional requirements:

Educational Foundations 218, Human Development	3 hrs.
Educational Foundations 319, Human Development	3 hrs.
Educational Foundations 406, Foundations of Education	3 hrs.
Curriculum and Instruction 400, Elementary Education	4 hrs.
Curriculum and Instruction 405, Supervised Student Teaching	4 hrs.
Curriculum and Instruction 440, Student Teaching With Mentally Retarded Children	4 hrs.
Curriculum and Instruction 443, Teaching Reading In Elementary Schools	3 hrs.
Total	24 hrs.
4. Specialization requirements:

<i>Orientation to Exceptional Children</i>	
Curriculum and Instruction 420, Introduction to Exceptional Children	3 hrs.
<i>Characteristics and Psychological Needs</i>	
Curriculum and Instruction 433, The Mentally Retarded Child	3 hrs.

Educational Procedures, Curriculum, Methods

Curriculum and Instruction 453, Curriculum Development
for Teachers of the Mentally Retarded 3 hrs.

Related Contents

Educational Foundations 435, Test and
Educational Foundations 435, Tests and
Speech 418, Communication Disorders of School
Children 3 hrs.

Total 15 hrs.

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, Human Development 3 hrs.
 - Educational Foundations 319, Human Development 3 hrs.
 - Educational Foundations 406, Foundations of
Education 3 hrs.
 - Curriculum and Instruction 450, Supervised Student
Teaching 4 hrs.
 - Curriculum and Instruction 440, Student Teaching
With Mentally Retarded Children 4 hrs.
 - Curriculum and Instruction 475, Secondary Education
Methods in the subject specialization 2 hrs.
 - Curriculum and Instruction 443, Teaching Reading
In The Elementary School or
Curriculum and Instruction 445, Teaching Reading
In The Secondary School 3 hrs.
 - Total 24 hrs.
3. Comprehensives or subject specializations as outlined for
secondary school teachers.
4. Specialization requirements:
 - Orientation to Exceptional Children*
Curriculum and Instruction 420, Introduction to
Exceptional Children 3 hrs.
 - Characteristics and Psychological Needs*
Curriculum and Instruction 433, The Mentally
Retarded Child 3 hrs.

Educational Procedures, Curriculum, Methods

Curriculum and Instruction 453, Curriculum Development
For Teachers of The Mentally Retarded 3 hrs.

Related Contents

Educational Foundations 435, Tests and
Measurements 3 hrs.

Speech 418, Communication Disorders of School
Children 3 hrs.

Supporting requirements:

Art 340, Art Education: Crafts 3 hrs.

Curriculum and Instruction 307, Science Education:
Science in the Elementary School 3 hrs.

English 203, Children's Literature 3 hrs.

Curriculum and Instruction 201, Mathematics Education:
Mathematics for Elementary Teachers II 3 hrs.

Curriculum and Instruction 300, Mathematics Education:
Teaching Arithmetic 2 hrs.

Music 370, Music Materials and Procedures 3 hrs.

Physical Education 314, Materials and Methods for
Elementary Schools 2 hrs.

Total 34 hrs.

Option C**Teaching Crippled and Other Handicapped
Elementary Education****Minimum Requirements for Graduation**

1. General studies requirements leading to an A.B. degree.
2. Diversified subjects requirements for teaching in a self-contained classroom.
3. Professional requirements:

Educational Foundations 218, Human Development	3 hrs.
Educational Foundations 319, Human Development	3 hrs.
Educational Foundations 406, Foundations of Education	3 hrs.
Curriculum and Instruction 400, Elementary Education	4 hrs.
Curriculum and Instruction 405, Supervised Student Teaching	5 hrs.
Curriculum and Instruction 496, Student Teaching	3 hrs.
Curriculum and Instruction 443, Teaching Reading In The Elementary Schools	3 hrs.
Total	24 hrs.

4.	Specialization requirements:	
	<i>Orientation to Exceptional Children</i>	
	Curriculum and Instruction 420, Special Education:	
	Introduction to Exceptional Children	3 hrs.
	<i>Characteristics and Psychological Needs</i>	
	Curriculum and Instruction 444, Special Education:	
	Characteristics of Crippled Children	3 hrs.
	<i>Educational Procedures, Curriculum, Methods</i>	
	Curriculum and Instruction 453, Special Education:	
	Curriculum Development for Teachers of the Mentally Retarded	3 hrs.
	Curriculum and Instruction 482, Special Education:	
	Clinical Implications of Crippling Conditions	3 hrs.
	<i>Related Contents</i>	
	Educational Foundations 435, Tests and Measurements	3 hrs.
	Total	15 hrs.

Option D

Teaching Crippled and Other Handicapped Secondary Education

Minimum Requirements for Graduation

1.	General studies requirements leading to an A.B. degree.	
2.	Professional requirements:	
	Educational Foundations 218, Human Development	3 hrs.
	Educational Foundations 319, Human Development	3 hrs.
	Educational Foundations 406, Foundations of Education	3 hrs.
	Curriculum and Instruction 450, Supervised Student Teaching	5 hrs.
	Curriculum and Instruction 496, Student Teaching	3 hrs.
	Curriculum and Instruction 475, Secondary Education	2 hrs.
	Methods in the subject specialization	2 hrs.
	Curriculum and Instruction 443, Teaching Reading In The Elementary School or Curriculum and Instruction 445, Teaching Reading In The Secondary School	3 hrs.
	Total	24 hrs.

3.	Comprehensives or subject specializations as outlined for secondary school teachers	
4.	Specialization requirements:	
	<i>Orientation to Exceptional Children</i>	
	Curriculum and Instruction 420, Special Education:	
	Introduction to Exceptional Children	3 hrs.
	<i>Characteristics and Psychological Needs</i>	
	Curriculum and Instruction 444, Special Education:	
	Characteristics of Crippled Children	3 hrs.
	<i>Educational Procedures, Curriculum, Methods</i>	
	Curriculum and Instruction 453, Special Education:	
	Curriculum Development for Teachers of the Mentally Retarded	3 hrs.
	Curriculum and Instruction 482, Special Education:	
	Clinical Implications of Crippling Conditions (Special Topics)	3 hrs.
	<i>Related Contents</i>	
	Educational Foundations 435, Tests and Measurements	3 hrs.
	<i>Supporting requirements:</i>	
	Art 340, Art Education: Crafts	3 hrs.
	Curriculum and Instruction 307, Science Education: Science in The Elementary School	3 hrs.
	English 203, Children's Literature	3 hrs.
	Curriculum and Instruction 201, Mathematics Education: Mathematics for Elementary Teachers II	3 hrs.
	Curriculum and Instruction 300, Mathematics Education: Teaching Arithmetic	2 hrs.
	Music 370, Music Materials and Procedures	3 hrs.
	Physical Education 314, Materials and Methods for Elementary Schools	2 hrs.
	Total	34 hrs.

TEACHING ALL GRADES (1-12)

The teaching all grades program provides professional preparation for teaching in an elementary school and for teaching a comprehensive(s) or subject specialization(s) in a secondary school.

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree.
2. Diversified subjects requirements for teaching in a self-contained classroom.

3. Professional requirements:
- | | |
|---|-------------|
| Educational Foundations 218, Human Development | 3 hrs. |
| Educational Foundations 319, Human Development | 3 hrs. |
| Educational Foundations 406, Foundations of
Education | 3 hrs. |
| Curriculum and Instruction 400, Elementary
Education | 4 hrs. |
| Curriculum and Instruction 405, Supervised Student
Teaching | 4 hrs. |
| Curriculum and Instruction 443, Teaching Reading
In Elementary Schools | 3 hrs. |
| Curriculum and Instruction 450, Supervised Student
Teaching | 4 hrs. |
| Methods in the subject specialization | 2 hrs. |
|
Total |
26 hrs. |
4. Subject specialization requirements:
One or more subject specialization(s) for teaching in grades 7-12.

TEACHING AND SCHOOL SERVICES (Grades 1-12)

The teaching and school services programs provide professional preparation for teaching and/or school services at all grade levels.

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree.
2. Professional requirements:
Each program has its specific set of requirements. Reference should be made to the specialization for a listing of the requirements.
3. Subject specialization requirements:
Each program has its specific set of requirements. Reference should be made to the specialization for a listing of the requirements. Subject specializations are listed in art 1-12, library science, music, speech and hearing therapy and teaching all grades 1-12.

TEACHER EDUCATION CURRICULA

GENERAL STUDIES REQUIREMENTS

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

The Humanities	19 hrs.
<i>English Language: Grammar, Composition, Speech</i>	
English 101-102, English Composition (or English 201H*, English Composition Honors, 3 hrs.)	3-6 hrs.
Speech 103**, Speech Fundamentals or Speech 305, Principles of Public Address	3 hrs.
<i>Literature: English and American Literature</i>	
Select 2 of the following courses:	6 hrs.
English 210, Biography	
English 218, Types of Poetry	
English 260, Creative Writing	
English 300, English Literature	
English 301, American Literature	
English 340, Black Literature	
<i>Art Appreciation</i>	
Art 112, Art Appreciation	2 hrs.
<i>Music Appreciation</i>	
Music 175, Music Appreciation	2 hrs.
The Sciences and Mathematics	11 hrs.
<i>Biological Science/Physical Science***</i>	
Biological Science 201, Biology of Plants and Biological Science 202, Animal Biology, or Physical Science 109-110, General Physical Science	8 hrs.
<i>Mathematics</i>	
Mathematics 110****, Introduction to College Mathematics	3 hrs.
Curriculum and Instruction 101*****, Mathematics for Elementary Teachers I	3 hrs.

*An accelerated course for freshmen selected on the basis on various entrance examinations. Completion of 201H satisfies the university requirement in freshman composition. Students completing 201H substitute an additional English course at the 300-400 level to complete graduation requirements.

**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 programs may select this course or an advanced course. All science and business education majors should check with their adviser for the mathematics required by their specialization.

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

The Social Studies 12 hrs.*History: Contemporary Civilization*

Social Studies 104-105, Western Civilization In Its
World Setting 6 hrs.

Current Problems: Economic, Social, Political

Social Studies 201-202, Fundamental Social Problems 6 hrs.

The Physical Education Subjects 2 hrs.

MEN

Military Science 101-102, Basic Course Military Science or
Physical Education 113-114, Orientation to Physical Education 2 hrs.

WOMEN

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

Physical Education 100, 125, 127, 132, 140, 141, 142, 145, 160
205, 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: (46 hours)

Children's Literature

English 203, Children's Literature 3 hrs.

American History

History 311-312-313, American History, 1492 to Present 9 hrs.

West Virginia History and Government

Social Studies 303, West Virginia History, Geography
and Government 3 hrs.

Global Geography

Geography 317, World Geographical Problems 3 hrs.

Biological Science and Physical Science

(8 hours in addition to those included in the general
studies requirements)

Biological Science 201, Biology of Plants and

Biological Science 202, Animal Biology or

Physical Science 109-110, General Physical Science 8 hrs.

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

Mathematics for Teachers

Curriculum and Instruction 201, Mathematics Education: Mathematics for Elementary Teachers II	3 hrs.
Curriculum and Instruction 300, Mathematics Education: Teaching Arithmetic	2 hrs.

Music Education

Music 303, Music Skills for Classroom Teachers	2 hrs.
Music 370, Music Materials and Procedures	3 hrs.

Art Education

Art 113, Drawing and Painting	3 hrs.
Art 340, Crafts	3 hrs.

Health Education

Physical Education 221, Health Education	2 hrs.
--	--------

Physical Education for Elementary Schools

Physical Education 314, Materials and Methods for Elementary Schools	2 hrs.
---	--------

Comprehensives and Subject Specializations

Programs for preparation for teaching require specializations in subjects which are to be taught in public schools. Specializations are listed in this section beginning with art and concluding with speech and hearing therapy.

Comprehensives

A field of preparation which includes one broad field or a combination of related subjects.

Comprehensives are provided in biological and general science, business education, chemistry and general science, home economics, language arts (English, speech and journalism), mathematics, physics and general science and social studies.

Subject Specializations 7-12

A single field of preparation for teaching in the secondary schools grades 7-12.

Subject specializations are provided in art, business principles, English, French, German, health and physical education, journalism, Latin, mathematics, safety education*, secretarial studies, Spanish and speech.

*Safety education may be used as a second subject specialization for those students completing a comprehensive specialization. For all others it must be completed as a third subject specialization.

Subject Specializations 7-9 or 1-9

A single field of preparation with minimum requirements. A secondary teacher may after the completion of one of these specializations teach that subject in grades 7, 8, and 9 of a junior high school. An elementary teacher after the completion of one of these specializations may teach that specialization in a departmentalized elementary school or in grades 7, 8, and 9.

Subject specializations 7-9 or 1-9 are provided in art, French, general science, German, health and physical education, home economics, language arts, mathematics, social studies, Spanish and speech.

Subject Specializations 1-12

A single field of preparation for teaching or school services for all grade levels.

Subject specializations 1-12 are provided in art, library science, music, speech and hearing therapy and teaching all grades.

ART*
(Grades 1-12)

The art requirements afford the student of art the opportunity to reach the greatest competency in the subject. In addition to the course requirements a student must do the following:

1. Submit near the end of the sophomore year a portfolio of art work completed in the freshman and sophomore years for review by the staff of the Department of Art. This must be submitted prior to enrollment in the advanced courses in art.
2. Present during the senior year a satisfactory exhibition of creative work.

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree.
2. Professional requirements:

Educational Foundations 218, Human Development	3 hrs.
Educational Foundations 319, Human Development	3 hrs.
Educational Foundations 406, Foundations of Education	3 hrs.
Curriculum and Instruction 405, Supervised Student Teaching	4 hrs.

*Requires a second subject specialization for grades 7-9 or 7-12.

Curriculum and Instruction 450, Supervised Student Teaching	4 hrs.
Curriculum and Instruction 468, Teaching Art In The Secondary School	2 hrs.
Curriculum and Instruction 475, Secondary Education	4 hrs.
Total	23 hrs.
3. Specialization requirements:	
Art 101-102, Drawing	6 hrs.
Art 112, Art Appreciation	2 hrs.
Art 113, Art Education: Drawing and Painting	3 hrs.
Art 203, Composition and Design in Drawing and Painting	3 hrs.
Art 214, Introduction to Design	3 hrs.
Art 215, Three-Dimensional Design	2 hrs.
Art 307, Sculpture	3 hrs.
Art 340, Art Education: Crafts	3 hrs.
Art 350, Watercolor Painting	3 hrs.
Art 401-402, History of Art	6 hrs.
Art 406, Figure Drawing	3 hrs.
Art 455-456, Painting: Acrylic and Oil	6 hrs.
Art 460, Art Education: History and Philosophy of Art	3 hrs.
Select one course from the following:	2 hrs.
Art 305, Ceramics; Art 306, Design in Metal; Art 470, Graphic Processes	
Total	48 hrs.

ART*
(Grades 7-12)

In addition to the art 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.

*Requires a second subject specialization for grades 7-9 or 7-12.

Art 101-102, Drawing	6 hrs.
Art 112, Art Appreciation	2 hrs.
Art 113, Art Education: Drawing and Painting	3 hrs.
Art 203, Composition and Design in Drawing and Painting	3 hrs.
Art 214, Introduction to Design	3 hrs.
Art 307, Sculpture	3 hrs.
Art 340, Art Education: Crafts	3 hrs.
Art 350, Watercolor Painting	3 hrs.
Art 401 or 402, History of Art	3 hrs.
Art 406, Figure Drawing	3 hrs.
Art 455, Painting: Acrylic and Oil	3 hrs.
Art 460, Art Education: History and Philosophy of Art Education	3 hrs.
Select one course from the following:	2 hrs.
Art 305, Ceramics; Art 306, Design in Metal; Art 470, Graphic Processes	
Total	40 hrs.

ART
(Grades 7-9 and 1-9)

Art 101, Drawing	3 hrs.
Art 113, Art Education: Drawing and Painting	3 hrs.
Art 214, Introduction to Design	3 hrs.
Art 215, Three-Dimensional Design	2 hrs.
Art 340, Art Education: Crafts	3 hrs.
Art 350, Watercolor Painting	3 hrs.
Art 401-402, History of Art	6 hrs.
Art 455, Painting: Acrylic and Oil	3 hrs.
Total	26 hrs.

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

Biological Science 201, Biology of Plants, and Biological Science 202, Animal Biology	8 hrs.
Biological Science 306, Field Biology	4 hrs.
Botany 415, Plant Morphology	4 hrs.

*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.

Chemistry 203-204, General Chemistry I and II or	
Chemistry 211-212, Principles of Chemistry I and II and	
Chemistry 213-214, Principles of Chemistry Laboratory	8 hrs.
Geology 200, Physical Geology	3 hrs.
Geology 201L, Earth Materials Laboratory	1 hr.
Physical Science 400, Astronomy	3 hrs.
Physics 201-203,* General Physics	6 hrs.
Physics 202-204, General Physics Laboratory	2 hrs.
Zoology 212, Advanced General Zoology	4 hrs.
Select 7-8 hours from the following:	7-8 hrs.
Biological Science 407, Genetics (4 hour course)	
Biological Science 482, Conservation of Forests, Soil and Wildlife (3 hour course)	
Botany 302, General Bacteriology (4 hour course)	
Botany 418, Mycology and Plant Pathology (4 hour course)	
Zoology 315, Human Anatomy and Physiology (4 hour course)	
 Total	 54-55 hrs.

BUSINESS EDUCATION
(Comprehensive: Grades 7-12)

Accounting 215-216, Principles of Accounting	6 hrs.
Accounting 311, Intermediate Accounting	3 hrs.
Economics 241-242, Principles of Economics	6 hrs.
Economics 310, Money and Banking	3 hrs.
Finance 323, Principles of Business Finance	3 hrs.
Management 307, Principles of Business Law	3 hrs.
Management 318, Business Statistics	3 hrs.
Management 320, Principles of Management	3 hrs.
Marketing 340, Principles of Marketing	3 hrs.
Office Administration 103**, Typewriting	2 hrs.
Office Administration 104, Intermediate Typewriting	2 hrs.
Office Administration 105, Advance Typewriting	2 hrs.
Office Administration 201, Shorthand	3 hrs.
Office Administration 202, Shorthand-Transcription	3 hrs.
Office Administration 301, Intermediate Dictation	3 hrs.
Office Administration 305, Office Machines	3 hrs.
Office Administration 404, Secretarial Training	3 hrs.
Office Administration 421, Office Management	3 hrs.

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

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

Electives (to be selected from the areas of advertising, data processing,
marketing, finance and management and administration 6 hrs.

Total 58-63 hrs.

BUSINESS PRINCIPLES*
(Grades 7-12)

Accounting 215-216, Principles of Accounting	6 hrs.
Economics 241-242, Principles of Economics	6 hrs.
Finance 323, Principles of Business Finance	3 hrs.
Management 307, Principles of Business Law	3 hrs.
Management 318, Business Statistics	3 hrs.
Marketing 340, Principles of Marketing	3 hrs.
Office Administration 103**, Typewriting	2 hrs.
Office Administration 104, Intermediate Typewriting	2 hrs.
Office Administration 105, Advanced Typewriting	2 hrs.
Office Administration 305, Office Machines	3 hrs.
Office Administration 421, Office Management	3 hrs.

Total 34-36 hrs.

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

Biological Science 201, Biology of Plants, and Biological Science 202, Animal Biology	8 hrs.
Chemistry 211-212, Principles of Chemistry I and II and Chemistry 213-214, Principles of Chemistry Laboratory	8 hrs.
Chemistry 255-256, Organic Chemistry I and II	10 hrs.
Chemistry 307, Introductory Physical Chemistry	3 hrs.
Chemistry 345, Quantitative Analysis	3 hrs.
Geology 200, Physical Geology	3 hrs.
Geology 210L, Earth Materials Laboratory	1 hr.
Physical Science 400, Astronomy	3 hrs.
Physics 201-203****, General Physics	6 hrs.
Physics 202-204, General Physics Laboratory	2 hrs.
Science Education 460 or 461, Special Problems	1 hr.

Total 48 hrs.

*Requires a second subject specialization for grades 7-9 or 7-12.

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

***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.

ENGLISH*
(Grades 7-12)

English 101-102, English Composition or English 201H, English Composition Honors (3 hrs.)	3-6 hrs.
English 300, English Literature	3 hrs.
English 301, American Literature	3 hrs.
English 325, Shakespeare	3 hrs.
English 405, Study of the English Language	3 hrs.
English 420, Senior Seminar in Literature	3 hrs.
English 450 or 451, World Literature	3 hrs.
English 475, Introduction to Linguistics	3 hrs.
Language, Classic or Modern Foreign	6 hrs.
Speech 103, Speech Fundamentals or Speech 305, Principles of Public Address	3 hrs.
Electives in English in 300-400 series (Include at least one course at the 400 level in English or American Literature before 1900)	6 hrs.
Total	39-42 hrs.

FRENCH*
(Grades 7-12)

French 121-122, First Year French	6 hrs.
French 223-224, Intermediate French	6 hrs.
French 314, Studies in Language Laboratory Techniques	3 hrs.
French electives (Must include at least 9 hours of literature)	15 hrs.
Total	30 hrs.

FRENCH
(Grades 7-9 and 1-9)

French 121-122, First Year French	6 hrs.
French 223-224, Intermediate French	6 hrs.
French 314, Studies in Language Laboratory Techniques	3 hrs.
French electives (Must include at least 6 hours of literature)	9 hrs.
Total	24 hrs.

* Requires a second subject specialization for grades 7-9 or 7-12.

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

Biological Science 201, Biology of Plants and Biological Science 202, Animal Biology	8 hrs.
Biological Science 482, Conservation of Forests, Soil and Wildlife	3 hrs.
Chemistry 203-204, General Chemistry I and II or Chemistry 211-212, Principles of Chemistry I and II and Chemistry 213-214, Principles of Chemistry Laboratory	8 hrs.
Geology 200, Physical Geology	3 hrs.
Geology 210L, Earth Materials Laboratory	1 hr.
Physical Science 400, Astronomy	3 hrs.
Physics 201-203* , General Physics	6 hrs.
Physics 202-204, General Physics Laboratory	2 hrs.
Total	34 hrs.

GERMAN**
(Grades 7-12)

German 101-102, First Year German	6 hrs.
German 203-204, Intermediate German	6 hrs.
German 314, Studies in Language Laboratory Techniques	3 hrs.
German electives (Must include at least 9 hours of literature)	15 hrs.
Total	30 hrs.

GERMAN
(Grades 7-9 and 1-9)

German 101-102, First Year German	6 hrs.
German 203-204, Intermediate German	6 hrs.
German 314, Studies in Language Laboratory Techniques	3 hrs.
German electives (Must include at least 6 hours of literature)	9 hrs.
Total	24 hrs.

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

**Requires a second subject specialization for grades 7-9 or 7-12.

HEALTH AND PHYSICAL EDUCATION*
(Grades 7-12)

MEN 35-39 hours; WOMEN 39-40 hours

Science

Physical Education 321, Kinesiology	3 hrs.
Physical Education 440, Physiology of Exercise	3 hrs.
Total	6 hrs.

Physical Education Activities

MEN (11-13 hours)

INDIVIDUAL AND DUAL SPORTS

Swimming: Select 1-2 hours from the following:	1-2 hrs.
Physical Education 100**, Beginner's Course (1 hour course)	
Physical Education 205, Intermediate (1 hour course)	
Physical Education 300, Recreation (1 hour course)	
Physical Education 403, Advanced (1 hour course)	
Physical Education 404, Water Safety Instruction (1 hour course)	

Electives: Select 4-5 hours from the following:	4-5 hrs.
Physical Education 203, Wrestling (1 hour course)	
Physical Education 207, Archery and Tennis (1 hour course)	
Physical Education 209, Individual and Dual Sports (Handball and Bowling) (1 hour course)	
Physical Education 210, Individual and Dual Sports (Golf and Badminton) (1 hour course)	
Physical Education 306, Tumbling (1 hour course)	
Physical Education 309, Advanced Tumbling (1 hour course)	
Physical Education 406, Beginning Gymnastics (1 hour course)	
Physical Education 409, Advanced Gymnastics (1 hour course)	

Total 5-7 hrs.

TEAM SPORTS

Electives: Select 4 hours from the following:	
Physical Education 103***, Football (1 hour course)	
Physical Education 109, Track (1 hour course)	

* Requires a second subject specialization for grades 7-9 or 7-12.

** Not open to students having credit in Physical Education 205.

*** Combination of Physical Education 103 and 111 or 104 and 110 must be taken the same semester.

Physical Education 110*, Basketball (1 hour course)
 Physical Education 111*, Baseball (1 hour course)
 Physical Education 206, Soccer and Speedball (1 hour course)

Total 4 hrs.

RHYTHMIC AND DANCE ACTIVITIES

Electives: Select 2 hours from the following:

Physical Education 104*, Basic Rhythms (1 hour course)
 Physical Education 304, Modern Dance I (1 hour course)
 Physical Education 305, Modern Dance II (1 hour course)
 Physical Education 330, Rhythmic Activities (1 hour course)
 Physical Education 401, Dance Composition (1 hour course)
 Physical Education 405, Advanced Round and Folk Dancing
 (1 hour course)

Total 2 hrs.

WOMEN (14 Hours)

FUNDAMENTAL SKILLS AND EXERCISES

Physical Education 123, Survey of Physical Abilities 1 hr.
 Physical Education 124, Fundamentals of Movement 1 hr.

Total 2 hrs.

INDIVIDUAL AND DUAL SPORTS

Physical Education 231, Tennis and Intermediate Swimming 2 hrs.
 Physical Education 232, Golf and Volleyball 2 hrs.
 Physical Education 233, Tumbling and Gymnastics 2 hrs.

Total 6 hrs.

TEAM SPORTS

Physical Education 108, Field Hockey and Badminton . . . 2 hrs.
 Physical Education 230, Basketball and Track and Field . . . 2 hrs.

Total 4 hrs.

RHYTHMIC AND DANCE ACTIVITIES

Physical Education 304, Modern Dance I 1 hr.
 Physical Education 330, Rhythmic Activities 1 hr.

Total 2 hrs.

*Combination of Physical Education 103 and 111 or 104 and 110 must be taken the same semester.

FOUNDATIONS OF PHYSICAL EDUCATION

Physical Education 118, Introduction to Health and
Physical Education 3 hrs.

Total 3 hrs.

ORGANIZATION, ADMINISTRATION AND EVALUATION

Physical Education 410, Principles, Organization and
Administration of Health and Physical Education 3 hrs.

Total 3 hrs.

ADAPTED PHYSICAL EDUCATION

Physical Education 322, Adapted Physical Education 3 hrs.

Total 3 hrs.

HEALTH EDUCATION AND SAFETY EDUCATION

Physical Education 220, Personal Hygiene 2 hrs.

Physical Education 221, Health Education 2 hrs.

Physical Education 222, First Aid 2 hrs.

Electives: Select one course from the following: 2-3 hrs.

Physical Education 422, Prevention, Care and Treatment of
Athletic Injuries (2 hour course)

Safety Education 235, Introduction to Safety Education
(3 hour course)

Safety Education 385, Traffic Safety and Driver Education
(3 hour course)

Safety Education 490, Problems and Practices in Traffic
Safety and Driver Education (3 hour course)

Total 8-9 hrs.

METHODS OF TEACHING TECHNIQUES

Physical Education 314*, Materials and Methods for Elementary
Schools (2 hour course) or

Physical Education 340, Methods in Team and Individual Sports (1 hour
course) or

Physical Education 341, Methods in Rhythms (1 hour course) or

Physical Education 420-421, Advanced Practice and Officiating (1 hour
course each) or

*Physical Education 314 is a required course for women.

Physical Education 426, Methods of Coaching Basketball (2 hour course) or	
Physical Education 427, Methods of Coaching Football (Men) (2 hour course) or	
Physical Education 428, Methods of Coaching Baseball (2 hour course)	
Total	1-2 hrs.

NOTE: Students who are veterans with at least one year of military service will be granted a maximum of four (4) semester hours credit in physical education upon their request. This credit will include the two (2) semester hours general studies requirement in physical education and two (2) hours of general electives in the field of health and physical education. The specific credit to be allowed will be determined by the Chairman of the Department of Physical Education.

HEALTH AND PHYSICAL EDUCATION (Grades 7-9 and 1-9)

Physical Education 118, Introduction to Health and Physical Education	3 hrs.
Physical Education 220, Personal Hygiene	2 hrs.
Physical Education 221, Health Education	2 hrs.
Physical Education 222, First Aid	2 hrs.
Physical Education 314, Materials and Methods for Elementary Schools	2 hrs.
Safety Education 235, Introduction to Safety Education . . .	3 hrs.
Electives in Physical Education	4 hrs.
Total	18 hrs.

HOME ECONOMICS (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: *

*Substitute for the professional education requirements listed for secondary school teaching.

Educational Foundations 218, Human Development	3 hrs.
Educational Foundations 319, Human Development	3 hrs.
Educational Foundations 406, Foundations of Education	3 hrs.
Home Economics Education 306, Methods in Home Economics Education	3 hrs.
Home Economics Education 406, Methods in Adult Home Economics Education	3 hrs.
Home Economics Education 450, Student Teaching In Home Economics	8 hrs.
Total	23 hrs.

3. Specialization requirements:

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

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

Home Economics 110, Food Selection and Preparation	3 hrs.
Home Economics 112*, Clothing Construction or Home Economics 213, Advanced Clothing Construction	2-3 hrs.

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

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

JOURNALISM*
(Grades 7-12)

Journalism 201-202, Reporting	6 hrs.
Journalism 300, History of American Journalism	3 hrs.
Journalism 301-302, Copy Editing	6 hrs.
Journalism 360, News Photography	3 hrs.
Journalism 405, Ethics of Mass Communications	2 hrs.
Journalism 428, High School Publications	3 hrs.
Journalism electives: Include one of the following topics:	4 hrs.
Journalism 304 and 305, Editorial Writing	
Journalism 308 and 309, Feature Writing	
Total	27 hrs.

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

English 101-102, English Composition or 201H, English Composition Honors	3-6 hrs.
English 300, English Literature	3 hrs.
English 301, American Literature	3 hrs.
English 325, Shakespeare	3 hrs.
English 405, Study of the English Language	3 hrs.
English 420, Senior Seminar in Literature	3 hrs.
English 450 or 451, World Literature	3 hrs.

*Requires a second subject specialization for grades 7-12.

**Comprehensive for teaching English, speech, and journalism.

English 475, Introduction to Linguistics	3 hrs.
Journalism 308 or 309, Feature Writing	2 hrs.
Journalism 428, High School Publications	3 hrs.
Language, Classic or Modern Foreign	6 hrs.
Speech 103, Speech Fundamentals or Speech 305, Principles of Public Address	3 hrs.
Speech 205, Argumentation and Debate	3 hrs.
Speech 240, Voice Training	3 hrs.
Speech 320, Oral Interpretation of Literature	3 hrs.
Speech 403, Play Direction	3 hrs.
Speech 450, The Direction of Speech Activities	3 hrs.
Select one of the following:	3 hrs.
Speech 210, Acting or	
Speech 432, Use of Radio and Television in the Classroom	
Electives in English in 300-400 series	6 hrs.
Include at least one course at the 400 level in English or American literature before 1900.	
Total	62-65 hrs.

LANGUAGE ARTS
(Grades 7-9 and 1-9)

English 101-102, English Composition or English 201H, English Composition Honors	3-6 hrs.
English 203, Children's Literature	3 hrs.
English 300, English Literature	3 hrs.
English 301, American Literature	3 hrs.
English 405, Study of the English Language or English 475, Introduction to Linguistics	3 hrs.
Speech 103, Fundamentals of Speech Communication or Speech 305, Principles of Public Address	3 hrs.
Speech 250, Storytelling and Dramatization	3 hrs.
Speech 418, Communication Disorders of School Children	3 hrs.
Total	24-27 hrs.

LATIN*
(Grades 7-12)

Latin 101-102, First Year Latin	6 hrs.
Latin 203-204, Intermediate Latin	6 hrs.

* Requires a second subject specialization for grades 7-9 or 7-12.

Classics 436, Roman Civilization	3 hrs.
Electives: Latin courses with the approval of adviser	18 hrs.
Total	33 hrs.*

LIBRARY SCIENCE **
(Grades 1-12)

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree.	
2. Professional requirements:	
Educational Foundations 218, Human Development	3 hrs.
Educational Foundations 319, Human Development	3 hrs.
Educational Foundations 406, Foundations of Education	3 hrs.
Curriculum and Instruction 405, Supervised Student Teaching or	
Curriculum and Instruction 450, Supervised Student Teaching	5 hrs.
Curriculum and Instruction 400, Elementary Education or Curriculum and Instruction 475, Secondary Education	4 hrs.
Curriculum and Instruction 465, Audiovisual Aids in Learning or	
Curriculum and Instruction 466, Production of Audiovisual Aids	3 hrs.
Total	21 hrs.
3. Specialization requirements:	
Library Science 301, The Teacher and Library Service	3 hrs.
Library Science 310, Organization and Administration of School Libraries	3 hrs.
Library Science 315, Reference and Bibliography	3 hrs.
Library Science 320, Cataloging and Classification	3 hrs.
Library Science 404, Book Selection for Children	3 hrs.
Library Science 405, Book Selection for Adolescents	3 hrs.
Library Science 450, Library Practice	3 hrs.

*May be reduced by advanced placement.

**Requires a second subject specialization for grades 7-9 or 7-12. Office Administration 103 or the equivalent is a prerequisite to courses in library science.

Library Science electives: Select one of the following:	3 hrs.
Library Science 401, History of Books and Libraries	
Library Science 410, Foundations of Mass Communications	
Total	24 hrs.

MATHEMATICS
(Comprehensive: Grades 7-12)

Mathematics 122*, Plane Trigonometry	3 hrs.
Mathematics 130*, College Algebra	3 hrs.
Mathematics 131, Calculus With Analytic Geometry I	5 hrs.
Mathematics 230, Calculus With Analytic Geometry II	4 hrs.
Mathematics 231, Calculus With Analytic Geometry III	4 hrs.
Mathematics 445, Introduction to Theory of Statistics	3 hrs.
Mathematics 448, Fundamental Concepts of Modern Geometry	3 hrs.
Mathematics 449, Projective Geometry	3 hrs.
Mathematics 450, Fundamental Concepts of Modern Algebra	3 hrs.
Mathematics 451, Linear Algebra	3 hrs.
Electives:	3-4 hrs.
Any mathematics course above Mathematics 231 may be elected except Mathematics 400 and 401.	
Total	37-38 hrs.

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

MATHEMATICS **
(Grades 7-12)

Mathematics 122*, Plane Trigonometry	3 hrs.
Mathematics 130*, College Algebra	3 hrs.

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

**Requires a second subject specialization for grades 7-9 or 7-12.

Mathematics 131, Calculus With Analytic Geometry I	5 hrs.
Mathematics 230, Calculus With Analytic Geometry II	4 hrs.
Mathematics 231, Calculus With Analytic Geometry III	4 hrs.
Select one of the following:	3 hrs.
Mathematics 448, Fundamental Concepts of Modern Geometry (3 hour course)	
Mathematics 449, Projective Geometry (3 hour course)	
Select one of the following:	3 hrs.
Mathematics 450, Fundamental Concepts of Modern Algebra (3 hour course)	
Mathematics 451, Linear Algebra (3 hour course)	
 Total	 25 hrs.

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

MATHEMATICS (Grades 7-9 and 1-9)

Curriculum and Instruction 101, Mathematics Education: Mathematics for Elementary Teachers I	3 hrs.
Curriculum and Instruction 201, Mathematics Education: Mathematics for Elementary Teachers II	3 hrs.
Curriculum and Instruction 300, Mathematics Education: Teaching Arithmetic	2 hrs.
Curriculum and Instruction 482, Mathematics Education: Special Topics	3 hrs.
(Required for 7-9 specialization only)	
Electives:	8 hrs.
Any course above Mathematics 110 may be elected	
 Total	 16-19 hrs.

MUSIC (Grades 1-12)

Minimum Requirements for Graduation

1. General studies requirements for an A.B. degree.
2. Professional requirements:

Educational Foundations 218, Human Development	3 hrs.
Educational Foundations 319, Human Development	3 hrs.
Educational Foundations 406, Foundations of Education	3 hrs.
Music Education 338, Materials and Methods in School Music	3 hrs.
Music Education 340, Materials and Methods in School Music	3 hrs.
Curriculum and Instruction 405, Supervised Student Teaching	4 hrs.
Curriculum and Instruction 450, Supervised Student Teaching	4 hrs.
Total	23 hrs.

3. Specialization requirements:

Applied Music (24 hours)*

Major	14 hrs.
Minor	6 hrs.
Techniques	4 hrs.
Music 261, String Techniques (1 hour course)	
Music 262, Woodwind Techniques (1 hour course)	
Music 263, Brass Techniques (1 hour course)	
Music 264, Percussion Techniques (1 hour course)	
Major Ensembles	7 hrs.
Music 115-116, Elementary Theory	8 hrs.
Music 122-123, Introduction to Music Literature	4 hrs.
Music 215-216, Advanced Theory	8 hrs.
Music 301, Analysis	2 hrs.
Music 316, Keyboard Harmony	2 hrs.
Music 320, Instrumental Arranging or	
Music 321, Choral Arranging	2 hrs.
Music 380, Instrumental Conducting	2 hrs.
Music 422-423, History and Literature of Music	6 hrs.
Music 480, Choral Conducting	2 hrs.
Electives	2 hrs.
Total	69 hrs.

* Students must select an applied music major and minor from the eighteen (18) areas in the catalog within the instrumental and vocal disciplines. In all cases the student will complete a minimum of instrumental (4 semester hours), piano (4 semester hours) and voice (2 semester hours). Major and minors to be selected from: saxophone, flute, oboe, clarinet, bassoon, French horn, trumpet, trombone, baritone, tuba, violin, viola, cello, string bass, piano, voice, organ, and percussion.

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

Biological Science 201, Biology of Plants and Biological Science 202, Animal Biology	8 hrs.
Chemistry 203-204, General Chemistry I and II or Chemistry 211-212, Principles of Chemistry I and II and Chemistry 213-214, Principles of Chemistry Laboratory	8 hrs.
Geology 200, Physical Geology	3 hrs.
Geology 210L, Earth Materials Laboratory	1 hrs.
Physical Science 400, Astronomy	3 hrs.
Physics 201-203**, General Physics	6 hrs.
Physics 202-204, General Physics Laboratory	2 hrs.
Physics 320, Introductory Modern Physics	3 hrs.
Physics 421, Modern Physics Laboratory	2 hrs.
Physics electives** :	7-8 hrs.
Recommended:	
Physics 314, Electronic Physics and Physics 315, Electronics Laboratory	
Select 2-3 hours from the following:	
Physics 301, Electrical Measurements (2 hour course)	
Physics 304, Optics (3 hour course)	
Physics 305, Optics Laboratory (2 hour course)	
Physics 308, Thermal Physics (3 hour course)	
 Total	 43-44 hrs.

SAFETY EDUCATION***
(Grades 7-12)

Safety Education 235, Introduction to Safety Education	3 hrs.
Safety Education 385, Traffic Safety and Driver Education	3 hrs.
Safety Education 480, Traffic Law and Enforcement	3 hrs.
Safety Education 490, Problems and Practices in Traffic Safety and Driver Education	3 hrs.
Related course electives (Select 6 hours from the following)	6 hrs.
Physical Education 222, First Aid (2 hour course)	
Physical Education 403, Advanced Swimming and Water Safety (1 hour course)	

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

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

***Safety education may be used as a second subject specialization for those students completing a comprehensive specialization. For all others it must be completed as a third subject specialization.

Physical Education 404, Water Safety Instruction (1 hour course)
 Physical Education 422, Prevention, Care and Treatment of Athletic
 Injuries (2 hour course)
 Safety Education 485, Industrial Safety (3 hour course)
 Safety Education 495, Industrial Safety Management
 (3 hour course)

Total 18 hrs.

SECRETARIAL STUDIES*
(Grades 7-12)

Accounting 215-216, Principles of Accounting	6 hrs.
Economics 241-242, Principles of Economics	6 hrs.
Management 307, Principles of Business Law	3 hrs.
Management 318, Business Statistics	3 hrs.
Office Administration 103**, Typewriting	2 hrs.
Office Administration 104, Intermediate Typewriting	2 hrs.
Office Administration 105, Advanced Typewriting	2 hrs.
Office Administration 201**, Shorthand	3 hrs.
Office Administration 202, Shorthand-Transcription	3 hrs.
Office Administration 301, Intermediate Dictation	3 hrs.
Office Administration 305, Office Machines	3 hrs.
Office Administration 404, Secretarial Training	3 hrs.
Office Administration 421, Office Management	3 hrs.

Total 37-42 hrs.

SOCIAL STUDIES
(Comprehensive: Grades 7-12)

Anthropology 301, Cultural Anthropology	3 hrs.
Economics 300, Survey of Economics	3 hrs.
Economics 342, Economic Development of the United States	3 hrs.
Geography 203, General Economic Geography	3 hrs.
Geography 317, World Geographical Problems	3 hrs.
History 311-312-313, American History, 1492 to Present	9 hrs.
History 321-322, European History	6 hrs.
History 375, The Far East or History 427, Russia in the 19th and 20th Centuries	3 hrs.
Political Science 201, American National Government	3 hrs.
Social Studies 104-105, Western Civilization in its World Setting	6 hrs.

*Requires a second subject specialization for grades 7-9 or 7-12.

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

Social Studies 201-202, Fundamental Social Problems	6 hrs.
Select one of the following:	3 hrs.
Political Science 202, American State Government	
Social Studies 303, West Virginia History, Geography and Government	
Total	51 hrs.

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

Geography 317, World Geographical Problems	3 hrs.
History 311-312-313, American History, 1492 to Present	9 hrs.
Political Science 201, American National Government	3 hrs.
Social Studies 104-105, Western Civilization in its World Setting	6 hrs.
Social Studies 201-202, Fundamental Social Problems	6 hrs.
Social Studies 303, West Virginia History, Geography and Government	3 hrs.
Total	30 hrs.

SPANISH*
(Grades 7-12)

Spanish 101-102, First Year Spanish	6 hrs.
Spanish 203-204, Intermediate Spanish	6 hrs.
Spanish 314, Studies in Language Laboratory Techniques	3 hrs.
Spanish Electives:	15 hrs.
(Must include at least 9 hours of literature)	
Total	30 hrs.

SPANISH
(Grades 7-9 and 1-9)

Spanish 101-102, First Year Spanish	6 hrs.
Spanish 203-204, Intermediate Spanish	6 hrs.
Spanish 314, Studies in Language Laboratory Techniques	3 hrs.
Spanish Electives:	9 hrs.
(Must include at least 6 hours of literature)	
Total	24 hrs.

*Requires a second subject specialization for grades 7-9 or 7-12.

SPEECH*
(Grades 7-12)

Speech 103, Fundamentals of Speech or Speech 305, Principles of Public Address	3 hrs.
Speech 202, Practical Public Speaking	2 hrs.
Speech 205, Argumentation and Debate	3 hrs.
Speech 210, Acting	3 hrs.
Speech 240, Voice Training	3 hrs.
Speech 312-313, Play Production	4 hrs.
Speech 320, Oral Interpretation of Literature	3 hrs.
Speech 403, Play Direction	3 hrs.
Speech 418, Communication Disorders of School Children	3 hrs.
Speech 432, Use of Radio and Television in the Classroom	3 hrs.
Speech 450, The Direction of Speech Activities	3 hrs.
Total	33 hrs.

SPEECH
(Grades 7-9 and 1-9)

Speech 103, Fundamentals of Speech Communication or Speech 305, Principles of Public Address	3 hrs.
Speech 202, Practical Public Speaking	2 hrs.
Speech 209, Introduction to the Theatre	3 hrs.
Speech 210, Acting	3 hrs.
Speech 240, Voice Training	3 hrs.
Speech 250, Storytelling and Dramatization	3 hrs.
Speech 418, Communication Disorders of School Children	3 hrs.
Speech 432, Use of Radio and Television in the Classroom	3 hrs.
Speech 445, Children's Theatre	3 hrs.
Total	26 hrs.

SPEECH AND HEARING THERAPY
(Grades 1-12)

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:

* Requires a second subject specialization for grades 7-9 or 7-12.

Educational Foundations 319, Human Development	3 hrs.
Educational Foundations 406, Foundations of Education	3 hrs.
Educational Foundations 435, Tests and Measurements	3 hrs.
Curriculum and Instruction 420, Introduction to Exceptional Children	3 hrs.
Total	12 hrs.

3. Specialization requirements:

Psychology 201, General Psychology	3 hrs.
Psychology 311*, Psychological Development: Infancy to Old Age	3 hrs.
Speech 240, Voice Training	3 hrs.
Speech 370, Language and Speech Development	3 hrs.
Speech 420, Voice in Communications	3 hrs.
Speech 422, Speech in Communications	3 hrs.
Speech 424, Diagnostic Processes with Communication Disorders	3 hrs.
Speech 425, Language in Communication	3 hrs.
Speech 426, Clinical Problems with Communication Disorders	3 hrs.
Speech 427, Clinical Practicum with School Children	6 hrs.
Speech 429, Anatomy and Physiology	3 hrs.
Speech 439, Phonetics	3 hrs.
Speech 460, Hearing in Communication	3 hrs.
Speech 463, Methods and Materials with Hearing Disorders	3 hrs.
Speech 468, Methods and Materials with Speech Disorders	3 hrs.
Speech 470, Therapeutic Processes with Communication Disorders	3 hrs.
Electives (Recommended)	9 hrs.
English 475, Introduction to Linguistics	
Psychology 340, Physiological Psychology	
Psychology 408, Psychology of Abnormal Behavior	
Total	60 hrs.

*Psychology 311 must be taken before Educational Foundations 319.

College of Arts and 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 the two-year degree: Associate in Arts.

Organizations

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

Division of Humanities: Language, English and the Arts

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

Division of Sciences: Mathematics and the Natural and Physical Sciences

Mathematics, physics, chemistry, geology, home economics, biological science (bacteriology, botany, zoology).

Division of Social Sciences:

History, economics, political science, journalism, philosophy, psychology, geography, education, 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.

4. No more than three hours may be elected in the Department of Educational Foundations by students in the College of Arts and Sciences.

Specific Requirements for the A.B. Degree

HUMANITIES

- I. English
- | | | | |
|----|---------------------------------|-----------|--------|
| a. | English Composition 101 and 102 | | 6 hrs. |
| b. | English Literature 300 | | 3 hrs. |
| c. | American Literature 301 | | 3 hrs. |
- II. Speech 103(see however Speech 305) 3 hrs.

III. Foreign languages

Candidates for the Bachelor of Arts degree must earn 12-18 hours of foreign language as outlined in the following paragraphs:

1. If the student has no high school language, he must earn 18 hours of language credit in college. These hours may be in one language or 12 hours may be earned in one and 6 in another.
2. If the student has one unit of language credit from high school or if he has one unit in each of two languages he must earn 15 hours of college credit in one foreign language.
3. If the student has two units of high school credit in one foreign language he must earn 12 hours of college credit in one language. These hours may be earned in the language which was started in high school or in a different one.
4. Students contemplating graduate study should have French and German. German is especially recommended for students majoring in science.
5. No language is required of majors in advertising in the Department of Journalism who have two units of language from high school. Advertising majors who have had less than two units of language in high school are required to take 12 hours of one foreign language.

- IV. Physical education—2 hrs. (must be activity courses) or military science—8 hrs.

(Must complete 8 hrs. of M.S. before any credit will be given).

SCIENCES

- I. Natural and physical sciences
Choose two from a,b,c,d,e.
- | | | | |
|----|--------------------------|-----------|--------|
| a. | Physics 201-202, 203-204 | | 8 hrs. |
|----|--------------------------|-----------|--------|

b.	Chemistry	8 hrs.
c.	Biological Science 201-202	8 hrs.
d.	Geology	7-8 hrs.
e.	Physics 200 and Astronomy 400	7 hrs.

Total 15-16 sem. hrs.

Candidates for the A.B. degree with journalism or advertising as a major may satisfy the science requirement by choosing one of a,b,c,d or e.

- II. Mathematics 110,120,122 or 130 3 hrs.
(Not required of dietetics majors.)

SOCIAL SCIENCES

- I. History, economics, or political science (in two) 8-9 hrs.
- II. Psychology, sociology or philosophy (may be distributed) 8-9 hrs.

Total 16-18 hrs.

GRAND TOTAL 63, 66, 78 hrs.

Specific Requirements for the B.S. Degree

HUMANITIES

- I. English
 - a. English Composition 101 and 102 6 hrs.
 - b. English Literature 300 3 hrs.
 - c. American Literature 301 3 hrs.
- II. Speech 103 (see however Speech 305) 3 hrs.

- III. Foreign language
Twelve hours must be earned in one foreign language. These hours may be earned either in a new language or in one already begun in high school – 12 hrs.
(Students contemplating graduate study in any field should have French and German. German is especially recommended for students majoring in science.)

- IV. Physical education—2 hrs. (must be activity courses) or military science—2 hrs—8 hrs.
(Must complete 8 hrs. of M.S. before any credit will be given.)

SCIENCE

I.	a.	Physics 201-202 and 203-204	. . . . .	8 hrs.
	b.	Chemistry 211-213 and 212-214	. . . . .	8 hrs.
	c.	Biological Science 201-202	. . . . .	8 hrs.
	d.	Geology	. . . . .	4 hrs.
	e.	Mathematics 120 and 122, or 130 and 131	. . . . .	6-8 hrs.

Total 34-36 hrs.

Candidates for the B.S. degree must take the subjects mentioned under a,b,c,d and e with the following exception: majors in home economics take only b and c, and majors in journalism advertising take either a,b,c, or d.

SOCIAL SCIENCES

I.	History, economics, or political science (in two)	. . . . .	8-9 hrs.
II.	Psychology, sociology, or philosophy (may be distributed)	. . . . .	8-9 hrs.

GRAND TOTAL 79-89 hrs.

**Special Requirements for the B.S.
in Chemistry Degree**

See the printed curriculums for the degrees under the departmental sections of this catalog, but note that for each of these degrees the social science requirements as given for the A.B. and B.S. degrees must be met.

TWO-YEAR CURRICULUMS

For those who may not be able, or may not wish to complete four years of college work, a two-year special curriculum is offered. This course serves three purposes: (1) It enables the student to avoid rambling aimlessly through a number of unrelated courses merely to say that he has attended college for a certain length of time; (2) it enables the student to prepare better for some vocation or phase of work in which he may be interested; (3) it gives the student a feeling of satisfaction for having completed a course of study.

Upon the successful completion of this curriculum the student will be granted the degree of Associate in Arts. However, after the completion of a two-year course the student may, if he wishes, continue toward a baccalaureate degree.

GENERAL EDUCATION

Curriculum

First Year

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Biological Science 201	4	Biological Science 202	4
Political Science 201	3	Sociology 200	3
Mathematics 110 or 120*	3	Mathematics 122*	3
Language	3	Language	3
	16		16

Second Year

First Semester	Hrs.	Second Semester	Hrs.
English 300	3	English 301	3
History (300 level)	3	Chemistry or physics	4
Chemistry or physics	4	Psychology 201	3
Economics 241	3	Language	3
Language	3	Electives	3
	16		16

Total hours must be equal or exceed . 64

FOUR-YEAR CURRICULUMS

ANTHROPOLOGY

Anthropology is available as a minor but not as a major. Refer to sociology course listings for individual courses.

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 to be presented by the student during his or her senior year.

*If Physics is taken.

Students in the College of Arts and Sciences may major in the fine arts and earned the A.B. degree by meeting the general and specific requirements and by taking 40-42 hours from the following courses in art:

Art 101-102	Drawing	6
Art 406	Figure Drawing	3
Art 203	Composition and Design in Drawing and Painting	3
Art 350	Water color Painting	3
Art 455-456	Oil Painting	6
Art 307	Sculpture	3
Art 401-402	History of Art	6

Select 5 or 6 hours from the following group:

Art 214	Design	3
Art 215	Three-dimensional Design	2
Art 305	Ceramics	2
Art 306	Design in Metal	2

Select 5 or 6 additional hours from the following:

Art 112	Art Appreciation	2
Art 351	Watercolor Painting	3
Art 360	Painting media	3
Art 404	20th Century Art	3
Art 405	Art in America	3
Art 470	Graphics	3

Minimum requirements 40-42 hrs.

BIOLOGICAL SCIENCE

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

The major requirements include Biological Science 201 and 202, 8 hours in botany, 8 hours in zoology and 8 hours chosen under the guidance of the department chairman. Students with this major are urged to work toward the B.S. degree.

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

Biological Science 201 and 202	8 hrs.
Zoology 212 and 301 or 302	8 hrs.
Botany 416 and 302 or 415 or Biological Science 404	8 hrs.
Additional hours in Botany, Zoology, or Biological Science 403, 404, or 407	8 hrs.
Total	32 hrs.

BIBLE AND RELIGION

Courses in the Department of Bible and Religion are open to all students at Marshall University who want a more profound understanding of the nature of religion and its importance to man and his society. Twenty-six hours of course work are required for a major in the department.

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.

Curriculum

First Year

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Biological Science 201	4	Speech 103*	3
Mathematics 120	3	Biological Science 202	4
Foreign language	3	Foreign language	3
Physical education**	1	Physical education**	1
	14		17

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Botany 415	4	Botany 416	4
Chemistry 211-213	4	Chemistry 212-214	4
Foreign language	3	Foreign language	3
English 300	3	English 301	3
Social science	2-3	Social science	3
	16-17		17

*May be taken in first or second semester.

**Physical education may be replaced by Military Science 101-202, 8 hours.

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Botany 302	4	Biological Science 404	4
Physics 201-202	4	Physics 203-204	4
Chemistry 217	5	Geology	4
Social science	3	Social science	5
	<hr/>		<hr/>
	16		17

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Botany electives	3-4	Botany electives	3-4
Social science	3	Electives*	13
Electives*	10		
	<hr/>		<hr/>
	16-17		16-17

CHEMISTRY

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

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

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

Curriculums

B.S. Degree, Major in Chemistry: The student must meet the general requirements for the B.S. degree, and must present credit for chemistry courses through Chemistry 256, Chemistry 307 or 357, Chemistry 345, and six hours of chemistry electives. The American Chemical Society requires 32 semester hours for admission to full membership without previous experience.

B.S. in Chemistry Degree: This curriculum meets the minimum standards of the American Chemical Society. The student must meet the general

* Electives should be chosen after consulting the faculty advisor and should be at the 300-400 course level.

requirements for the B.S. degree, and must satisfy the specific requirements for the B.S. degree in the areas of humanities and social sciences. Additional requirements are: (1) mathematics through integral calculus; (2) a minimum of 10 hours of physics; (3) two years of German or Russian and (4) complete courses in 255-6, 305, 345, 357-8, 401-2 (2 hrs.), 447, 448, 456 and (5) at least two electives chosen from Chemistry 410, 462-3, 466, 475, 480, and 482. With the approval of the chairman one of the following courses may be substituted for an advanced chemistry elective: Physics 470, Mathematics 336, 427, or 430.

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 as to whether credit for Chemistry 211 and 212 is to be given.

B.S. in Chemistry Curriculum

First Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 211-213	4	Chemistry 212-214	4
English 101	3	English 102	3
Mathematics 130 or 120	3	Mathematics 131 or 130	3-5
Physical education or military science	1-2	Physical education or military science	1-2
Foreign language (e.g. German 101)	3	Foreign language (e.g. German 102)	3
	14-15		14-17

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 255	5	Chemistry 256	5
Mathematics 230 or 131	4-5	Mathematics 231 or 230	4
Foreign language (e.g. German 203)	3	Foreign language (e.g. German 323)	3
Physics 201-202	4	Physics 203-204	4
		Chemistry 305	1
	16-17		17

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 331	Cr.	Chemistry 332	Cr.
Chemistry 345	3	Chemistry 358	5
Chemistry 357	3	English 300 or 301	3
Mathematics 231 or English 300 or 301	3-4	Social Science elective	3
Social science elective	3	Chemistry, physics or math, elective	3
Physics electives	2	Speech 305	3
	<hr/>		<hr/>
	14-15		17

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 401	2	Chemistry 402	2
Chemistry 431	Cr.	Chemistry 432	Cr.
Chemistry 447	3	Chemistry 448	2
Chemistry 456	4	Chemistry elective (e.g. Chem. 482)	3
Chemistry elective	3	Electives (300-499)	6
Social science (e.g. Philosophy 304)	3	Social science elective	3
	<hr/>		<hr/>
	15		16

CLASSICAL LANGUAGES

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

ECONOMICS

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

1. To help prepare students for effective participation in the decision making processes of society by offering them an opportunity to develop their ability to analyze economic problems and issues and to deepen their understanding of the operation of the economies of the U.S. and other countries. Economics deals with such subjects as economic theory, business fluctuations, distribution of resources and income, international trade, economic development, managerial decision-making, industrial relations, and the growth of national income and welfare.

2. To prepare majors for administration or research positions in business firms, government agencies, labor organizations or private foundations.

3. To provide suitable courses and instruction for those majors who plan to enter law or graduate school.

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

Majors may fulfill the general and specific requirements for either the A.B. or B.S. 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 201 H are required of all freshmen and are prerequisites to all subsequent English courses. English 300 and 301 are required of all candidates for the A.B. and B.S. degrees and are prerequisite to all subsequent 300-400 level courses in English.

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

FORESTRY

Cooperative Plan of Study

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

Curriculum

First Year

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Mathematics 120* or 130*	3-5	Mathematics 122 or 131	3-5
Chemistry 211-213	4	Chemistry 212-214	4
Biological Science 201	4	Biological Science 202	4
		Speech 103	3
	<hr/>		<hr/>
	14-16		17-19

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Physics 201-202	4	Physics 203-204	4
Foreign language**	3	Foreign language**	3
English 300	3	English 301	3
Geology 200 and 210	4	Botany 416	4
Social Science***	3	Social Science***	2-3
	<hr/>		<hr/>
	17		16-17

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Botany 415	4	Botany or BSC 404	4
Chemistry 217	5	Foreign language**	3
Foreign language**	3	Physical education	1
Social Science***	3	Social science***	8-9
	<hr/>		<hr/>
	16		16-17

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:

-
- *Sufficient mathematics to include calculus is recommended.
 - ** German or French.
 - *** Must include economics. The remaining social science courses may be chosen under the guidance of the faculty advisor.

Required in this group	18 hrs.
Geography 203, 305, 317, 320, 405, 429	
Required in this group	3 hrs.
Geography 309, 408	
Required in this group	6 hrs.
Geography 302, 315, 401, 403, 409, 412, 413	
Total required	27 hrs.

GEOLOGY

The Department of Geology offers work leading toward the B.S. and A.B. degrees and minor work toward the masters degree. 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.

Curriculum

First Year

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Geology 200*	3	Geology 201*	3
Geology 210*	1	Geology 211*	1
Language	3	Language	3
Mathematics 130 or 120	3	Mathematics 131 or 230**	4
Physical education	1-2	Physical education	1-2
Electives	2		
	<hr/>		<hr/>
	16-17		15-16

*Course required for B.S. degree.

**Mathematics 230 required for B.S. degree.

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry	4	Chemistry	4
Language	3	Language	3
English 300	3	English 301	3
Structural Geology 313*	3	Elective (Geol. recommended)	3-4
Speech 103	3	Elective (open)	2-4
Geology 212*	1		
Elective (open)	1		
	<hr/>		<hr/>
	17-18		15-18

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Biology 201	4	Biology 202	4
Mineralogy 314*	4	Economic Geology 422*	4
Social science (elective)	4	Petrology 321*	4
Elective	3	Social sciences (elective)	4
Geomorphology 451*	3	Elective (open)	1
	<hr/>		<hr/>
	18		17

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Physics 201-202	4	Physics 203-204	4
Geology Seminar 453*	1	Geology Seminar 454*	1
Paleontology 8*	3	Elective (open)	4
Social sciences (elective)	4	Social sciences (elective)	4
Stratigraphy 324*	3	Elective (open)	4
	<hr/>		<hr/>
	15		17

HISTORY

Requirements of history major: 32 semester hours, including History 311, 312, 313, 321, 322.

*Course required for B.S. degree.

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. The B.S. degree is awarded. Upon successful completion of the course they may apply for admission to an internship program or may substitute preplanned experience to qualify for A.D.A. membership. Graduate internships vary in length at different institutions, the shortest being of six months duration.

Curriculum for Dietitians

First Year

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Language	3	Language	3
Chemistry 203	4	Chemistry 204	4
Home Economics 110	3	Home Economics 203	3
Physical education	1	Physical education	1
		Home Economics 210	3
	—		—
	14		17

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Biological Science 201	4	Biological Science	4
Language	3	Language	3
Speech 103	3	Sociology 200	3
Economics 241	3	Psychology 301	3
Accounting 215	3	Home Economics 303	3
	—		—
	16		16

Third Year

First Semester	Hrs.	Second Semester	Hrs.
English 300	3	English 301	3
Chemistry 217	5	Chemistry 300 and 301	4
Psychology, sociology, Philosophy*	3	Zoology 315	4
History 312 or 322	3	Home Economics 304 and Elective	3
Home Economics 403 or 413	3	or Home Economics 405	3
		and 407	3
	<hr/>		<hr/>
	17		17

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Botany 302	4	Management 424	3
History 313	3	Educational Foundations 319**	3
Home Economics 420	3	Home Economics 304	3
Home Economics 403 or 413	3	and Elective	3
Electives	3	or Home Economics 405	3
		and 407	3
		Electives	3
	<hr/>		<hr/>
	16		15

INTERNATIONAL AFFAIRS

A major in international affairs combines studies in economics, history, and political science, and emphasizes study of a modern language. The program can be pursued at other schools with graduate work in one of the subjects or 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. All available conversational courses should be taken and at least six additional hours at the 300-400 level. A minimum of 16 hours is required of students who receive credit for two years of high school

*Suggested courses: Psychology 301, 311, 340; Philosophy 201, 303.

** Field experience not required.

language (the same language as that taken at Marshall) and 22 hours for those who did not.

- b. The following courses are required:
Economics 241, 242, 408, and 420.
Political Science 201, 309, 405, and 406
History 313, 322, 404, 405 and 418
Geography 405.
- c. The student must develop a sequence of courses consisting of a minimum of six hours from each of the following:
 1. Political Science 333, 370, 407, 408, 409, 410, 411, 415, 418, 419, 421.
An appropriate summer workshop may be added or substituted for one of these courses with the approval of the advisor.
 2. History 301, 302, 314, 315, 375, 427.
- d. A regional geography course in the area of the student's interest is highly recommended.

JOURNALISM

The Department of Journalism offers a news-editorial sequence to prepare students for employment in the news-editorial departments of daily newspapers. Additional courses are given in advertising, broadcast journalism, industrial publications, magazine article writing, public relations and school publications.

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

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.

Curriculum in Journalism

News Editorial Sequence

Students preparing for careers in the news-editorial departments of daily newspapers should follow the curriculum below along with the requirements of the College of Arts and Sciences. This will lead to the A.B. degree in journalism.

First Year

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Journalism 101	2	Language*	3
Speech 103	3	Science	3-4
Language*	3	Physical education or military science	1-2
Science	4	Electives	6
Physical education or military science	1-2		
	<hr/>		<hr/>
	16-17		16-18

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Mathematics 110	3	Sociology 200	3
Language*	3	Psychology 201	3
Journalism 201	3	Journalism 202	3
Political Science 201	3	Language*	3
Economics 241	3	Political Science 202	3
Electives	2	Electives	2
	<hr/>		<hr/>
	17		17

Third Year

First Semester	Hrs.	Second Semester	Hrs.
English 300	3	English 301	3
Journalism 301	3	Journalism 302	3
Journalism 300	3	Journalism 305 or 309	2
Journalism 304 or 308	2	Language or electives*	3
History 312 or 313	3	Psychology, sociology or philosophy	2-3
Language or electives*	3	Electives	3
	<hr/>		<hr/>
	17		16-17

*See language requirements of the College of Arts and Sciences.

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Journalism 360	3	Journalism 402	3
Journalism 405	2	Electives	12
Electives	<u>10</u>		
	15		15

Curriculum in Advertising

Journalism Sequence

Students preparing for careers in advertising should follow the curriculum below which leads to the A.B. degree in advertising.

First Year

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Journalism 101	2	Office Administration 103**	2
Speech 103	3	Language*	3
Science (A&S Course)	4	Science (A&S Course)	3-4
Language*	3	Physical education or military science	1-2
Physical education or military science	<u>1-2</u>	Speech 230	<u>3</u>
	16-17		15-17

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Mathematics 110	3	Sociology 200	3
Language*	3	Psychology 201	3
Journalism 201	3	Journalism 202	3
Political Science 201	3	Language*	3
Economics 241	3	Art 216	3
English 300	<u>3</u>	English 301	<u>3</u>
	18		18

*Twelve hours of foreign language are required unless a student presents two units from high school. If two units are presented, the student should select from among the following courses: Accounting 215, 3; Economics 242, 3; Psychology 302, 3; Journalism 308, 2; Journalism 405, 2.

**Unless one unit of credit in typewriting from high school.

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Journalism 301	3	Journalism 302	3
Management 320	3	Management 318	3
Journalism 335	3	Journalism 330	3
Marketing 340	3	Marketing 341	3
Electives	5	Elective	3
	<hr/>		<hr/>
	17		15

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Political Science 307	3	Journalism 382	3
Marketing 440	3	Journalism 402	3
Journalism 381	3	Marketing 442	3
Philosophy, psychology, or sociology	3	Electives	6-8
Journalism 360	3		
	<hr/>		<hr/>
	15		16-17

Other recommended electives are Speech 231,3; Speech 233,3; Speech 332,3; Journalism 350,3; Journalism 351,3; Art 214,3.

Broadcast Journalism

In cooperation with the Department of Speech, majors in journalism (students who have completed all the requirements for Certificate in Journalism) may take a program of courses leading to certification in broadcast journalism.

Course requirements for the broadcast journalism sequence are:

Journalism 350, 3; 351, 3; Speech 230, 3; 233, 3; 240, 3; and 331, 3. (Prerequisite for Journalism 350-351 is Journalism 201-202).

MATHEMATICS

Requirements for the mathematics major: 18 hours beyond the integral calculus.

Placement Examination—Satisfactory attainment in a placement examination is a prerequisite for enrollment in Mathematics 130-131. Transfer students who wish to major in mathematics must take at least 6 hours of mathematics beyond the integral calculus at Marshall University.

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 314 and at least six hours of courses at the 400 level.

MUSIC

Students may major in music and earn the A.B. degree in the College of Arts and Sciences by meeting the general and specific requirements and by taking the following curriculum:

Curriculum

First Year

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Speech 103*	3	Foreign language	3
Foreign language	3	Physical education or military science	1
Physical education or military science	1-2	Music 116	4
Music 115	4	Music, applied (100 level)	1
Music, applied (100 level)	1	Music, ensemble (100-200 level)	1
Music, ensemble (100-200 level)	1	Music 175	2
	<hr/>		<hr/>
	16-17		15

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Foreign language	3	Foreign language	3
English 300	3	English 301	3
History, economics or political science	3	Philosophy, psychology or sociology	2-3
Music, applied (200 level)	1	Music, applied (200 level)	1
Music, ensemble (200 level)	1	Music, ensemble (200 level)	1
Music 215	4	Science	4
Mathematics 110	3		
	<hr/>		<hr/>
	18		14-15

*Speech 103 may be taken in first or second semester.

Third Year

First Semester	Hrs.	Second Semester	Hrs.
History, economics or political science	2-3	History, economics or political science	3
Science (A&S Course)**	4	Philosophy, psychology or sociology	3
Music, applied (300 level)	2	Science (A&S Course)**	3-4
Music, ensemble (300 level)	1	Music, applied (300 level)	1
Science	4	Music, ensemble (300 level)	1
Elective	3	Electives (300-400 level)	3
	<hr/>		<hr/>
	16-17		14-15

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Music 422	3	Music 423	3
Music, applied (400 level)	2	Music, applied (400 level)	2
Music, ensemble (400 level)	1	Music, ensemble (400 level)	1
Philosophy, psychology or sociology	2-3	Electives (300-400 level)	10
Electives (300-400 level)	9		
	<hr/>		<hr/>
	17-18		16

Piano Proficiency: All students entering this curriculum are required to pass a proficiency examination in piano which includes sight reading, simple accompaniment from a given melodic line, simple transposition, and Clementi sonatinas or the equivalent. Students who cannot qualify under this examination as entering freshmen are required to take piano without credit until the examination can be passed.

Applied Music: In this curriculum students are required to pursue courses in applied music on one particular instrument or voice for eight semesters leading to a senior recital which must be approved by the faculty of the Department of Music before qualifying for a degree with a major in music.

PHILOSOPHY

A minimum of 26 hours is required for a major in philosophy.

*The science requirements may be met by taking one of the following options in Arts and Sciences laboratory courses: physics, 8 hrs.; biological science, 8 hrs.; chemistry, 8 hrs.; or geology, 7 hrs.

PHYSICAL EDUCATION

A major in physical education, with its allied fields of health education, recreation, coaching, and safety education, prepares the student to enter many types of professional careers such as recreation supervisor, camp director, director of youth and community agencies, and safety specialist.

Students in the College of Arts and Sciences may major in physical education by meeting the general and specific requirements of the college and by completing a total of 32 hours of work in the field of physical education.

Required Physical Education Courses

113-114	(Men) Orientation to PE	2
Physical Education Elective for Women (select 2 hours from activities courses)		
118	Introduction to Physical Education or 430-Camp Counseling	3
220	Personal Hygiene	2
221	Health Education	2
222	First Aid	2
303	Outdoor Recreation Education	2
321	Kinesiology	3
335	Organization of Intramural Program	2
450	Playground and Community Recreation	2
475	Principles and Techniques of Recreational Leadership	2

Elect 10 additional hours from the following:

103	Football	1
108	Field Hockey and Badminton	2
109	Track	1
110	Basketball	1
111	Baseball	1
206	Soccer and Speedball	1
207	Archery and Tennis	1
209	Individual and Dual Sports	1
210	Individual and Dual Sports	1
230	Basketball and Track, Field	2
231	Tennis and Intermediate Swimming	2
232	Golf and Volleyball	2
233	Tumbling and Gymnastics	2
300	Recreation Swimming	1
304	Modern Dance	1
306	Tumbling	1
314	Material and Methods for Elementary School	2
330	Rhythmic Activities	1
403	Advanced Swimming	1
404	Water Safety Instruction	1
406	Beginning Gymnastics	1

409	Advanced Gymnastics	1
430*	Camp Counseling	3
Minimum requirements		32 hrs.

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.

Freshmen should plan to take Mathematics 130 during the summer previous to entering Marshall University and complete Mathematics 131 during the first semester of their freshman year so that they can take Physics 211 and 212 during the second semester of the freshman year.

POLITICAL SCIENCE

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

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

The fields of the political science curriculum with courses in each are as follows:

American State, Local, and Urban Politics: 202, 301, 376, 381, 461, and 440.

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

Comparative Politics: 370, 407, 408, 409, 410, and 411.

International Politics: 309, 405, 406, 415, 418, 419 and 421.

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

Public Administration: 333, 383, 433.

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

*430 Camp Counseling ultimately to replace 118 in our elective required courses.

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

Two major sequences are recognized:

Nonprofessional major requires minimum of 26 hours in psychology courses approved by the adviser in terms of the student's interests and objectives. This sequence is not intended to prepare the student for graduate professional study in psychology.

Preprofessional major in preparation for graduate professional training in psychology. It includes Psychology 201, 223, 311, 323, 324, 340, 406, 417, and 460. Mathematics 120 should be taken before Psychology 417. Additional courses in mathematics and physiology, and Philosophy 304 are recommended.

SOCIOLOGY

The following sequences are available in the department:

Sociology Major—Nonprofessional Option. Soc. 200, 300, 344, 345, 460 and 18 additional hours on the 300-400 level. For students not planning to do graduate work. (31 hours).

Sociology Major—Preprofessional Option. Soc. 200, 300, 344, 345, 403, 445, 460, 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. (31 hours).

Sociology Major—Community Development Option. Soc. 200, 300, 305, 344, 345, 332, or 442, 400, 439, 460 plus 6 additional hours on the 300-400 level. For students planning to go into community planning and development or social action programs. (31 hours)

Sociology Major—Preprofessional Social Work Option. Soc. 200, 300, 305, 344, 345, 409, 410, 431, 432, 446, 447, 460. (34 hours)

Sociology Minor. Twelve hours of sociology.

Anthropology Minor. Twelve hours of anthropology.

SPEECH

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

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

Majors in speech who wish an emphasis in theatre are required to have Speech 103, 209, 210, 240, 312-313, 320, 403, 405 or 447, 446 and one of the

following: 321, 440, 445, 448. These students should minor in English, taking two courses in dramatic literature after completing English 101, 102, 300, 301. They should also select six hours from the following: Art 101 (for those interested in scene design), Art 112, Music 175, Physical Education 304 and 305, Speech 227, 228, 327, and 328.

Special curriculums in broadcasting, speech pathology and audiology are available.

Curriculum in Broadcasting

First Year

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Language*	3	Language*	3
Political Science 201	3	Speech 230	3
Physical education or military science	1-2	Physical education or military science	1-2
Speech 103	3	Science	4
Science	4	Mathematics	3
	<hr/>		<hr/>
	17-18		17-18

Second Year

First Semester	Hrs.	Second Semester	Hrs.
English 300	3	English 301	3
Language*	3	Language*	3
Science	4	Science	3-4
Speech 232	3	Speech 231	3
Speech 233	3	Speech 240	3
	<hr/>		<hr/>
	16		15-16

*See page 149 for language requirements.

Third Year

First Semester	Hrs.	Second Semester	Hrs.
History, economics or political science	3	History, economics or political science	3
Psychology 201	3	Sociology or philosophy	3
Journalism 360 or Curriculum and Instruction 466	3	Selected from Speech 331, 333, 433	6
Speech 330	3	Electives II	5
Speech 332	3		
Electives**	2		
	<hr/>		<hr/>
	17		17

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Psychology 223	3	Selected from Speech 430 or 431	3
Speech 436	3	Speech 432	3
Speech 437	3	Speech 435	3
Electives**	7-8	Electives**	7-8
	<hr/>		<hr/>
	16-17		16-17

Curriculum in Speech Pathology and Audiology

First Year

First Semester	Hrs.	Second Semester	Hrs.
English 101	3	English 102	3
Speech 103	3	Speech 240	3
Foreign language*	3	Foreign language*	3
Science	4	Science	4
Physical education or military science	1-2	Physical education or military science	1-2
Elective	3	Psychology 201	3
	<hr/>		<hr/>
	17-18		17-18

*See page 149 for language requirements.

**The minor must be elected in consultation with the student's adviser.

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Foreign language	3	Foreign language	3
Biological Science 201	4	Biological Science 202	4
Mathematics 110	3	Sociology elective	3
Psychology 223	3	Psychology 311	3
Speech 250	3	Speech 370	3
	<hr/>		<hr/>
	16		16

Third Year

First Semester	Hrs.	Second Semester	Hrs.
English 300	3	English 301	3
Sociology elective	3	Psychology 340	3
Social science*	3	Speech 420	3
Speech 429	3	Speech 422	3
Speech 439	3	Speech 425	3
	<hr/>		<hr/>
	15		15

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
English 475	3	Social science*	3
Social science*	3	Elective	3
Speech 424	3	Psychology 408	3
Speech 460	3	Speech 426	3
Speech 470	3	Speech 463	3
	<hr/>		<hr/>
	15		15

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.

*All social science courses must be selected from history, economics, or political science.

Zoology majors must complete at least 22 semester hours of credit within the division. In addition to the general and specific requirements of the degree, the curriculum of zoology majors should include Zoology 212, and 301 or 302. In addition to these courses, 14 additional hours which may include zoology electives 424, 426 or Biological Sciences 403, 407, or 404 are to be elected, and 8 hours of general chemistry. The following courses are recommended as electives for zoology majors; Botany 415 and 416, Biological Sciences 404, Geology 418, Philosophy 304; Chemistry 300 and 301, English 408, and 8 hours of general physics.

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."

PREPARATORY FOR MEDICINE

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

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 201	4	Biological Science 202	4
Physical education or military science	1-2	Physical education or military science	1-2
Mathematics 120 or 130 or 131	3-5	Mathematics 122 or 131	3-5
	<u>15-18</u>		<u>15-18</u>

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 255	5	Chemistry 256	5
English 300	3	English 301	3
Physics 201	3	Physics 203	3
Physics 202	1	Physics 204	1
Foreign language	3	Foreign language	3
Speech 103	3		
	<u>18</u>		<u>15</u>

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 345	3	Chemistry 307	3
Zoology 301*	4	Zoology 302	4
Foreign language	3	Foreign language	3
Psychology 201	3	Electives	6-8
Electives	3		
	<u>16</u>		<u>16-18</u>

Fourth Year

The senior year must include the courses needed to meet degree requirements and department major requirements. (See Combined College and Professional Degrees.)

*Either Zoology 301 or 302 must be satisfactorily completed in order to be eligible to receive a bachelor's degree under the combined degree program.

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 such as zoology, etc. 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.

DENTISTRY

Students preparing to enter dental college should take a similar course, except that foreign language is not usually required. The ruling of the Council on Dental Education calls for a minimum of 6 semester hours in each of the following: English, biology, physics, inorganic chemistry; 3 semester hours of organic chemistry, and electives to make a total of 60 semester hours, as preparation for four years in any leading school of dentistry.

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 Applied Science

Academic programs in the College of Applied Science are oriented by professional fields of endeavor. Practical experience and in-service training are integrated with the basic sciences and humanities courses offered throughout the university. Since most professions require qualifying state or national board examination, the course requirements are rigid. Degree requirements are based upon recommendations of criteria required by supervising organizations and agencies. However, some latitude in the selection of elective courses is permitted each student. In general, the College of Applied Science offers courses and integrated programs which have immediate application in the student's chosen field of endeavor.

The College of Applied Science offers the following degrees: Bachelor of Science in Civil Engineering (B.S.C.E.), Bachelor of Engineering Science (B.E.S.), Bachelor of Science in Medical Technology (B.S. in Medical Technology), Associate in Science in Nursing (A.S. in Nursing), Bachelor of Science in Cytotechnology (B.S. in Cytotechnology), Associate in Science in Cytotechnology (A.S. in Cytotechnology). The Department of Military Science offers courses leading to a commission in the United States Army, contingent upon graduation from the university.

REQUIREMENTS OF DEGREES

General Requirements for all Degrees

(1) Candidates for all degrees must complete all of the specific requirements for their curriculum, as listed below, and must satisfy the requirements of the Qualifying Examination in English Composition.

(2) Candidates for graduation must have a quality point average of 2.0 or higher on all work attempted in the degree department and on all work attempted at Marshall University. (Transfer students must also have an average of 2.0 or higher on all college-level work attempted.)

Specific Requirements

CYTOTECHNOLOGY

Bachelor of Science in Cytotechnology and Associate in Science in Cytotechnology

The following curriculum meets the needs of those people preparing for positions as Cytotechnologists in hospitals, clinics and private physicians' laboratories. The work of the senior year (twelve months) is given at the Cabell Huntington Hospital in cooperation with Marshall University. The School of

Cytotechnology at Cabell Huntington Hospital is accredited by the American Society of Clinical Pathologists to give such training. Upon successful completion of the four year curriculum, the student is granted the degree Bachelor of Science in Cytotechnology.

In some instances a student may be admitted to the School of Cytotechnology twelve month course at Cabell Huntington Hospital before completing the requirements for the B.S. in Cytotechnology degree. However, the minimum entrance requirement is (60) sixty semester hours in selected subjects which must be completed and approved through the Registry of Medical Technology. Students successfully completing the first two years of the curriculum, plus the twelve month clinical program, may elect to receive the Associate in Science degree.

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 201	4	Biological Science 202	4
Mathematics 120	3	Mathematics 122	3
Electives	2	Electives	2
	16		16

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 345	3	Zoology 315	4
Physics 201-202	4	Physics 203-204	4
Zoology 301	4	Zoology 300	4
Electives	5	Electives	5
	16		17

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 217	5	Chemistry 300-301	4
Zoology 424	4	Botany 302	4
Electives	7	Electives	7
	16		15

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Cytotechnology 431 . . .	6	Cytotechnology 433 . . .	6
Cytotechnology 432 . . .	6	Cytotechnology 434 . . .	6
	12		12

Summer Sessions

First Semester	Hrs.	Second Semester	Hrs.
Cytotechnology 435 . . .	4	Cytotechnology 436 . . .	3
		Cytotechnology 437 . . .	1
	4		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.

Other elective hours should be selected in the fields of economics, history, political science, sociology, art, English and biological sciences. The student may select on the basis of interests, but, in general, not more than one course should be selected in any one field.

ENGINEERING

The Department of Engineering offers a civil engineering program leading to the Bachelor of Science in Civil Engineering degree (B.S.C.E.) and a general engineering program leading to the Bachelor of Engineering Science degree (B.E.S.).

The civil engineering curriculum is accredited by the Engineers' Council for Professional Development, the recognized accrediting agency for undergraduate engineering curriculums in the United States.

Students fulfilling degree requirements for the B.S.C.E. and the B.E.S. degrees follow a common course of study for the first year; and, by consultation with their academic adviser, may delay making a final decision as to which of the two degrees to pursue until the end of the sophomore year. The curriculums are designed to provide the student with a foundation of scientific and engineering knowledge, along with training in the engineering method of attacking problems.

The civil engineering curriculum consists of a sequence of courses which develops basic principles and applies these principles to selected problems encountered in the practice of civil engineering in such areas as the design of

structures and the utilization of water resources.

The West Virginia Department of Highways and the Department of Engineering offer a cooperative program in highway engineering in which the student divides his time between formal education and practical experience. One or more semesters are spent each year pursuing the standard civil engineering curriculum at Marshall and the remainder of the year is spent in the employment of the West Virginia Department of Highways, where all possible advantage is taken of the engineering theory which the student has studied. The time required to complete the program depends primarily upon the financial status of the student and may vary from four to eight years. Upon successful completion of the educational program the student is awarded the Bachelor of Science in Civil Engineering degree and is offered an engineering position with the West Virginia Department of Highways. Additional information about the program may be obtained by writing the Chairman, Department of Engineering.

The general engineering program prepares a student for general industrial employment by providing instruction in the principles of design, construction, operation, and maintenance of mechanical and electrical devices and systems.

A minimum of 148 semester hours of credit is required for graduation in each of these curriculums. A limited amount of specialization along the line of the student's interest is permitted through the selection of appropriate electives in the senior year. The choice of electives is subject to the approval of the chairman of the Department of Engineering and the Dean of the College of Applied Science. Approved technical electives are listed following each of the curriculums. Nontechnical electives must be chosen from the fields of history, economics, political science, literature, sociology, philosophy, psychology, or fine arts.

Classification of Engineering students

Students who have completed 100 hours of college work are classified as seniors.

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

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

Students who have completed the high school or secondary course and less than 30 hours of college work are classified as freshmen.

Engineering Awards

D-Rho D-Theta, honorary engineering fraternity, annually awards an engraved cup to the sophomore engineering student who makes the highest scholastic average during his freshman year.

The Carl E. Bechdolt Award, consisting of a slide rule, is awarded annually to a promising engineering student in the freshman class. This award was established in 1961 by a Marshall engineering graduate and is awarded by D-Rho D-Theta.

The TRASCO Award, consisting of a slide rule, is awarded annually to a worthy engineering student in the freshman class. This award was established in 1964 by the Technical Reproduction and Supply Corporation, to be awarded by D-Rho D-Theta.

The Engineers Club of Huntington annually awards a prize and certificate of award to the engineering student whom they judge to be outstanding in the upper quarter of the sophomore class.

Huntington Chapter, West Virginia Society of Professional Engineers awards a prize and certificate of award to the student whom they judge to be outstanding in the upper quarter of the junior class.

Ohio Valley Section of The Institute of Electrical and Electronic Engineers, Inc., annually awards a prize and certificate of award to the student whom they judge to be outstanding in the senior class.

Civil Engineering Curriculum

Bachelor of Science in Civil Engineering Degree

First Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 211-213	4	Chemistry 212-214	4
English 101	3	English 102	3
General Engineering 100	Cr.	General Engineering 102	2
General Engineering 101	2	Mathematics 230	4
General Engineering 103	1	Physics 211	4
Mathematics 131	5	Physics 212	1
Social Studies 104	3		
	18		18

Summer Session

Civil Engineering 200 - 5

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Engineering Mechanics 200	3	Economics 300	3
General Engineering 201	1	Engineering Mechanics 201	3
General Engineering 203	3	Engineering Mechanics 202	3
Mathematics 231	4	Mathematics 335	4
Physics 213	4	Physics 320	3
Physics 214	1	Psychology 201	3
Social Studies 105	3		
	19		19

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Civil Engineering 301	3	Civil Engineering 302	3
Economics 346 or 356	3	Civil Engineering 303	3
Electrical Engineering 300	3	Engineering Mechanics 301	4
Engineering Mechanics 300	3	Engineering Mechanics 302	3
General Engineering 301	Cr.	General Engineering 300	3
Mechanical Engineering 303	3	General Engineering 302	Cr.
Philosophy 304	3	Nontechnical elective	3
	<hr/>		<hr/>
	18		19

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Civil Engineering 400	3	Civil Engineering 402	3
Civil Engineering 401	3	Civil Engineering 404	3
Civil Engineering 403	2	Civil Engineering 406	3
Civil Engineering 405	3	General Engineering 402	Cr.
General Engineering 400	2	General Engineering 403	2
Technical elective	3	Technical elective	5
	<hr/>		<hr/>
	16		16

General Engineering Curriculum

Bachelor of Engineering Science Degree

First Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 211-213	4	Chemistry 212-214	4
English 101	3	English 102	3
General Engineering 100	Cr.	General Engineering 102	2
General Engineering 101	2	Mathematics 230	4
General Engineering 103	1	Physics 211	4
Mathematics 131	5	Physics 212	1
Social Studies 104	3		
	<hr/>		<hr/>
	18		18

Summer Session

General Engineering 203 - 3

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Economics 300	3	Economics 346 or 356	3
Engineering Mechanics 200	3	Engineering Mechanics 201	3
General Engineering 200	1	Engineering Mechanics 202	3
Mathematics 231	4	Mathematics 335	4
Physics 213	4	Physics 320	3
Physics 214	1		
Social Studies 105	3		
	<hr/>		<hr/>
	19		19

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Electrical Engineering 301	3	Electrical Engineering 302	3
Engineering Mechanics 300	3	Electrical Engineering 304	1
Engineering Mechanics 301	4	Engineering Mechanics 302	3
General Engineering 301	Cr.	General Engineering 300	3
Mechanical Engineering 301	3	General Engineering 302	Cr.
Mechanical Engineering 303	3	Mechanical Engineering 302	3
Philosophy 304	3	Mechanical Engineering 304	3
		Mechanical Engineering 306	2
	<hr/>		<hr/>
	19		18

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Electrical Engineering 401	3	Electrical Engineering 402	3
Electrical Engineering 403	1	Electrical Engineering 404	2
General Engineering 400	2	General Engineering 402	Cr.
General Engineering 401	Cr.	General Engineering 403	2
Mechanical Engineering 401	3	Mechanical Engineering 420	3
Mechanical Engineering 410	3	Technical elective	6
Nontechnical elective	3		
Technical elective	3		
	<hr/>		<hr/>
	18		16

MEDICAL TECHNOLOGY**B.S. In Medical Technology Degree**

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

Training standards for medical technologists are under the general supervision of the Council on Medical Education and Hospitals of the American Medical Association, which inspects, evaluates, and approves schools. The Cabell Huntington Hospital school is so approved. In this field, properly qualified persons, upon passing the required examinations, may be certified by the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists.

Two years of the three-year pretechnology curriculum may be taken in any institution of recognized standing. However, one academic year of residence study at Marshall University is required during this three year period. Students who have taken professional work at some affiliated college or university other than Marshall are subject to an examination in order to qualify for acceptance of such transfer credits. Work completed at nonaffiliated schools will not be accepted, and must be repeated.

The work of the fourth year is largely clinical in nature and is carried out in the laboratories of Cabell Huntington Hospital. Students take the practical and didactic work at stated hours in the hospital and are subject to the usual regulations and discipline of the regular laboratory staff. They are lectured and instructed by hospital personnel with academic rank in the university. The fourth-year work occupies 12 months (first and second semesters and two summer terms) beginning in September and ending the following year in September.

Credit Requirements

For admission to the fourth-year professional curriculum, three years of college work are required with a total of at least 90 semester hours, including required courses in:

Chemistry:

20 semester hours. One year general chemistry. Quantitative analysis and organic chemistry.

Biological Science:

16 semester hours. One year in biological science. Histology and bacteriology. (One additional course may be selected by the student.)

Mathematics:

6 semester hours. Algebra and plane trigonometry.

Physics:

8 semester hours. One year general physics.

Electives:

37 semester hours. Electives, as for any professional career, are chosen to include broad education in English, social sciences, arts and humanities. Typewriting also is useful.

Other Qualifications

Completion of the three-year pretechnology program outlined above does not of itself assure admission to the fourth year for the technical training. Students wishing to be considered for this training should make application upon forms obtainable from the Director of Medical Technology. Application should be made in January of the third year. They are considered after April 1. At the time of making application the student, if he is not in residence at Marshall University, should request the registrar of his college to send two copies of official transcripts of his work to the director of admissions of Marshall University. All transfer students must have a "C" or better average on all college work attempted to be eligible for admission.

Admission is on recommendation of the Committee on Medical Technology and with the approval of the dean of the College of Applied Science. Each student must be acceptable to the Registry of Medical Technologists.

Preference is given to residents of West Virginia. Scholarship and general fitness are considered in making selection of students. For transfer students, letters of recommendation from responsible faculty members who are qualified to write concerning general fitness may be required.

Eligibility to begin work of the fourth year is contingent upon the demonstration of personal aptitude for this work and upon full completion of the curriculum of the previous three years with a grade point average of not less than 2.0 (C).

Curriculum in Medical Technology**First Year**

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 211-213	4	Chemistry 212-214	4
Mathematics 120	3	Mathematics 122	3
Biological Science 201	4	Biological Science 202	4
English 101	3	English 102	3
Electives	2	Electives	2
	<hr/>		<hr/>
	16		16

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 217	5	Chemistry 300-301	4
Physics 201-202	4	Physics 203-204	4
Electives	6	Speech 103	3
		Electives	5
	<hr/>		<hr/>
	15		16

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 345	3	Zoology 300	4
Botany 302	4	Electives	12
Electives	10		
	<hr/>		<hr/>
	17		16

Suggested Electives:

Foreign language, typewriting, English literature, economics, history, sociology, psychology

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/>		<hr/>
	14		14

Summer Session

First Semester	Hrs.	Second Semester	Hrs.
Medical Technology 417	1	Medical Technology 418	3

Additional electives may be taken in Medical Technology (see course descriptions for Medical Technology 419, 420 and 421.)

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

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

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

The objective of the military science course of instruction is to produce commissioned officers—leaders who by their education, training, and inherent qualities are suitable for continued development as officers in the United States Army. This program provides a basic military education and, in conjunction with other college disciplines, develops the individual's character and other attributes essential to an officer of the United States Army. The program consists of two parts: The Basic Course and the Advanced Course, each of which extends throughout two academic years with an attendance at a summer training camp included in the Advanced Course.

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

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

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

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

1. Be less than 27 years old prior to enrollment in the Advanced Course. Be able to qualify for appointment as an officer prior to reaching 28 years of age.

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

Special Scholarships

One, two, three, or four-year scholarships covering the cost of all university tuition fees, books, and laboratory expenses in all subjects, plus a \$50 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 of \$149.00 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 \$50.00 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 \$1,000.00 for the two years of the advanced course.

Credit

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

Basic Course and are unable to continue their college education may be granted a Certificate of Training.

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

Two-Year Program

A two-year ROTC program is available to transfer, graduate, and other students who have previously been unable to schedule military science. This program provides the student with all ROTC books and uniforms and a monetary allowance of \$50.00 per month. Before starting the two-year program, students are required to complete a six-weeks preparatory summer training camp between their sophomore and junior years. This summer camp is taken in lieu of the Basic Course. The student then participates in the regular Advanced Course during his junior and senior years. Students interested in the two-year program should consult the professor of military science.

Curriculum Notes

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

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

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

Elective subjects may be chosen from the following general academic areas for utilization in the junior and senior year.

- I. Effective communications
- II. Science Comprehension
- III. General psychology

NURSING

Associate in Science in Nursing Degree

The Department of Nursing offers a program in basic nursing leading to the A.S. in Nursing degree. The purpose of the program is to prepare students for careers as registered nurses. The graduates of this program are eligible to write the state board test pool examinations for registered nurses and to accept beginning positions as registered nurses. The program is approved by the West Virginia State Board of Examiners for Registered Nurses and is accredited by the National League for Nursing.

In addition to the general university requirements regarding application for admission and transcripts, the department requires a personal interview. Prospective students are advised to take high school courses in biology and chemistry as a part of their preparation for work in nursing. These courses, however, are not required for admission to the collegiate nursing program.

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

There are no specific age limitations for admission to the program so long as all other entrance requirements are met. Applicants who are married or who wish to marry during the course of the program are acceptable if all other admission requirements are met.

Enrollment in the Department of Nursing is limited to approximately 50 students each year. Applications for this program are considered in the order in which they are received.

Unsuccessful applicants for admission to the nursing program may take university science courses. They should maintain a quality point average of 2.5 or better on all academic work attempted to be considered for admission to the next class.

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

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

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

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

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

Curriculum

First Year

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	6	Nursing 102	6
	<u>16</u>		<u>16</u>

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Sociology 200	3	Nursing 211	8
Nursing 204	5	Nursing 210	3
Nursing 214	5	Botany 302	4
Psychology 311	3	Elective	2
	<u>16</u>		<u>17</u>

School of Business

The purpose of the School of Business is to prepare men and women for careers in business. As a means of accomplishing this purpose, business majors complete a well-rounded curriculum that includes a broad foundation in the liberal arts, a required core of courses in the basic areas of business administration, and a specialization selected from five business areas.

Degree Programs in Business

The following degree programs are offered in the School of Business:

1. Associate in Science degree
 - a. Two-year secretarial
2. The Bachelor of Business Administration degree
 - a. Accounting major
 - b. Finance major
 - c. Marketing major
 - d. Management major
 - e. Office administration major
3. Master of Business Administration degree
 - a. Accounting major
 - b. Finance major
 - c. Management major
 - d. Marketing major

A complete description of the MBA program is given in the Catalog of the Graduate School.

Organization

The undergraduate program of the School of Business is organized into five departments:

1. The Department of Accounting
2. The Department of Finance
3. The Department of Management
4. The Department of Marketing
5. The Department of Office Administration

REQUIREMENTS FOR THE B.B.A. DEGREE

General

Candidates for the B.B.A. degree must earn a minimum of 128 semester hours: 56 hours in the General Core area, 27 hours in the Business Core area, and completion of the specific requirements set forth in one of the business administration curriculums.

TWO-YEAR CURRICULUM

Associate in Science Degree

For those who may not be able, or may not wish to complete four years of college work, a two-year special curriculum has been organized. This course serves three purposes: (1) it enables the student to avoid rambling aimlessly through a number of unrelated courses merely to say that he has attended college for a certain length of time; (2) it enables the student to prepare for a vocation or phase of work in which he may be interested; (3) it gives the student a feeling of satisfaction for having completed a course of study.

Upon the completion of this course, the student may be granted the degree of Associate in Science. However, after the completion of the two-year course the student may, if he wishes, continue toward a baccalaureate degree.

*SECRETARIAL

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	Science elective	4
Accounting 215	3	Office Administration 202***	3
Speech 103	3	Accounting 216	3
Physical education	1	Physical education	1
	15		16

*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.

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

***If a student has not completed one year of shorthand in high school, he must take OAD 201 before taking OAD 202.

Second Year

First Semester	Hrs.	Second Semester	Hrs.
Economics 241	3	Economics 242	3
Management 307	3	Marketing 340	3
Management 320	3	Office Administration 302	3
Office Administration 301	3	Psychology 201	3
Office Administration 305	3	Electives	4
Electives	2		
	<hr/>		<hr/>
	17		16

Total hours required for degree - 64

FOUR-YEAR CURRICULUMS

Business Administration

Areas of concentration within the School of Business are: Accounting, finance, management, marketing, and office administration. All curriculums lead to the B.B.A. degree.

ALL CURRICULUMS
(Except office administration)

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
Physical education	1	Speech 202-207	2-3
International inst. elective	3	Physical education	1
	<hr/>		<hr/>
	17		17-18

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

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		
	<hr/>		<hr/>
	18		18

ACCOUNTING

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Accounting 311	3	Accounting 312	3
Finance 323	3	Management 318	3
Management 307	3	Management 308	3
Accounting elective*	3	Elective	3
Elective	3	Accounting 348	3
	<hr/>		<hr/>
	15		15

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Accounting 347	3	Accounting 413	3
Accounting 414	3	Management 424	3
Accounting elective*	3	Humanities elective	3
Inter. inst. elective	3	Electives	6
Elective	3		
	<hr/>		<hr/>
	15		15

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

FINANCE

Third Year

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

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Finance electives*	9	Finance electives	6
Electives	6	Electives	9
	<hr/>		<hr/>
	15		15

MANAGEMENT

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Finance 323	3	Management electives**	9
Management 307	3	Electives	6
Management 318	3		
Management elective**	3		
Electives	3		
	<hr/>		<hr/>
	15		15

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Management 420	3	Management 422	3
Management 424	3	Management 426	3
Management elective**	3	Management 460	3
Electives	6	Electives	6
	<hr/>		<hr/>
	15		15

*Finance electives: Finance majors must select five or six of the following courses. Management 308, Accounting 348, Economics 310, Economics 326, Finance 335, Finance 430, Finance 435, Office Administration 425.

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

MARKETING

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Management 307	3	Management 318	3
Inter. inst. elective	3	Management 320	3
Humanities elective	3	Finance 323	3
American inst. elective	3	Marketing 350	3
Elective	3	Elective	3
	15		15

Fourth Year

First Semester	Hrs.	Second Semester	Hrs.
Finance 327	3	Management 424	3
Marketing 341	3	Marketing 425	3
Marketing 440	3	Marketing 430	3
Electives	6	Marketing 436	3
	15	Marketing 442	3
			15

*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	Physical education	1
Physical education	1		
	16		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.

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

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

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 202-207	2-3
		Fine arts elective	2-3
	<hr/>		<hr/>
	17		16-18

Third Year

First Semester	Hrs.	Second Semester	Hrs.
Office Administration 305	3	Management 318	3
Management 307	3	Management 320	3
American inst. elective	3	Office Administration 404	3
Humanities elective	3	American inst. elective	3
		Humanities elective	3
		Elective	2-3
	<hr/>		<hr/>
	15		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 425	3		
Inter. inst. elective	3		
	<hr/>		<hr/>
	15		15

*If a student has not completed one year of shorthand in high school, he must take OAD 201 before taking OAD 202.

GENERAL CORE COURSES

		Hours
*Required		
English/Speech:		(11-12)
*English 101	3	Speech 202
*English 102	3	Speech 207
*Speech 103	3	
Humanities:		(6)
(any 2 courses)		
Bible and Religion 300	3	English 450
Bible and Religion 301	3	English 451
Bible and Religion 315	3	Philosophy 201
English 300	3	Philosophy 303
English 301	3	Philosophy 304
English 408	3	
American Institutions:		(6)
(any 2 courses)		
Economics 342	3	Political Science 381
Economics 448	3	Political Science 383
History 312	3	Sociology 310
History 313	3	Sociology 342
Political Science 201	3	Sociology 400
Political Science 303	3	Sociology 439
Political Science 307	3	
International Institutions:		(6)
(Any 2 courses)		
Geography 203	3	Political Science 309
Geography 405	3	Political Science 405
Economics 408	3	Political Science 406
History 315	3	Political Science 407
History 302	3	Political Science 408
History 322	3	Political Science 409
History 375	3	Political Science 411
History 427	3	Anthropology 301
Fine Arts:		(2-3)
Art 112	2	Art 404
Art 401	3	Art 405
Art 402	2	Music 175

This requirement may be met by 2 or 3 hours in university approved courses in Applied Music.

Mathematics:		(8)
Mathematics 120	3	Mathematics 190 5
or any 2 courses above this level.		
Behavioral Sciences:		(6)
(Both Required)		
Psychology 201	3	Sociology 200 3
Natural Sciences:		(7-8)
(Any 2 of the following courses may be taken as a 2-course sequence, or by taking the beginning course in two of the areas listed.)		
Biological Science 201	4	Geology 200 3-4
Biological Science 202	4	Geology 201 3-4
Botany 302	4	Geology 314 4
Botany 305	3	Geology 424 4
Botany 415	4	Geology 451 3
Botany 418	4	Physics 200 4
Chemistry 203	4	Physics 201-202 4
Chemistry 204	4	Physics 400 3
Physical education:		(2)
Two one hour courses		
or military science	2	

BUSINESS CORE COURSES

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

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.
Art 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.
General Engineering 203. Computational Methods. 3 hrs.

INTERNATIONAL AFFAIRS

Courses in economics, geography, history, modern languages, and political science. See page 146.

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)

Professor Kyle G. McMullen, Chairman

SCHOOL OF BUSINESS

Associate Professors McMullen, Webb
Assistant Professors Janssen, E. Miller
Instructor Adkins

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 311.
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 347.

ART
(ART)

Dr. Arthur Carpenter, Chairman

TEACHERS COLLEGE

Professor Carpenter
Associate Professor Kilgore
Assistant Professors Cornfeld, Dolin, Ertresvaag
Instructors Allen, Hutton, McKeegan

- 101-102. DRAWING. 3;3 hrs. I, II.
Freehand drawing with emphasis on drawing from nature and the posed model, using a variety of media.
PR: Open to art majors and minors only. Others must have the permission of the Chairman of the Department of Art.
112. ART APPRECIATION. 2 hrs. I, II, S.
Significance of art in everyday living. Required of all students in the Teachers College.
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 AND DESIGN IN DRAWING AND PAINTING. 3 hrs.
Design elements studied as to their use in conveying compositional ideas and practical use of these ideas and elements in original compositions in a variety of traditional media.
PR: Art 101 and 102.
214. INTRODUCTION TO DESIGN. 3 hrs.
Basic and related problems in design dealing with the plastic elements -- line, color, form, space, and texture.
PR: Art 101.
215. THREE-DIMENSIONAL DESIGN. 2 hrs.
Design in advertising layouts, merchandise display, and container design.
305. CERAMICS. 2 hrs.
Advanced design problems in clay. Students will be involved in methods of producing ceramic forms by hand and with the potter's wheel and in problems of firing and glazing.
PR: Art 214 and/or Art 215.
306. DESIGN IN METAL. 2 hrs.
Advanced design in metal. Emphasis on copper, silver, pewter, brass. Problems involve soldering, enameling, and shaping metal by hand.
PR: Art 214 or Art 215.
307. SCULPTURE. 3 hrs.
Emphasis on modeling in clay and exploring the potential of plaster, wood and other materials relevant to the area of sculpture.
PR: Art 101 and 102.
340. ART EDUCATION: CRAFTS. 3 hrs. I, II, S.
Philosophy and methods of art education supplemented by laboratory experiences featuring crafts for students in early childhood and elementary education. 1 lec-3 lab.
PR: Art 113.
- 350-351. WATERCOLOR PAINTING. 3; 3 hrs.
Watercolor medium in expressing still life, landscape, and the human figure.
PR: Art 101 and 102.
360. PAINTING MEDIA. 3 hrs.
Projects in egg tempera, fresco, mixed media, and gilding.
PR: Junior or senior standing and Art 101 and Art 102.

- 401-402. HISTORY OF ART. 3; 3 hrs. I, II.
A survey of the development of architecture, sculpture, painting, and the minor arts to ca. 1400 A.D. and from 1400 A.D. to the present.
403. ORIENTAL ART. 3 hrs.
A historical survey of the architecture, painting, and sculpture of China, Indonesia, and Japan.
404. 20th CENTURY ART. 3 hrs.
A survey of the development of architecture, painting and sculpture in the western world during the present century.
405. ART IN AMERICA. 3 hrs.
A survey of the development of architecture, painting, and sculpture from colonial times to the present.
406. FIGURE DRAWING. 3 hrs.
Practice in drawing from the posed human figure.
PR: Art 101 and 102.
- 455-456. PAINTING: ACRYLIC AND OIL. 3; 3 hrs.
Study and practice of painting in expressing abstract still life, landscape, and the human figure.
PR: Art 102 and 203.
460. ART EDUCATION: HISTORY AND PHILOSOPHY OF ART EDUCATION. 3 hrs.
A survey of the evolution of art education, philosophy, and a study of problems related to art education on the elementary and high school levels.
PR: Art 340.
- 461-462-463. SPECIAL TOPICS. 1-3; 1-3; 1-3 hrs.
470. GRAPHIC PROCESSES. 3 hrs.
Experiments in the media of etching, dry point, lithography, and wood cuts as means of pictorial expression.

**BIBLE AND RELIGION
(BR)**

Dr. Louis B. Jennings, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Humanities)

Professor Jennings
Associate Professor Goodwin

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 OR RELIGION. 3 hrs.
An analysis of the nature of religious personalities, institutions, literature, philosophies, experiences, and education.
301. INTRODUCTION TO THE STUDY OF RELIGION: FUNCTION OF RELIGION. 3 hrs.
A correlation of religion with the different areas of life; natural sciences, humanities, social sciences, philosophy, ethics, education.
302. OUTLINES OF CHURCH HISTORY. 3 hrs.
The historical development of Christianity from the first century to the present.
304. THE TEACHINGS OF JESUS. 2 hrs.
An analysis of the Gospels and a systematic study of the message of Jesus.
310. THE HEBREW PROPHETS. 2 hrs.
The rise of the office of prophet and the contributions of prophecy to religion.
315. PSYCHOLOGY OF RELIGION. 3 hrs.
An examination of the factors in individual and group religious experiences.

323. HISTORY OF RELIGIOUS THOUGHT IN AMERICA. 3 hrs.
The rise and development of religion and of religious thinking in America.
418. DEVELOPMENT OF RELIGIOUS IDEAS. 3 hrs.
A study of the sources of religious thought in western culture.
419. RELIGIOUS THOUGHT IN THE WESTERN WORLD. 3 hrs.
An analysis of the major schools of religious thought as they have developed in the West.
420. RECENT AND CONTEMPORARY RELIGIOUS THOUGHT. 3 hrs.
A survey of the major currents of religious thinking in the twentieth century.
430. ORIGIN AND TRANSMISSION OF THE BIBLE. 3 hrs.
A study of the history of the canonization, textual transmission, and translations of the Bible.
450. SOCIOLOGY OF RELIGION. 3 hrs.
An investigation into the nature of religion as a social phenomenon.
- 495H-496H. READINGS FOR HONORS IN BIBLE AND RELIGION.
4; 4 hrs.
Open only to Bible and religion majors of outstanding ability. Both courses must be taken in order to receive credit.

BIOLOGICAL SCIENCES

Dr. Harold E. Ward, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Sciences)

Professors Ward, Fisher, Green, Mills, Plymale, Warren
Associate Professors Ash, Gillespie, Shoemaker, Tarter
Assistant Professors Bird, Brumfield, Frum, Jinks, Modlin, Gain
Instructors Connell, Jarrell, Kahle

Biological Science (BSC)

201. BIOLOGICAL SCIENCE (Biology of Plants). 4 hrs. I, II, S.
The fundamentals of biology, with emphasis on plant structures, functions, and classification, including cellular organization and processes which are common to both plant and animal life. 3 lec-2lab.

202. **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 201.
306. **FIELD BIOLOGY.** 4 hrs. II, S.
Identification, classification, habitats, and communities of animal and plant life in field and laboratory.
PR: 8 semester hours of biological science.
403. **BIOLOGICAL MICROTECHNIC.** 3 hrs. I.
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 202.
413. **(ZOO 413) PRINCIPLES OF ORGANIC EVOLUTION.** 2 hrs. I, S.
The progress of animal life through time and a discussion of known causes.
PR: Zoology 212.
430. **ECOLOGY.** 4 hrs. II, S.
The interrelationships of plants, animals, and environment. Local and world distribution of biotic communities.
PR: Botany 316 or consent of instructor.
431. **LIMNOLOGY.** 4 hrs. II, S.
The study of inland waters; ecological factors affecting lake and stream productivity and various aquatic communities.
482. **CONSERVATION OF FORESTS, SOIL AND WILDLIFE.** 3 hrs. I, S.
Primarily for teachers in the biological, general and applied sciences. Includes field work, seminars, and demonstrations on phases of conservation of forest, soil, and wildlife.

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

PR: 12 semester hours of science.

Botany (BOT)

302. GENERAL BACTERIOLOGY. 3 hrs. I, II, S.
Basic microbiological techniques, fundamental principles of microbial action, physiological processes, immunology, serology, disease process. 2 lec-4 lab.
PR: Biological Science 201 (or equivalent), or one year chemistry.
402. BACTERIOLOGY: SPECIAL TOPICS. 1-3 hrs.
PR: Botany 302.
405. ECONOMIC BOTANY. 3 hrs. I.
Plants used by man for food, ornamental purposes, building materials, textiles and other industrial purposes; economic importance of conservation. No laboratory.
410. SPECIAL TOPICS. 1-4 hrs. I, II, S.
By permission of instructor and consent of department chairman.
415. PLANT MORPHOLOGY. 4 hrs. I, S.
Characteristics of the great plant groups. Discussion of important steps in the development of plants. 2 lec-4 lab.
PR: Biological Science 201 or equivalent.
416. PLANT TAXONOMY. 4 hrs. II, S.
Recognition of our native seed plants and ferns. 2 lec-4 lab.
PR: Biological Science 201 or equivalent.
418. MYCOLOGY AND PLANT PATHOLOGY. 4 hrs. I.
Nature, cause and control of plant disease. 2 lec-4 lab.
Biological Science 201 or equivalent.

Zoology (ZOO)

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

225. HUMAN BIOLOGY. 4 hrs. I, II.
Structure and function of the human organism. Open to candidates for the A.S. degree in Nursing.
300. HISTOLOGY. 4 hrs. II.
Microscopic study of vertebrate tissues. 2 lec.-4 lab.
PR: Biological Science 202.
301. VERTEBRATE EMBRYOLOGY. 4 hrs. I, S.
Vertebrate development based chiefly on frog, chick and pig embryos. 2 lec-4 lab.
PR: Biological Science 202.
302. COMPARATIVE VERTEBRATE ANATOMY. 4 hrs. II, S.
Principles of structure, function and relationships of vertebrate systems with emphasis on the dogfish and cat. 2 lec-4lab.
PR: Biological Science 202.
315. HUMAN ANATOMY AND PHYSIOLOGY. 4 hrs. II, S.
The structure and functions of the human body. 3 lec-2 lab.
PR: Biological Science 202. Not open to students with credit in Zoology 300, 301 or 302.
402. VERTEBRATE NATURAL HISTORY. 3 hrs. II, S.
The origin, classification, life histories, habits and distribution of fishes, amphibians, reptiles and mammals. 1lec-4 lab.
PR: Zoology 212.
403. ENTOMOLOGY. 3 hrs. S.
Anatomy, classification, life histories and economic importance of representative insects. 1 lec-4 lab.
PR: Zoology 212.
407. (BSC 407) GENETICS. 4 hrs. I, S.
The fundamental principles and mechanisms of inheritance including their human application.
PR: Biological Science 202.
408. ORNITHOLOGY. 3 hrs. II, S.
Identification, distribution, migration and breeding activities of birds. 2 lec-2 lab.
413. (BSC 413) PRINCIPLES OF ORGANIC EVOLUTION. 2 hrs. I, S.
The progress of animal life through time with a discussion of known causes.
PR: Zoology 212.

424. ANIMAL PARASITOLOGY. 4 hrs. I, II or S.
Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab.
PR: Zoology 212.
426. MEDICAL ENTOMOLOGY. 4 hrs. I, II, or S.
Role of certain insects and other arthropods in the transmission of disease organisms and methods of control. 2 lec-4 lab.
PR: Zoology 212.
- 450-451-452. SPECIAL PROBLEMS. 1-3; 1-3; 1-3 hrs. I, II, S.
By permission of instructor and department chairman.

CHEMISTRY* (CHM)

Dr. Edward S. Hanrahan, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Sciences)

Professors Chakrabarty, Douglass, Hanrahan, Hoback, Lepley
Associate Professors Kong, Roberts, Sharma
Assistant Professors Larson, Lemke, Littler, Mosher

100. ELEMENTARY CHEMISTRY 4 hrs. I, II, S.
Open to candidates for the A.S. degree in Nursing. Includes topics from chemical principles, inorganic, organic, and biochemistry. Not open to students planning to enter professional schools. 3 lec-3 lab.
- 190H-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. 4 hrs. I, S.
An introduction to chemical science, its development, basic concepts and interrelationships with other sciences. Intended primarily for non-science majors and A.B. degree candidates. 3 lec-3 lab.

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

204. GENERAL CHEMISTRY II. 4 hrs. II, S.
A continuation of Chemistry 203 with emphasis on introductory organic and biochemistry. 3 lec-3 lab.
PR: Chemistry 203 or junior standing.
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.
CR: Chemistry 213.
212. PRINCIPLES OF CHEMISTRY II. 3 hrs. I, II, S.
A continuation of Chemistry 211.
PR: Chemistry 211.
CR: Chemistry 214.
213. CHEMICAL PRINCIPLES IN THE LABORATORY. 1 hr. I, S.
An introduction to laboratory methods of experimentation.
214. CHEMICAL PRINCIPLES IN THE LABORATORY II. 1 hr. I, II, S.
Introduction to and application of basic experimental methods for the study of matter.
PR: Chemistry 211, 213.
217. INTRODUCTORY ORGANIC CHEMISTRY AND LABORATORY. 5 hrs. I.
A short study of organic chemistry open to students in home economics, medical technology, and science majors in the Teachers College. 3 lec-6 lab.
PR: Chemistry 212 or 204.
227. INTRODUCTORY ORGANIC CHEMISTRY. 3 hrs. I.
A short study of organic chemistry. Open to students in the College of Applied Science.
PR: Chemistry 212 or 204.
255. ORGANIC CHEMISTRY I. 5 hrs. I, S.
A systematic study of organic chemistry. 3 lec-6 lab.
PR: Chemistry 212 or 204.
256. ORGANIC CHEMISTRY II. 5 hrs. II, S.
Continuation of Chemistry 255 and qualitative organic analysis. 3 lec-6 lab.
PR: Chemistry 255.

- 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.
PR: Chemistry 217 or 256.
301. INTRODUCTORY BIOCHEMISTRY LABORATORY. 1 hr. II.
Introduction to methods of identification and characterization of biochemical systems.
PR or CR: Chemistry 300.
305. CHEMICAL LITERATURE. 1 hr.
PR or CR: Chemistry 256.
307. INTRODUCTORY PHYSICAL CHEMISTRY. 3 hrs. II.
PR: Chemistry 217, 227 or 256.
- 331-332. CHEMISTRY SEMINAR. Credit. I, II.
A graduation requirement for all juniors seeking the B.S. in Chemistry degree.
345. QUANTITATIVE ANALYSIS. 3 hrs. I, S.
A systematic study of classical and modern analyses. 2 lec-3 lab.
PR: Chemistry 212, 214.
357. PHYSICAL CHEMISTRY I. 3 hrs. I.
A systematic study of physical chemistry. 3 lec.
PR: Chemistry 256, eight hours of physics, Mathematics 220.
CR: Mathematics 231.
358. PHYSICAL CHEMISTRY II. 5 hrs. II.
Continuation of Chemistry 357, 3 lec-6 lab.
PR: Chemistry 357, Mathematics 231.
- 390H-391H. HONORS IN CHEMISTRY. 1 hr. I, II, S.
Independent study programs for outstanding students.
PR: Permission of the department chairman.
- 401-402. RESEARCH FOR UNDERGRADUATES. 1-4; 1-4 hrs. I, II, S.
PR: Permission of instructor and department chairman.
410. ADVANCED CHEMICAL PREPARATIONS. 3 hrs. I, S.
The syntheses of organic and inorganic compounds which use specialized techniques. 1 lec.-6 lab.
PR: Chemistry 256.

- 431-432. CHEMISTRY SEMINARS. Credit. I, II.
A graduation requirement for all seniors seeking the B.S. in Chemistry degree.
447. THE NATURE OF CHEMICAL BONDING. 3 hrs. I.
A modern viewpoint of structural chemistry with examples from inorganic and organic chemistry. 3 lec.
PR: Chemistry 358.
448. ADVANCED INORGANIC CHEMISTRY. 2 hrs. II.
PR: Chemistry 447.
456. INSTRUMENTAL ANALYSIS. 4 hrs. I, S.
A study of use and applications of modern analytical instruments and techniques. 2 lec.-6 lab.
PR: Chemistry 345.
462. NUCLEAR CHEMISTRY AND PHYSICS. 3 hrs. II.
Introduction to the phenomena of nuclear physics and chemistry. 3 lec.
PR: Mathematics 231 and Physics 320 or consent of instructor.
463. NUCLEAR CHEMISTRY AND PHYSICS LABORATORY. 2 hrs. II.
4 lab.
CR: Chemistry 462.
466. ORGANIC QUALITATIVE ANALYSIS. 3 hrs. I.
The identification of organic compounds with the aid of modern instruments. 1 lec-6 lab.
PR: Chemistry 256.
475. ADVANCED BIOCHEMISTRY. 3 hrs. I, II.
A discussion of energy relationships in biological systems and the mechanism of metabolism.
PR: Chemistry 300 or consent of instructor.
476. ADVANCED BIOCHEMISTRY LABORATORY. 2 hrs. II.
Advanced laboratory methods of preparation, purification and characterization of biochemical systems.
PR: Chemistry 475.
480. QUANTUM MECHANICS. 3 hrs.
An introductory course in quantum mechanics. 3 lec.
PR: Mathematics 231.
482. ADVANCED ORGANIC CHEMISTRY. 3 hrs. II.
PR: Chemistry 447.

495H-496H. HONORS IN CHEMISTRY. 4; 4 hrs. I, II, S.

Open only to chemistry majors of outstanding ability. Both courses must be taken to receive credit.

See Honors Courses, page 60.

CLASSICAL LANGUAGES

Dr. Louise P. Hoy, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Humanities)

Professor Hoy

Greek (GRK)

201-202. FIRST YEAR GREEK. 3; 3 hrs. I, II. Offered 1971-72.
No credit for 201 without 202.

301-302. INTERMEDIATE GREEK. 3; 3 hrs. I,II. Offered 1971-72.
Homer's Iliad, Dialogues of Plato, New Testament.
PR: Greek 202 or equivalent.

Latin (LAT)

101-102. FIRST YEAR LATIN. 3; 3 hrs. I, II.
No credit for 101 without 102.
Students presenting one unit of high school Latin, enroll in Latin 102.

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

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

306. SELECTIONS FROM HORACE. 3 hrs.

307. CICERO'S LETTERS. 3 hrs.

309. LIVY'S HISTORY OF ROME. 3 hrs.
312. TACITUS: ANNALS, GERMANIA. 3 hrs.
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, page 60 .

Classics (CL)

General humanities courses, open to all juniors and seniors. Courses given in English. They do not fulfill the foreign language requirement.

319. MYTHOLOGY. 2 hrs. II.
322. LATIN LITERATURE IN TRANSLATION. 2 hrs. II.
435. GREEK CIVILIZATION. 3 hrs. I.
436. ROMAN CIVILIZATION. 3 hrs. II.

**CYTOTECHNOLOGY
(CYT)**

Dr. Howard L. Mills, Director

COLLEGE OF APPLIED SCIENCE

Clinical Professors Werthammer, Sadler
Associate Clinical Professor Sheils,
Clinical Instructor Dixon

431. CYTOLOGICAL METHODOLOGY. 6 hrs. I.
Routine and special methods in cytology including specimen processing. Clinical microscopy including routine and special microscopic methods using dark field, phase and polarized light techniques.
432. ELEMENTARY CYTOLOGY. 6 hrs. I.
General and specific fundamentals of cytology for determining cell structure and embryology, including the cytology of specialized tissue.
433. GENITAL CYTOLOGY. 6 hrs. II.
Cytology in health and disease of the female genital tract. Endocrinological considerations.
434. NONGENITAL CYTOLOGY. 6 hrs. II.
Cytology in health and disease of respiratory, urinary and gastrointestinal tracts.
435. CYTOLOGY OF SOME GLAND SECRETIONS, EXUDATES AND TRANSUDATES. 4 hrs.
Breast secretions, fluids from serous cavities, etc.
436. ADVANCED METHODS IN CYTOLOGY. 3 hrs. S.
Elementals of tissue culture, chromosome analysis and photomicrography.
437. SEMINAR. 1 hr. S.
Record keeping, follow-up, administration and professional relations.

**ECONOMICS
(ECN)**

Dr. Joseph S. La Cascia, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professor La Cascia
Associate Professors Akkihal, Cook, Corrie
Assistant Professors Contopoulos, Pathak
Instructor Bleau

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.
242. PRINCIPLES OF ECONOMICS. 3 hrs. I, II, S.
Production, exchange and distribution of wealth and income in capitalistic economy.
300. SURVEY OF ECONOMICS. 3 hrs. I, II, S.
The principles course in one semester for designated students in the Teachers College 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 242, 300 or equivalent.
312. THE REGULATION OF PUBLIC UTILITIES. 3 hrs. I.
Public control of industries in the utility field; rate of return, valuation of assets, adequacy of service.
PR: Economics 242, 300, or equivalent.
320. PUBLIC FINANCE. 3 hrs. II.
Governmental revenue, expenditures, and debt; the use of fiscal policy.
PR: Economics 242, 300, or equivalent.

322. QUANTITATIVE METHODS. 3 hrs.
Modern mathematical methods for use in economics and other social sciences.
PR: Economics 242, Mathematics 110, or equivalent.
326. NATIONAL INCOME, EMPLOYMENT, AND GROWTH. 3 hrs. II.
National income accounting; macro-economic theories of output determination, employment, inflation, and growth; monetary and fiscal policies.
PR: Economics 242, 300, or equivalent.
328. INTERMEDIATE PRICE THEORY. 3 hrs. I.
Micro-economic theories of the production and pricing of goods and services, payments to the factors of production.
PR: Economics 242, 300, or equivalent.
342. ECONOMIC DEVELOPMENT OF THE UNITED STATES. 3 hrs. I.
History of the economy; political-economic determinants of growth patterns; the evolution of corporations, unions, and other institutions.
PR: Economics 242, 300, or equivalent.
346. LABOR PROBLEMS. 3 hrs. I, II.
Ideologies, organizations, and policies of labor and management; impact of labor-management relations on the political economy.
PR: Economics 242, 300, or equivalent, or consent of the instructor.
348. LABOR AND GOVERNMENT. 3 hrs.
Relationships between labor and government; economic results of laws affecting labor-management relations.
PR: Economics 242, 300, or equivalent, or consent of the instructor.
351. GOVERNMENT AND BUSINESS. 3 hrs.
Business ideologies and organizations; the business system within the economy; anti-trust and other laws.
PR: Economics 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 242, 300, or equivalent, or consent of the instructor.
360. ECONOMIC DEVELOPMENT. 3 hrs.
A study of the problems, dynamics and policies of economic

growth and development in underdeveloped and developed countries.
PR: Economics 242, 300, or equivalent.

402. BUSINESS CYCLES. 3 hrs. II.
Description and history of the business cycle; theories of the cycle; forecasting; monetary and fiscal policies for stabilization.
PR: Economics 242, 300 or equivalent.
408. COMPARATIVE ECONOMIC SYSTEMS. 3 hrs.
Marxism, capitalism, communism, fascism and socialism considered as theories, movements and actual political economies.
PR: Economics 242, 300, or equivalent.
410. THE SOVIET ECONOMIC SYSTEM. 3 hrs.
Resources and institutions of the U.S.S.R.; ideological and historical background; central planning; economic development.
PR: Economics 242, 300, or equivalent.
415. REGIONAL ECONOMICS. 3 hrs.
A study of location theory and regional development within a framework of economic theory.
PR: Economics 242.
420. INTERNATIONAL TRADE AND EXCHANGE. 3 hrs. I.
Movement of goods and balance of payments among nations; exchange rates; exchange controls and tariffs; problems and policies.
PR: Economics 242, 300, or equivalent.
430. MANAGERIAL ECONOMICS. 3 hrs. I.
The use of economic principles by management; pricing, sales policies, budgeting, forecasting, inter-firm relations.
PR: Economics 328 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 242, 300, or equivalent.
448. AMERICAN ECONOMIC THOUGHT. 3 hrs. II.
Contribution of American scholars of economic doctrines; emphasis on the Institutional and Neo-Classical Schools.
PR: Economics 242, 300 or equivalent.
461. ECONOMIC EDUCATION WORKSHOP. 3 hrs. S.
Intensive review of subject matter and teaching methods in economics designed for elementary and high school teachers.
PR: Consent of instructor or grant of scholarship.

471-472. SEMINAR IN SPECIAL TOPICS. 2-4; 2-4; hrs. I, II.

Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.

PR: Nine hours of economics, senior standing, and consent of the instructor.

481-482. DIRECTED RESEARCH. 2-4; 2-4 hrs. I, II.

A research project conducted by a qualified student under guidance of a member of the department; involves gathering of data, interpretation, and presentation of findings in a written report.

PR: Twelve hours of economics, senior standing, and consent of the instructor, department chairman, and the student's academic dean.

495H-496H. READINGS FOR HONORS IN ECONOMICS. 4; 4 hrs. I, II.

Open only to economics majors of outstanding ability. Both courses must be taken in order to receive credit.

See Honors Courses, page 60 .

EDUCATION

TEACHERS COLLEGE

Art Education

Listed under Art

Counseling and Rehabilitation (CR)

Dr. Clarke Hess, Chairman

Professors Hess, Wallace
Associate Professor Dingman
Assistant Professor Meadows

306. INTRODUCTION TO REHABILITATION. 3 hrs. I.

Introduction to the field of rehabilitation, various mental, physical and social disabilities, careers in rehabilitation, rehabilitation services and orientation process. Two clock hours per week of laboratory.

PR: Sophomore standing or permission of instructor.

406. REHABILITATION SERVICES. 3 hrs. II.

Introduction to services provided by rehabilitation agencies with emphasis upon diagnosis, physical restoration, training and job placement with associated medical, occupational and counseling information as applied to areas of service. Two clock hours per week of laboratory.

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 and 406. Senior standing, majors only and overall 2.0 average.
408. SPECIAL PROBLEMS IN REHABILITATION. 3 hrs. I.
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.
425. INTERVIEWING PROCEDURES. 3 hrs. II.
Principles and practices of the interviewing relationship in helping service settings.
PR: Permission of instructor.
- 482-483-484-485. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs. I, II, S.
PR: Permission of department chairman.
490. PRINCIPLES AND PRACTICES OF GUIDANCE. 3 hrs. I, II, S.
The objectives, principles, and practices of guidance.

Curriculum and Instruction (CI)

Dr. Bernard Queen, Chairman

Professors Jenkins, Queen

Associate Professors Bauer, Campbell, Collins, Felty, Fulks,
Jervis, Koontz, Regula, Suiter, Tucker, Turner, Wellman, B. Wright

Assistant Professors Dailey, Davis, Dilley, Everett, Ferguson, Hale,
Hall, Hanger, Harvey, Hunter, Jarrett, Nichols, Pett, Royer,
Rummell, T. Smith, Sowards, Vass, Wideman

Instructors Clark, Crowe, Douglas, Mathews, Plumley, K. Wright.

101. MATHEMATICS EDUCATION: MATHEMATICS FOR ELEMENTARY TEACHERS, I. 3 hrs.
Historical development of the concept of numbers, mathematical concepts in the field of arithmetic and algebra; interpretation of data, computational topics and elementary number theory. Diagnostic and remedial work.
201. MATHEMATICS EDUCATION: MATHEMATICS FOR ELEMENTARY TEACHERS, II. 3 hrs. I, II, S.
Foundations of elementary mathematics, mathematical systems, the structure of the number system, basic algebraic operation, and the ideas

and principles of informal geometry. Problem solving applications, the nature of mathematical models.

PR: Mathematics Education 101.

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 ARITHMETIC.
2 hrs. I, II, S.
Organization of subject matter in grades 1-9; the relation of arithmetic to the whole curriculum; presentation of teaching procedures, and the study of testing program.
PR: Mathematics Education 201.
307. SCIENCE EDUCATION: SCIENCE IN THE ELEMENTARY SCHOOL.
3 hrs. I, II, S.
Methods and techniques of presenting science in the classroom and laboratory. Weather, rocks and minerals, astronomy, electricity and magnetism. For teachers of nursery schools, kindergartens, and grades 1-6.
PR: Six hours of biological or physical science.
367. EARLY CHILDHOOD EDUCATION: ORGANIZATION AND ADMINISTRATION. 3 hrs.
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. Related classroom observations required.
PR: Educational Foundations 319; Home Economics 303.
400. ELEMENTARY EDUCATION. 2-4 hrs. I, II, S.
The learning environment of the elementary school, problems in the structure and use of knowledge, manners and methods of helping students learn procedures and techniques in teaching in the elementary school, including the undergirding assumptions of the modern elementary school, philosophy of education, guidance, and educational media.
PR: Educational Foundations 319.
CR: Curriculum and Instruction 405.
405. ELEMENTARY EDUCATION: SUPERVISED STUDENT TEACHING.
4-8 hrs. I, II, S.

All-day teaching under supervision in cooperating public schools.
PR: Curriculum and Instruction 443.
CR: Curriculum and Instruction 400.

409. EARLY CHILDHOOD EDUCATION: EARLY CHILDHOOD CURRICULA. 3 hrs. I, II.
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.
Cr: Curriculum and Instruction 410.
410. EARLY CHILDHOOD EDUCATION: SUPERVISED STUDENT TEACHING. 8 hrs. I, II.
Practicum for students majoring in early childhood education. All-day teaching under supervision in kindergarten and elementary schools.
CR: Curriculum and Instruction 409.
420. SPECIAL EDUCATION: INTRODUCTION TO EXCEPTIONAL CHILDREN. 3 hrs. I, II, S.
An introduction to the study of children who deviate from the average in mental, physical, and social characteristics, including a study of the characteristics of such children and the adaptation of educational procedures to their abilities and disabilities.
CR: Educational Foundations 319.
433. SPECIAL EDUCATION: THE MENTALLY RETARDED CHILD. 3 hrs. I, II, S.
Acquaints teachers with the characteristics and needs of the mentally retarded child. The status of the mentally retarded in our society and the impact of mental retardation on education.
PR: Curriculum and Instruction 420 or permission of instructor.
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.
441. SECONDARY EDUCATION: LITERARY MATERIALS FOR ENGLISH AND SOCIAL STUDIES. 3 hrs. I, S.
To acquaint teachers of English and social studies with a variety of literary selections suitable for students, grades 7-12.
PR: Educational Foundations 319.

443. ELEMENTARY EDUCATION: TEACHING READING IN ELEMENTARY SCHOOLS. 3 hrs.
Presenting modern techniques and practices in the teaching of reading.
PR: Educational Foundations 319.
444. SPECIAL EDUCATION: CHARACTERISTICS OF CRIPPLED CHILDREN. 3 hrs. I, II, S.
Psychological, social, emotional and educational problems which may accompany crippling conditions.
PR: Curriculum and Instruction 420.
445. SECONDARY EDUCATION: TEACHING READING IN SECONDARY SCHOOLS. 3 hrs. I, II, S.
Principles underlying the teaching of reading in junior and senior high schools.
PR: Educational Foundations 319 or permission of instructor.
450. SECONDARY EDUCATION: SUPERVISED STUDENT TEACHING. 3-8 hrs. I, II, S.
All-day teaching under supervision in cooperating public schools.
PR: Methods in teaching area.
453. SPECIAL EDUCATION: CURRICULUM DEVELOPMENT FOR TEACHERS OF THE MENTALLY RETARDED. 3 hrs. II, S.
Principles and current trends in curriculum development are reviewed and evaluated toward the development of specific curriculums for the mentally retarded. Methods and materials are presented in relation to this development.
PR: Curriculum and Instruction 420 or 433 or permission of instructor.
- 460-461. SCIENCE EDUCATION: SPECIAL PROBLEMS. 1-3 hrs. I, II, S.
By permission of department chairman.
PR: Junior and senior standing.
465. AUDIOVISUAL AIDS IN LEARNING. 3 hrs. I, II, S.
Utilization of audiovisual materials, equipment and techniques.
PR: Educational Foundations 319.
466. PRODUCTION OF AUDIOVISUAL AIDS. 3 hrs. I, S.
Basic techniques in making slides, photography, dry and wet mountings, feltboard materials, movies, tape recordings, and similar teaching aids.
PR: Curriculum and Instruction 465.

467. SECONDARY EDUCATION: TEACHING SOCIAL STUDIES.
2 hrs. I, II, S.
Survey of materials and methods for teaching social studies.
PR: Educational Foundations 319.
468. SECONDARY EDUCATION: TEACHING ART. 2 hrs. I, II.
Survey of materials and methods for teaching art.
PR: Educational Foundations 319.
469. SECONDARY EDUCATION: TEACHING BUSINESS EDUCATION.
2 hrs. I, II, S.
Survey of materials and methods for teaching business subjects.
PR: Educational Foundations 319.
470. SECONDARY EDUCATION: TEACHING ENGLISH. 2 hrs. I, II.
Survey of materials and methods for teaching English.
PR: Educational Foundations 319.
471. SECONDARY EDUCATION: TEACHING FOREIGN LANGUAGES.
2 hrs. I, II.
Survey of materials and methods for teaching the languages.
PR: Educational Foundations 319.
472. SECONDARY EDUCATION: TEACHING MATHEMATICS.
2 hrs. I, II.
Survey of materials and methods for teaching mathematics.
PR: Educational Foundations 319.
473. SECONDARY EDUCATION: TEACHING PHYSICAL EDUCATION.
2 hrs. I, II.
Survey of materials and methods for teaching physical education in grades 7-12. (men and women)
PR: Educational Foundations 319.
474. SECONDARY EDUCATION: TEACHING THE SCIENCES.
2 hrs. I, II.
Survey of materials and methods for teaching the sciences.
PR: Educational Foundations 319.
475. SECONDARY EDUCATION. 2-4 hrs. I, II, S.
Philosophy of teaching in the secondary school, curriculum planning, philosophy of education, guidance, audiovisual information, and teaching of reading.
PR: Educational Foundations 319.
CR: Curriculum and Instruction 450.

476. SECONDARY EDUCATION: TEACHING SPEECH. 2 hrs. I, II.
Survey of materials and methods for teaching speech.
PR: Educational Foundations 319.
- 482-483-484-485. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs. I, II, S.
Survey of materials and methods for teaching speech.
PR: Educational Foundations 319.
496. SPECIAL EDUCATION: STUDENT TEACHING WITH PUPILS
WITH CRIPPLING CONDITIONS. 3 hrs. I, II, S.
Teaching under supervision in cooperating public schools.
PR: Special Education 444 or consent of instructor.

Educational Foundations (EDF)

Dr. Harold Willey, Chairman

Professors Arhelger, Irvin, Willey
Associate Professors Khatena, Lichtenstein, Waite
Assistant Professors Barker, Harless, Morgan, Smith
Instructors Plymale

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.
PR: Educational Foundations 218 and junior standing.
406. FOUNDATIONS OF EDUCATION. 3 hrs. I, II, S.
A survey of the historical, philosophical and social foundations.
PR: Educational Foundations 319.
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.
417. STATISTICAL METHODS. 3 hrs. I, II, S.
Descriptive statistics, a foundation course in methods and analysis
for students in education and social sciences.
PR: Consent of instructor.

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.
460. PHILOSOPHY OF EDUCATION. 3 hrs. I, II, S.
Surveys basic philosophic schools and concepts and their application to educational practice.
PR: Educational Foundations 319 or permission of instructor.
- 482-483-484-485. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs. I, II, S.
PR: Permission of department chairman.

Home Economics Education

Listed under Home Economics

Mathematics Education

Listed under Curriculum and Instruction

Music Education

Listed under Music

Safety Education

Listed under Health, Physical and Safety Education

Science Education

Listed under Curriculum and Instruction

Special Education

Listed under Curriculum and Instruction

Vocational-Technical Education (VET)

Dr. Charles I. Jones, Chairman

Professor Jones
Assistant Professor Culnon

400. PHILOSOPHY OF VOCATIONAL EDUCATION. 3 hrs.
An overview of the historical origins of vocational education and

their relationship to major educational philosophies; study of the philosophical foundations of each area of vocational education; analysis of questions fundamental to an overall philosophy of vocational education.

410. DEVELOPING INSTRUCTIONAL MATERIALS FOR OCCUPATIONAL COURSES. 3 hrs.

Study of procedures for analyzing an occupation to identify essential knowledge and skills; use of the analysis to develop behavioral objectives and an instructional plan for a specific occupation, with emphasis on innovative and multi-media approaches to facilitate student achievement of the stated objectives to a specified level.

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

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

482-483-484-485. SPECIAL TOPICS. 1-3; 1-3; 1-3; 1-3 hrs.

Concentrated study of 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.

ENGINEERING

Professor Samuel T. Stinson, Chairman

COLLEGE OF APPLIED SCIENCE

Professor Stinson

Assistant Professors Adkins, Chen, Eaton, Mendenhall, Morgan, Olson, Smith

Civil Engineering (CE)

200. SURVEYING. 5 hrs. S (First Term)

Field work with transit, tape and stadia. Field astronomy, triangulation, office computations and plotting.

PR: Mathematics 180 or 131 and General Engineering 101.

300. ROUTE SURVEYING. 3 hrs. II.

Simple compound, spiral and vertical curves, and earth work. 1 lec.-2 lab.

PR: Civil Engineering 200 and General Engineering 203.

301. THEORY OF STRUCTURES I. 3 hrs. I.
Analysis of statically determinate structures. 3 lec.
PR: General Engineering 203.
PR or CR: Engineering Machines 300.
302. THEORY OF STRUCTURES II. 3 hrs. II.
Continuation of Civil Engineering 301. Analysis of statically indeterminate structures. 3 lec.
PR: Civil Engineering 301.
PR or CR: Mathematics 335.
303. SOIL MECHANICS. 3 hrs. II.
Mechanics and properties of soils. 2 lec.-3 lab.
PR: Engineering Mechanics 202.
400. TRANSPORTATION ENGINEERING. 3 hrs. I,
Location, design, construction, and maintenance of highways, streets, railroads, and airports: planning and economic considerations. 3 lec.
PR: Civil Engineering 303 and Engineering Mechanics 302.
401. REINFORCED CONCRETE DESIGN. 3 hrs. I.
Design of structures and structural members of reinforced and prestressed concrete. 2 lec.-3 lab.
PR: Civil Engineering 302 and Engineering Mechanics 302
402. STRUCTURAL DESIGN. 3 hrs. II.
Design of structures and structural elements of steel and timber. 2 lec.-3 lab.
PR: Civil Engineering 302 and Engineering Mechanics 302.
403. ENGINEERING HYDROLOGY. 2 hrs. I.
Rainfall stream flow and groundwater; control and utilization of water resources. 2 lec.
PR: Engineering Mechanics 301.
404. HYDRAULIC ENGINEERING. 3 hrs. II.
Analysis and design of hydraulic components of engineering projects and structures for water control. 3 lec.
PR: Civil Engineering 403.
405. SANITARY ENGINEERING I. 3 hrs. I.
Water treatment and supply. 3 lec.
PR: Engineering Mechanics 301.
PR or CR: Civil Engineering 403.

406. SANITARY ENGINEERING II. 3 hrs. II.
Sewerage and sewage treatment. 3 lec.
PR: Civil Engineering 403 and 405.
PR or CR: Civil Engineering 404.
420. PROTECTIVE CONSTRUCTION. 3 hrs. I.
Fallout shelter analysis and design, structural dynamics, and blast resistant design, 3 lec.
PR or CR: Civil Engineering 401.

Electrical Engineering (EE)

300. BASIC ELECTRICAL ENGINEERING. 3 hrs. I.
For students in curriculums other than electrical engineering. Fundamentals of electric and magnetic circuits. 3 lec.
PR: General Engineering 103 and Physics 203E and 204.
PR or CR: Mathematics 221 or 231.
301. CIRCUITS I. 3 hrs. I.
Analysis of electric circuits of intermediate complexity; determination of the complete response to first or second order systems. 3 lec.
PR: Engineering Mechanics 200 and Physics 203E and 204.
PR or CR: Mathematics 221 or 231.
302. CIRCUITS II. 3 hrs. II.
Continuation of Electrical Engineering 301, including solution of networks by location of poles and zeros in the complex frequency plane. 3 lec.
PR: Electrical Engineering 301, General Engineering 203.
PR or CR: Mathematics 335.
304. ELECTRICAL MEASUREMENTS LABORATORY I. 1 hr. II.
Electrical measurements and applications of circuit theory. 3 lab.
PR or CR: Electrical Engineering 302.
401. CIRCUITS III. 3 hrs. I.
Continuation of Electrical Engineering 304, including resonance, polyphase systems, and Fourier analysis. 3 lec.
PR: Electrical Engineering 302.
402. ELECTRONIC CIRCUITS. 3 hrs. II.
PR: Electrical Engineering 302.
PR or CR: Electrical Engineering 304.

403. ELECTRICAL MEASUREMENT LABORATORY II. 1 hr. I.
Continuation of Electrical Engineering 304, 3 lab.
PR: Electrical Engineering 304.
PR or CR: Electrical Engineering 401.
404. ELECTRONICS LABORATORY. 2 hrs. II.
Design, construction, and testing of electronic devices and circuits.
6 lab.
PR: Electrical Engineering 304.
PR or CR: Electrical Engineering 402.

Engineering Mechanics (EM)

200. STATICS. 3 hrs. I, II.
Particle and rigid body mechanics for static force systems. 4 lec.
PR: General Engineering 103.
PR or CR: Mathematics 200 and Physics 201E.
201. DYNAMICS. 3 hrs. I, II.
Laws of motion, work and energy, impulse and momentum, relative motion. 3 lec.
PR: Engineering Machines 200.
PR or CR: Mathematics 221 or 231.
202. MECHANICS OF MATERIALS I. 3 hrs. I, II.
Strength of materials; shear and moment diagrams; stress in shafts, beams, and columns; combined stress, deflection. 3 lec.
PR: Engineering Mechanics 200.
PR or CR: Mathematics 221 or 231.
300. MECHANICS OF MATERIALS II. 3 hrs. I, II.
Continuation of Engineering Mechanics 202. 3 lec.
PR: Engineering Mechanics 202 and Mathematics 221 or 233.
301. FLUID MECHANICS. 4 hrs. I, II.
Principles of hydrostatics and hydrodynamics. 3 lec.-3 lab.
PR: Engineering Mechanics 201, General Engineering 203, and Mathematics 221 or 231.
302. ENGINEERING MATERIALS SCIENCE. 3 hrs. I, II.
Properties of engineering materials and materials testing. 2 lec.-3 lab.
PR: Engineering Mechanics 202, Physics 320, and Mathematics 221 or 231.

**General Engineering
(GE)**

100. ENGINEERING ORIENTATION. Credit. I.
Required of all engineering freshmen. 1 lec.
101. ENGINEERING GRAPHICS I. 2 hrs. I, II.
Orthographic projection, lettering, technical sketching. 6 lab.
PR: Entrance mathematics requirements.
102. ENGINEERING GRAPHICS II. 2 hrs. I, II.
Descriptive geometry, graphs, graphical analysis. 6 lab.
PR: General Engineering 101.
103. ENGINEERING PROBLEMS. 1 hr. I, II.
Engineering computation. 3 lab.
PR: Mathematics 180.
CR: Mathematics 131.
200. MACHINE WORK. 1 hr. I, II.
Use of metal lathe, drill press, shaper, milling machine. 3 lab.
PR: General Engineering 101.
201. WELDING. 1 hr. I, II.
Cutting, oxyacetylene and arc welding. 3 lab.
PR: General Engineering 101.
203. COMPUTATIONAL METHODS. 3 hrs. I, II, S.
Desk calculators, analog and digital computers, programming, and
introduction to statistical analysis. 211 lec.-3 lab.
PR: Mathematics 181 or 131.
300. ENGINEERING ECONOMY. 3 hrs. II.
Investment mathematics, depreciation, economic selection of
machines, structures, and processes. 3 lec.
PR: Junior standing and consent of instructor.
301. ENGINEERING SEMINAR I. Credit. I.
Presentation of reports and technical papers. 1 lec.
PR: Engineering Mechanics 202.
302. ENGINEERING SEMINAR II. Credit. II.
Continuation of General Engineering 301. 1 lec.
PR: Engineering Mechanics 202.
400. ENGINEERING REPORT WRITING. 2 hrs. I.
Technical reports, business letters. 2 lec.
PR: Senior standing and consent of instructor.

401. ENGINEERING SOCIETY I. Credit. I.
Industrial safety. Presentation of reports and technical papers. 1 lec.
PR: Senior standing.
402. ENGINEERING SOCIETY II. Credit II.
History of the engineering profession. Presentation of reports and technical papers. 1 lec.
PR: Senior standing.
403. ENGINEERING PRACTICE. 2 hrs. II.
Engineering law, contracts, specifications, ethics, and current professional problems. 2 lec.
PR: Senior standing.
- 480-481. DIRECTED RESEARCH. 1-4; 1-4 hrs. I, II.
Original investigations of special topics.
PR: Senior standing

Mechanical Engineering (ME)

301. MACHINE DESIGN I. 3 hrs. I.
Design of machine elements. 3 lec.
PR: Engineering Mechanics 201.
PR or CR: Engineering Mechanics 300.
302. MACHINE DESIGN II. 3 hrs. II.
Continuation of Mechanical Engineering 301 including design of a complete machine. 1 lec.-6 lab.
PR: General Engineering 203, Mechanical Engineering 301.
PR or CR: Mathematics 335, Engineering Mechanics 301.
303. THERMODYNAMICS I. 3 hrs. I.
Basic laws of thermodynamics and their application. 3 lec.
PR: Engineering Mechanics 201, Mathematics 221 or 231. Physics 203E and 204.
304. THERMODYNAMICS II. 3 hrs. II.
Continuation of Mechanical Engineering 303, 3 lec.
PR: Mechanical Engineering 303.
PR or CR: Engineering Mechanics 301.
306. MECHANICAL ENGINEERING LABORATORY. 2 hrs. II.
Mechanical engineering measurements laboratory. 6 lab.
PR or CR: Mechanical Engineering 304.

401. HEAT AND MASS TRANSFER. 3 hrs. I.
Basic principles of heat transmission and mass transfers. 3 lec.
PR: Engineering Mechanics 301, Mechanical Engineering 304, and Mathematics 335.
410. MECHANICAL VIBRATIONS. 3 hrs. I.
Vibrations of rotating and reciprocating machines. 3 lec.
PR: Engineering Mechanics 201, General Engineering 203, and Mathematics 335.
420. CREATIVE DESIGN. 3 hrs. II.
Design of engineering systems and projects. 1 lec.-6 lab.
PR: Engineering Mechanics 300, 301, Mechanical Engineering 302, 304, and Mathematics 335.

ENGLISH (ENG)

Dr. Jack R. Brown, chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Humanities)

Professors Brown, Baxter, Mitchell, Sullivan, Tyson, Williams
Associate Professors Fei, Gerke, Glasgow, Phillips, Pittman, Putz, Stooke, Thorn
Assistant Professors Adkins, Bailey, Chapman, Click, Keenan, Kirby,
Marsteller, McKernan, Milam, Plybon, Ramsey, Sawaniewski, Stickman, Teel,
Valentine, Virgallito, Wells, Wooden
Instructors Beasley, Deutsch, Hobbs, Lenning, McClellan, Norris, Nunley,
Taylor, Waldron, Webster

Advanced placement in English is granted on the basis of College Entrance Examination Board (CEEB) Advanced Placement Test scores (see page 50) 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 201H substitute an additional English course at the 300-400 level to complete graduation requirements.
210. BIOGRAPHY. 3 hrs. I, II, S.
British, American, and world literature as seen through selected major biographies. The study of biography as a literary type.
English 102 or 201H.
218. TYPES OF POETRY. 3 hrs. I, II, S.
Selected works from early examples to the present.
PR: English 102 or 201H.
260. CREATIVE WRITING. 3 hrs. I, II, S.
An introduction to the writing of fiction and poetry. Open only on permission of the instructor.
PR: English 102 or 201H.
300. ENGLISH LITERATURE. 3 hrs. I, II, S.
Study of the works of major authors from the beginnings to the present, including Chaucer, Shakespeare, Milton, Pope, Wordsworth, Coleridge, Keats, and Eliot.
PR: English 102 or 201H. Not to be scheduled with English 301.
301. AMERICAN LITERATURE. 3 hrs. I, II, S.
Study of the works of major authors from the beginning to the present, including Hawthorne, Poe, Emerson, Thoreau, Whitman, Twain, O'Neill, Faulkner, and Frost.
PR: English 102 or 201H. Not to be scheduled concurrently with English 300. Prerequisites for all following 300-400 courses except 307, 329, 331, and 340: six hours in English beyond English 102 or 201H.
307. MODERN DRAMA. 3 hrs.
British and American plays since 1870, with their backgrounds in foreign literatures.
312. STUDY OF POETRY. 3 hrs.
Theory and prosody, and principal types, forms, and themes.

325. SHAKESPEARE. 3 hrs. I, II, S.
The major comedies, tragedies, and histories.
329. TWENTIETH CENTURY NOVEL. 3 hrs.
Criticism and analysis of principal British and American novels since 1900.
331. THE SHORT STORY. 3 hrs.
Criticism and analysis of representative short stories, British and American.
340. BLACK LITERATURE. 3 hrs.
Major types and writers, chiefly American.
377. CREATIVE COMPOSITION: POETRY. 3 hrs. I, II.
Practice in writing the literary forms.
378. CREATIVE COMPOSITION: PROSE. 3 hrs. I, II.
Practice in writing the literary forms.
405. STUDY OF THE ENGLISH LANGUAGE. 3 hrs. I, II, S.
Growth, structure, and present usage of the English language.
408. ADVANCED EXPOSITORY WRITING. 3 hrs. II.
Reports, theses, briefs, abstracts and other expository types. Adapted to the needs of the individual student.
409. MILTON. 3 hrs.
Biographical and critical study, including Milton's English poetry and prose.
411. CHAUCER. 3 hrs.
Background and influences, with biographical and critical study.
413. ENGLISH NOVEL TO 1800. 3 hrs.
Defoe, Richardson, Fielding, Smollett, and Sterne, with supporting study of their most important predecessors and contemporaries.
415. VICTORIAN POETRY. 3 hrs.
417. ENGLISH DRAMA TO 1642. 3 hrs.
Non-Shakespearean English drama from its beginning to the closing of the theatres.
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.

433. CONTEMPORARY ENGLISH POETRY. 3 hrs.
Principal poetry since the Victorian period.
434. CONTEMPORARY ENGLISH POETRY. 3 hrs.
Principal poetry since 1900.
436. EARLY AND MEDIEVAL LITERATURE. 3 hrs.
Non-dramatic prose and poetry, including Sidney, Spenser, Lyly, Dekker, Lodge, Nashe, Greene, and Bacon.
438. ENGLISH NON-DRAMATIC LITERATURE OF THE EARLY SEVENTEENTH CENTURY. 3 hrs.
Non-dramatic prose and poetry.
440. AMERICAN LITERATURE FROM 1800 TO 1855. 3 hrs.
441. AMERICAN LITERATURE FROM 1855 TO 1925. 3 hrs.
442. AMERICAN NOVEL TO 1900. 3 hrs.
Historical and critical study from the beginnings.
446. DRAMA OF THE RESTORATION AND 18TH CENTURY. 3 hrs.
Trends, movements, and dramatic types in the English theatre of this period.
447. ENGLISH ROMANTIC POETS. 3 hrs.
Emphasis on Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.
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.
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.
455. LITERARY CRITICISM. 3 hrs.
Historical study, with application of principles.
460. ENGLISH LITERATURE FROM 1660 TO 1745. 3 hrs.
Dryden, Swift, Pope, and their contemporaries.
461. ENGLISH LITERATURE FROM 1745 TO 1800. 3 hrs.
Major literature of the Age of Johnson.

475. INTRODUCTION TO LINGUISTICS. 3 hrs. I,II.
The structural and descriptive approach to study of the English language.
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.
- 480-481-482-483-484-485-486-487-488-489-490. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4 hrs.
- 495H-496H. READINGS FOR HONORS IN ENGLISH. 2-4; 2-4 hrs. I, II.
Open only to English majors of outstanding ability. Both courses must be taken in order to receive credit. Possible study areas include world literature, modern literature, works of individual authors, etc.
See Honors Courses, page 60

FINANCE (FIN)

Dr. N. Paul Bromley, Chairman

SCHOOL OF BUSINESS

Associate Professor Cole
Assistant Professor Bromley

323. PRINCIPLES OF BUSINESS FINANCE. 3 hrs. I, II, S.
Principles, instruments, and procedures involved in the procurement and maintenance of financial capital.
PR: Economics 242, Accounting 216.
324. ADVANCED FINANCIAL ANALYSIS AND PLANNING.
3 hrs. I, II, S.
A study of the kinds of financial analysis generally accepted within the broad meaning of analysis with emphasis on fundamental analysis.
PR: Finance 323.
327. LIFE AND HEALTH INSURANCE. 3 hrs. I, S.
Legal facets of life and health insurance; the insurance contract; programming; mathematics of life and health insurance; business uses of life insurance.
329. PROPERTY AND LIABILITY INSURANCE. 3 hrs. I,II.
Principles and legal facets of fire and marine; business and personal

liability; allied lines; and automobile insurance, with emphasis on the fire and liability insurance contracts.

335. SOCIAL INSURANCE. 3 hrs. II.

Coverage and limitations of social insurance; social security workman's compensation; unemployment insurance; medicare, medicaid; programming with private insurance.

430. PRINCIPLES OF REAL ESTATE. 3 hrs. I.

A broad study of the principles of real estate investment including a real estate valuation procedures, real estate development and urban economics. The course is designed to be general and somewhat legalistic and is not intended to train but rather to educate students interested in one or more of the broad areas of urban economics.

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.

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 434.

GEOGRAPHY (GEO)

Dr. Sam E. Clagg, Chairman

TEACHERS COLLEGE

Professors Clagg, Britton
Assistant Professors Adkins, Gillenwater
Instructor Booth

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. ECONOMIC GEOGRAPHY OF EUROPE. 3 hrs.
Relationship between man's activities and natural environment studied by countries, with attention given to inter-relation of countries.
305. ECONOMIC GEOGRAPHY OF NORTH AMERICA. 3 hrs. I, II, S.
Natural regional divisions emphasizing major economic activities and environmental factors with chief emphasis given to the United States.
309. ECONOMIC GEOGRAPHY OF LATIN AMERICA. 3 hrs.
Relationship between man's activities and natural relationship studied in each country.
315. ECONOMIC GEOGRAPHY OF AFRICA AND AUSTRALIA. 3 hrs.
Low latitude and lower middle latitude regions given relationship approach with national and sectional problems stressed with chief emphasis given to Africa.
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 inter-mountain and Pacific Coast centers.
403. ECONOMIC GEOGRAPHY OF ASIA. 3 hrs.
Special attention given activities and environment in representative continental countries and nearby islands.
405. WORLD POLITICAL GEOGRAPHY. 3 hrs.
A systematic and regional survey of world political problems and international relations stressing studies of the United States, Europe, and the Soviet Union.

408. GEOGRAPHY OF MEXICO. 3 hrs.
Regional study of relation of man's activities to natural environment.
409. GEOGRAPHY OF CANADA. 3 hrs.
Regional study of relation of man's activities to natural environment.
410. URBAN GEOGRAPHY. 3 hrs.
Study of city function, patterns, past and current problems confronting the city including planning, zoning, housing, and urban renewal.
412. GEOGRAPHY OF SOVIET LANDS. 3 hrs.
Russian agriculture, mining, grazing, industry, and transportation examined in environmental terms.
413. GEOGRAPHY OF THE BRITISH ISLES. 3 hrs.
Climate, minerals, and land forms explaining major economic activities of the islands.
420. FIELD GEOGRAPHY OF WEST VIRGINIA. 3 hrs.
Type areas in lumbering, mining, agriculture, and industry studied through field methods.
425. CLIMATOLOGY. 3 hrs.
A study of elements of weather and climate, methods of climatic classification, and distribution and characteristics of world climatic 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.
- 495H-496. READING FOR HONORS IN GEOGRAPHY. 4; 4 hrs. I,II.
See Honors Courses page

**GEOLOGY
(GLY)**

Dr. Wiley Rogers, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Science)

Professor Rogers

Assistant Professors Bonnett, Scrudato

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. Either Geology 210L, 211L, 212L optional. Field trips. 3 lec.
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. Either Geology 210L, 211L, 212L optional. Field trips.
- 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.
Recommended with Geology 200. Required of majors.
- 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.
Recommended with Geology 201. Required of majors.
- 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. 3 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.
PR: Geology 201.

314. MINERALOGY. 4 hrs. I. (Alternate years (odd numbers)
Identification and classification of igneous, sedimentary and metamorphic rocks; their origin and occurrence; their geologic and economic values. 2 lec-4 lab.
325. STRATIGRAPHY AND SEDIMENTATION. 3 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 2 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.
418. INVERTEBRATE PALEONTOLOGY. 3 hrs. I, 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.
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.
424. ENVIRONMENTAL GEOLOGY. 4 hrs. I, Alternate years
(odd numbers)
An exposition of selected areas of geology, their effects and solutions, as related to man's physical environment. Attention is given to the application of modern instrumentation as aids to the identification and solution of problems related to the environment. 3 lec.-2 lab.
PR: Geology 201 or 10 hrs. of science.
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 101-102 or permission.

451. PRINCIPLES OF GEOMORPHOLOGY. 3-4 hrs. I, Alternate years and S (even numbers)
Principles of identification and analysis of the world's surficial features in terms of stratigraphy, structure, processes, tectonics and time. 3 lec.-2 lab. Optional laboratory.
PR: Geology 200, Geology 210 or consent.
452. REGIONAL GEOMORPHOLOGY. 3 hrs. II, Alternate years (odd numbers)
Description and classification of North American surface morphology and its relationship to bedrock; climate, processes and history. 3 lec.
PR: Geology 451 or consent.
- 453-454. SEMINAR. 1 hr. I, II.
A graduation requirement for all seniors seeking the B.S. in Geology and recommended for seniors seeking the A.B. in Geology.
PR: Permission of chairman.

HEALTH, PHYSICAL AND SAFETY EDUCATION (PE, PEM, PEW, SED)

Dr. Dorothy Hicks, Chairman
Dr. Jimmy Railey, Chairman

TEACHERS COLLEGE

Professor Hicks
Associate Professors Chrietzberg, Mills, Railey
Assistant Professors Cook, Crosbie, Marshall, Prelaz,
Roberts, Saunders, Turko
Instructors Abbott, Fink, Hager, Lawson, Sager, Stull, Tacy, Way

100. BEGINNER'S COURSE IN SWIMMING. 1 hr. I, II.
Not open to students having credit in Physical Education 205.
103. FOOTBALL (MEN). 1 hr. I.
Theory and technique of football fundamentals and not credit for playing football.
104. BASIC RHYTHMS (MEN). 1 hr. I, II, S.
Includes the basic rhythms of marching, calisthenics and the fundamentals of dance routines.
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).

109. TRACK (MEN). 1 hr. II.
Fundamentals in track and not credit for participating in track.
110. BASKETBALL (MEN). 1 hr. II.
Theory and technique of basketball fundamentals and not credit for playing basketball.
111. BASEBALL (MEN). 1 hr. II.
Theory and technique of baseball fundamentals and not credit for playing baseball.
- 113-114. ORIENTATION TO PHYSICAL EDUCATION (MEN). 1; 1 hr.
I, II, S.
Designed to acquaint students with the following activities: volleyball, rhythm, swimming, basketball, stunts, postural work, softball.
- NOTE: Sections of Physical Education 113-114 are maintained for those who, because of physical disabilities, are restricted to certain types of physical activity. It is recommended that such students present the family physician's recommendation to the university physician. Upon the university physician's recommendation the student will be assigned to a restricted class designed to improve the individual's general physical condition and to correct personal hygiene handicaps as far as possible.
118. INTRODUCTION TO HEALTH AND PHYSICAL EDUCATION.
3 hrs. I, II.
Provides an introduction to the foundations with emphasis on the history, philosophy, principles, preparation, competencies, and evaluation procedures of health and physical education.
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 (WOMEN). 1 hr. I, II.
127. SLIMNASTICS (WOMEN). 1 hr. I, II.
132. VOLLEYBALL (WOMEN). 1 hr. I, II.
140. BEGINNING TENNIS (WOMEN). 1 hr. I, II, S.
141. BEGINNING GOLF (WOMEN). 1 hr. I, II, S.
142. BEGINNING BADMINTON (WOMEN). 1 hr. I, II, S.
145. BOWLING (WOMEN). 1 hr. I, II, S.
160. BEGINNING MODERN DANCE. 1 hr. I, II.
203. WRESTLING (MEN). 1 hr. II, S.
Fundamentals and techniques in development of skills requisite to wrestling as a dual or team sport.
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.
206. SOCCER AND SPEEDBALL (MEN). 1 hr. I, II, S.
Theory and technique of play.
207. ARCHERY AND TENNIS (MEN). 1 hr. I, II, S.
Theory and technique of play.
209. INDIVIDUAL AND DUAL SPORTS (MEN). 1 hr. I, II, S.
Theory, rules, and techniques of handball and bowling.
210. INDIVIDUAL AND DUAL SPORTS (MEN). 1 hr. I, II, S.
Theory, rules, and techniques of golf and badminton.
220. PERSONAL HYGIENE. 2 hrs. I, II.
Study of those phases of hygienic living which should be understood by all university students. Special emphasis placed on the personal aspects of hygiene.
221. HEALTH EDUCATION. 2 hrs. I, II, S.
The course should provide the prospective teacher with opportunity to recognize health problems and to organize methods and materials in order to develop basic health courses.

222. FIRST AID. 2 hrs. I, II, S.
First aid, safety and survival education in the home, in the school, and on the playground. Practical demonstrations, discussions, lectures. Standard and Advanced Red Cross First Aid Certificates will be issued to students successfully completing the course.
230. BASKETBALL AND TRACK, FIELD (WOMEN). 2 hrs. I, II.
The development and practice of fundamental and advanced skills in basketball with strategy techniques provided through class competition. Instruction and practice of fundamental skills in various track and field events (majors only).
231. TENNIS AND INTERMEDIATE SWIMMING (WOMEN). 2 hrs. I, II.
Instruction in basic fundamentals and simple strategy; emphasis on etiquette and rules. Theory and practice of fundamental strokes and diving (majors only).
PR: Physical Education 100 or equivalent.
232. GOLF AND VOLLEYBALL (WOMEN). 2 hrs. I, II.
Instruction and practice in golf fundamentals; golf course experience with particular emphasis on etiquette and rules. Practice of volleyball fundamentals with additional insight into offensive and defensive techniques used in competitive volleyball (majors only).
233. TUMBLING AND GYMNASTICS (WOMEN) 2 hrs. I, II.
To prepare students to teach gymnastics and tumbling and to organize gymnastics programs by providing them with adequate skills and knowledge (majors only).
PR: Physical Education 304.
235. SAFETY EDUCATION: 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.
240. INTERMEDIATE TENNIS (WOMEN). 1 hr. I, II, S.
PR: Physical Education 140 or equivalent.
241. INTERMEDIATE GOLF (WOMEN). 1 hr. I, II, S.
PR: Physical Education 141 or equivalent.
242. INTERMEDIATE BADMINTON (WOMEN). 1 hr. I, II.
PR: Physical Education 142 or equivalent.

300. RECREATION SWIMMING. 1 hr.
The development of skills in the use of small water craft, and in water related activities, such as scuba, snorkel, and skin diving, water skiing, and other aquatic activities of a recreational nature.
303. OUTDOOR RECREATION EDUCATION. 2 hrs. I, II, S.
To include both lecture and field experiences. Experiences in organization, administration and participation in outdoor activities, such as camping, hiking, exploring, and related activities.
- NOTE: Student must allow for time (usually on selected weekends) for laboratory experiences to be scheduled by the instructor.
304. MODERN DANCE I. 1 hr. I, II.
Analytical and practical study of elementary modern dance technique with some experience in the basic elements of composition.
305. MODERN DANCE II. 1 hr. I, II.
A continuation of Modern Dance I with an emphasis on analysis and discipline.
PR: Modern Dance I or approval of instructor.
306. TUMBLING (MEN). 1 hr. I, II, S.
Fundamentals and practice of stunts, tumbling, and pyramid building.
309. ADVANCED TUMBLING. 1 hr. I, II, S.
Separate sections for men and women.
311. PHYSICAL EDUCATION FOR SECONDARY SCHOOLS (MEN).
1 hr. I.
Organization and practice of activities appropriate for secondary schools. Juniors and seniors preparing to teach in secondary schools but not majoring in physical education.
314. MATERIALS AND METHODS FOR ELEMENTARY SCHOOLS.
2 hrs. I, II, S.
Students will experience the selection, adaptation, organization and presentation of games, story plays, stunts and rhythmic materials on the elementary level from the kindergarten through grade 9.
321. KINESIOLOGY. 3 hrs. I, II, S.
Applied anatomy of the human musculature in relation to physical activity. Zoology 315 is recommended as a prerequisite.
322. ADAPTED PHYSICAL EDUCATION. 3 hrs. I, II, S.
Theory of remedial exercise and individualizing of physical

activities to meet the needs of the physically handicapped and postural cases.

PR: Physical Education 321.

330. RHYTHMIC ACTIVITIES. 1 hr. I, II, S.
Instruction, practice and teaching of social, square and folk dance.
335. ORGANIZATION OF THE INTRAMURAL PROGRAM. 2 hrs. I, II.
Problems of policy and administration of intramural programs on the elementary, secondary, and college level.
340. METHODS IN TEAM AND INDIVIDUAL SPORTS (WOMEN).
1 hr. I, II.
Development of teaching techniques of team and individual sports.
341. METHODS IN RHYTHMS. 1 hr. I, II.
Materials and methods for public schools, colleges, and recreational centers.
PR: Physical Education 330.
385. SAFETY EDUCATION: 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.
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, S.
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, S.
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.

406. BEGINNING GYMNASTICS. 1 hr. I, II.
Emphasis on basic movement utilized in international gymnastic events and upon basic trampoline skills.
PR: Physical Education 306.
409. ADVANCED GYMNASTICS. 1 hr. II.
Development of gymnastic routines and composition for various events. Emphasis on individual mastery of advanced skills.
PR: Physical Education 406 or approval of instructor.
410. PRINCIPLES, ORGANIZATION, AND ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION. 3 hrs. I, II, S.
Principles of health and physical education, procedures in the organization and administration of the physical education program, including purchase, care, and use of equipment.
PR: All major activity courses.
- 420-421. ADVANCED PRACTICE AND OFFICIATING. 1; 1 hr. I, II.
Separate sections for men and women.
422. PREVENTION, CARE AND TREATMENT OF ATHLETIC INJURIES. 2 hrs. I, II.
Massage, conditioning, first aid, and treatment of injuries both theory and practice.
426. METHODS OF COACHING BASKETBALL. 2 hrs. I, II, S.
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.
427. METHODS OF COACHING FOOTBALL (MEN). 2 hrs. II, S.
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. II, S.
Methods and coaching techniques in baseball theory and fundamentals including scouting, rules interpretation, officiating, selection of players, and construction and maintenance of baseball facilities.
430. CAMP COUNSELING. 3 hrs. II.
Discussion of types of camps, objectives of camping, principles and practice in program making. Evaluation activities, description of programs, policies, health and safety problems.

431. CAMP PROGRAMS FOR THE HANDICAPPED CHILD. 3 hrs. II, S.
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.
Analysis of physiological changes which occur in the body during exercise.
450. PLAYGROUND AND COMMUNITY RECREATION. 2 hrs. I, II, S.
Problems involved in organization and administration of playground and community recreational programs.
460. EDUCATION FOR PERSONAL AND FAMILY LIFE. 2 or 3 hrs.
Development of programs concerned with sex-character education in schools and other community agencies.
465. TESTS AND MEASUREMENTS IN HEALTH AND PHYSICAL EDUCATION. 3 hrs. II, S.
The course includes information which will aid the prospective teacher in the location, evaluation, administration, interpretation, use of test results and test construction in physical education. 2 lec-2 lab.
470. CURRICULUM CONSTRUCTION IN HEALTH AND PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS. 3 hrs.
A study of principles, objectives and procedures in curriculum construction of a health and physical education program. Typical programs studied and evaluated. Practice in curricula construction for elementary grade levels in health and physical education.
475. PRINCIPLES AND TECHNIQUES OF RECREATIONAL LEADERSHIP. 2 hrs.
Emphasis will be placed upon methods and materials, applicable to planning and directing various types of activities in recreational situations.
480. SAFETY EDUCATION: 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.
- 482-483-484-485. SPECIAL TOPICS. 1-3; 1-3; 1-3; 1-3 hrs.
Physical education majors only, with permission of department chairman. May not be used as a substitute for any other required course.

485. SAFETY EDUCATION: 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.
490. SAFETY EDUCATION: 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 385.
495. SAFETY EDUCATION: INDUSTRIAL SAFETY MANAGEMENT. 3 hrs.
Emphasis is placed on principles, facts, and methodology rather than incidental detail concerning safety management.
PR: Safety Education 485.

HISTORY (HST)

Dr. Charles H. Moffat, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professor Moffat
Associate Professors Aldred, Gould, Woodward
Assistant Professors Bias, Maddox

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.
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 through 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.

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.
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, page 60 .

HOME ECONOMICS (HEC)

Dr. Grace Bennett, Chairman

TEACHERS COLLEGE

Professor Bennett
Associate Professors Blankenship, Vickers
Assistant Professor Creighton
Instructors Childers, McGhee

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.
Experiments in construction techniques, fabrics, figure and design compatibility.
PR: Home Economics 112 or an acceptable score on clothing construction pretest.
303. CHILD DEVELOPMENT. 3 hrs. I, II.
Care and guidance of young children two to six years old, in relation to their physical, emotional, mental, and social development. Observation and participation in nursery school required.
304. DIET THERAPY. 3 hrs.
Present day concepts of the relation of nutrition and diet to the prevention and treatment of disease.
PR: Home Economics 210 and Chemistry 204.
306. HOME ECONOMICS EDUCATION: METHODS IN HOME ECONOMICS EDUCATION. 3 hrs. I, II.
Bases for planning junior and senior high school home economics programs; use and development of resources; technical skills of teaching.
PR: Educational Foundations 319.
314. CLOTHING SELECTION. 3 hrs.
Psychological, sociological, economic, and esthetic aspects of clothing selection.
351. HOUSING. 3 hrs.
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.
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.
Identification of management concepts with emphasis on principles and interrelationships within framework of the family.
402. FOODS OF THE WORLD. 3 hrs.
Characteristics and cultural aspects of the foods of Europe, Mid East and Far East.
PR: Home Economics 203 or permission of instructor.
403. ADVANCED NUTRITION. 3 hrs.
Metabolism of food nutrients as related to nutritional requirements of man. Reports of current research and other topics to add depth and perspective in nutrition.
PR or CR: Chemistry 300.
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.
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.
Experimental study of chemical and physical factors affecting food preparation.
PR: Home Economics 110 and Chemistry 204.

415. FAMILY RELATIONSHIPS. 3 hrs.
Relationships in the family during its life cycle, with some consideration of family life in other cultures.
416. PRENATAL AND INFANT CARE. 3 hrs.
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.
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.
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.
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.

**INTERDISCIPLINARY STUDIES
(IS)**

201. INTRODUCTION TO COMPUTING. 3 hrs.
Organization and characteristics of computers. Basic programming languages and applications.

**JOURNALISM
(JRN)**

Dr. C. A. Oliphant, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professor Oliphant
Assistant Professors Arnold, McCoy
Instructors Turner, Denbow, Hixson, Jordan
Departmental Assistant Hensley

101. SURVEY OF JOURNALISM. 2 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 are part of the course.
201. NEWS REPORTING I. 3 hrs. I, II, S.
Techniques of good news writing designed to develop the basic skills necessary for a beginning reporter through in-class laboratory experience.
202. NEWS REPORTING II. 3 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.
300. HISTORY OF AMERICAN JOURNALISM. 3 hrs. I, II.
The development of the press in the United States and the contributions of American journalists. The periods and changes in ethics and practices in American journalism.
301. COPY EDITING I. 3 hrs. I, II, S.
Theory and experience in writing headlines, editing copy, and make up. Laboratory work with the Associated Press teletype copy and

student newspaper.

PR: Journalism 201, 202.

302. COPY EDITING II. 3 hrs. I, II, S.
Advanced course in newspaper copy editing and headline writing. Skills learned in Journalism 301 are put into practice with emphasis on learning more intricate mechanics of headline writing and newspaper makeup.
PR: Copy Editing 301.
304. EDITORIAL WRITING I. 2 hrs. I, S.
Planning the editorial page; considerations of structure, style and policy in writing editorials. Practice in writing editorials.
305. EDITORIAL WRITING II. 2 hrs. II, S.
Further considerations of the elements of editorials with theory and practice in broadcasting, magazines and newspapers.
- 308-309. FEATURE WRITING. 2; 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.
330. FUNDAMENTALS OF PUBLIC RELATIONS. 3 hrs. I, II.
Current ways of disseminating public information as practiced by business, educational, industrial, governmental and social organizations.
335. COMPANY PUBLICATIONS. 3 hrs. I, II.
A study of company publications, trade journals and other specialized periodicals. The duties and work of the industrial editor in preparing internal, external and multi-purpose publications.
350. RADIO NEWS. 3 hrs. I, II.
Practice in compiling, writing and editing news for broadcasting. A laboratory class which makes use of the facilities of WMUL Radio. Students will receive on-air experience as available. Students must discuss course with instructor before enrolling.
351. TELEVISION NEWS. 3 hrs. I, II.
Examination of skills required by the TV journalist: writing, filming, editing and broadcasting. Laboratory phase includes film and broadcast news production. Students must discuss course with instructor before enrolling.
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 assured of enrollment priority. Students must discuss course with instructor before enrolling.

381. PUBLICATIONS ADVERTISING. 3 hrs. I, II, S.
Organization of newspaper and magazine advertising departments and their relationships to advertising agencies and media representatives. An examination of the practices and problems of the three areas.
PR: Marketing 341.
382. ADVERTISING COPY AND LAYOUT. 3 hrs. I, II.
Practice in obtaining material, writing copy and planning layout of advertisements in publications.
PR: Art 216, Marketing 341, Journalism 381.
402. COMMUNICATIONS LAW. 3 hrs. II, S.
Law governing communications. Considerations of libel, copyright, regulatory agencies, state and federal laws applicable to communications, and current related issues.
405. ETHICS. 2 hrs. I, II, S.
Contemporary issues involving social responsibilities of the mass media. Appraisal of performance of the communications media in society.
406. JOURNALISM INTERNSHIP. 3 hrs. I, II, S.
Supervised reportorial work on Huntington and other daily newspapers, and other areas of mass communications. Conferences for guidance and evaluation at least twice a week.
412. PROBLEMS IN MASS COMMUNICATIONS. 1-3 hrs. I, II.
A course designed to encourage independent investigation of a particular area of mass communications theory. Students must have instructor's approval of their proposed study prior to enrolling in the course.
PR: Senior standing or permission.
427. JOURNALISTIC ENGLISH. 3 hrs. I, II, S.
Study of the language of mass communications in contemporary society. Designed primarily for Teachers College English majors, but open to students of all colleges.
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 Teachers College English majors but open to students of all colleges.

430. MAGAZINE ARTICLE WRITING. 3 hrs. I.
Fundamentals of researching and writing the popular, factual magazine article; techniques of selling articles to magazines.
431. MAGAZINE ARTICLE WRITING II. 3 hrs. II.
Advanced magazine writing. Students will be expected to sell class-produced articles as part of the course requirements.
PR: Journalism 430.
- 495H-496H. READING FOR HONORS IN JOURNALISM. 4;4 hrs. I, II.
For journalism majors of outstanding ability. Both courses must be taken to receive credit.
See Honors Courses, page 60 .

LIBRARY SCIENCE (LSC)

Professor Anna V. Theis, Chairman

TEACHERS COLLEGE

Associate Professor Theis

301. THE TEACHER AND LIBRARY SERVICE. 3 hrs. I, II.
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. 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.

PR: Skill in typing.

401. HISTORY OF BOOKS AND LIBRARIES. 3 hrs. S.
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. I, S.
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 editions of individual titles; techniques of story-telling.
405. BOOK SELECTION FOR ADOLESCENTS. 3 hrs. II, S.
Survey of books and other materials adapted to the needs of adolescents and young adults correlated with the school program in all subject areas; critical evaluation of standard, classic and current books with aids and criteria for selection; techniques of reading guidance, including determination of reading levels and study of reading skills; book talks, book reviews and book notes.
410. FOUNDATIONS OF MASS COMMUNICATIONS. 3 hrs. II, S.
Survey of social and psychological causes and effects of reading and mass communications (newspapers, magazines, radio, motion pictures, television) with reference to their importance to the school librarian.
450. LIBRARY PRACTICE (Field Work). 3 hrs. I, II, S.
Practical experience in the application of techniques of library service, adapted as far as possible to the student's needs.
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.

482-483-484-485. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs.

**MANAGEMENT
(MGT)**

Dr. Thomas S. Bishop, Chairman

SCHOOL OF BUSINESS

Associate Professors Alexander, Bishop, Cyrus
Assistant Professor Wiswell
Instructors McConnell, Payne

307. **PRINCIPLES OF BUSINESS LAW.** 3 hrs. I, II.
Survey of common law and recent legislation relative to contracts, agency, employment, sales, bailments, common carriers, personal and real property, insurance, negotiable and other credit instruments, partnerships, corporations, and bankruptcy.
308. **ADVANCED BUSINESS LAW.** 3 hrs. I, II.
A continuation of 307. Emphasizes in-depth case study.
PR: Management 307.
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. **PRINCIPLES OF MANAGEMENT.** 3 hrs. I, II, S.
Basic principles of management, planning, organizing, motivating, deciding, coordinating, directing, and controlling.
420. **PRODUCTION MANAGEMENT.** 3 hrs. I, II, S.
Managerial organization for production; plant design and layout; problems of procurement; control of plant; investment, working capital, and labor costs. Production operations, including scheduling and routing.
PR: Management 320.
422. **HUMAN BEHAVIOR IN ORGANIZATIONS.** 3 hrs. I, II, S.
Problems, methods and finding of the behavioral sciences, especially as these relate to an industrial society and to behavior within business organizations.
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

barbaining 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. Potentials and limitations of mathematical models and proper areas for their application. Topics include probability, statistical decision theory, linear programming, waiting lines, and inventory replacement models.

PR: Management 318.

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 BUSINESS.** 4 hrs.

Open only to students of outstanding ability. Both must be taken to receive credit. See Honors Students.

MARKETING (MKT)

Dr. William F. Ashford, Chairman

SCHOOL OF BUSINESS

Professor Ashford
Associate Professor C. Miller
Assistant Professor Piltz

340. **PRINCIPLES OF MARKETING.** 3 hrs. I, II, S.

Institutions, channels of distribution, functions, federal regulation, and economics of marketing.

341. ADVERTISING MANAGEMENT. 3 hrs. I, II.
Copy layout, production, media and copy research strategy.
PR: Marketing 340.
350. PHYSICAL DISTRIBUTION. 3 hrs. I, II, S.
History, organization, operation, regulation, and management of railways, waterways, highway, pipeline, and air transportation. Theory of rate making, shipping practices, legal and marketing implications, train movements, terminals, port and dock and traffic expediting services.
425. RETAIL MANAGEMENT. 3 hrs. I, II, S.
Principles and practices of successful retail merchandising covering merchandise and stock control, buying, marking, pricing, advertising, credit, and retail personnel management.
430. MARKETING MANAGEMENT. 3 hrs. I, II.
A research base for marketing decisions and organizing the market functions in relation to company objectives, program planning, and products, price, and promotion strategy.
PR: Marketing 340.
436. MARKETING INSTITUTIONS AND CHANNELS. 3 hrs. I, II.
Role and role theory in distribution channels systems. Conflicts in brands, marketing channels, trade associations, and cybernetic analysis.
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.

**MATHEMATICS
(MTH)**

Dr. Hunter Hardman, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Sciences)

Professors Bauserman, Hardman

Associate Professors Hogan, Jordan, Thompson

Assistant Professors Cantees, Hatfield, Keller, Peele, Sisarcick, Whitley

Instructors Norton, Photiades

105. **MATHEMATICS FOR ELEMENTARY SCHOOLS.** 3 hrs.
Language and symbolism of modern mathematics for elementary school programs. Emphasis on the structure and development of the real number system.
110. **INTRODUCTION TO COLLEGE MATHEMATICS.** 3 hrs. I, II.
Introduction to logic, postulational thinking, and mathematical models; evolution of the number system; the logic of algebra; numerical computation.
120. **ALGEBRA.** 3 hrs. I, II.
Modern algebraic concepts including sets, relations, functions. Study of number systems through the axiomatic approach. Algebraic processes using exponents, radicals, logarithms, solution of equations.
122. **PLANE TRIGONOMETRY.** 3 hrs. I, II.
PR: One unit of plane geometry.
PR or CR: Mathematics 120.
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 placement test.
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: Placement test and at least 1½ units of algebra and ½ unit of trigonometry.
190. **INTRODUCTORY CALCULUS.** 5 hrs.
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 equivalent.

230. CALCULUS WITH ANALYTIC GEOMETRY II. 4 hrs. I, II.
A study of the conics and transcendental functions using rectangular and polar coordinates, techniques of integration, improper integrals and indeterminate forms.
PR: Mathematics 131.
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.
335. ORDINARY DIFFERENTIAL EQUATIONS. 4 hrs. I, II.
An exposition of methods used in solving ordinary differential equations, with applications to geometry, physics, and mechanics.
PR: Mathematics 231.
337. ELEMENTARY TOPOLOGY. 3 hrs.
Introduction to the basic concepts of topological spaces including such properties as continuity, connectedness, separability, compactness, and metrization.
PR: Mathematics 231 or consent of the instructor and department chairman.
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.
PR: Approval of instructor and department chairman.
May not be used toward a major in mathematics.
401. STRUCTURE OF MODERN GEOMETRY. 3 hrs.
Informal development of plane and solid geometry making use of sets of modern mathematical language to clarify definitions and explanations.
PR: Consent of instructor. May not be used toward a major in mathematics.
427. ADVANCED CALCULUS. 4 hrs. I.
The number system, limits, sequences, partial differentiation with applications, maxima and minima of functions of several variables.
PR: Mathematics 231, 337 or approval of instructor and department chairman.

428. ADVANCED CALCULUS. 4 hrs. II.
Theory of definite integrals, multiple integrals, line and surface integrals, improper integrals, infinite series.
PR: Mathematics 427.
430. VECTOR AND TENSOR ANALYSIS. 3 hrs.
The algebra of vectors, the calculus of vectors with applications, introduction to tensor analysis.
PR: Mathematics 231.
436. PARTIAL DIFFERENTIAL EQUATIONS. 3 hrs.
An exposition of methods used in solving partial differential equations with applications to geometry and topics in mathematical physics.
PR: Mathematics 335.
443. NUMERICAL ANALYSIS. 3 hrs.
The theory and technique of numerical computation involving interpolation methods, solution of systems of equations, and methods of solving ordinary differential equations.
PR: Mathematics 335, or consent of instructor and department chairman.
- 445-446. INTRODUCTION TO THEORY OF STATISTICS. 3; 3 hrs. I, II.
Probability spaces, random variables, and algebra of expectations; sampling methods; estimation of parameters; tests of hypotheses; analysis of variance.
PR: Mathematics 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 and department chairman.
449. PROJECTIVE GEOMETRY. 3 hrs.
Projective geometry using both synthetic and algebraic methods.
PR: Mathematics 231 or approval of the instructor and department chairman.
450. FUNDAMENTAL CONCEPTS OF MODERN ALGEBRA. 3 hrs.
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 department chairman.

451. LINEAR ALGEBRA. 3 hrs.
Vector spaces over the real and complex field, the algebra of matrices, linear transformations in a vector space.
PR: Mathematics 231 or approval of the instructor and department chairman.
- 460-461. FUNCTIONS OF A COMPLEX VARIABLE. 3; 3 hrs.
Complex numbers, analytic functions, properties of elementary functions, integrals, series, residues and poles, conformal mapping.
PR: Mathematics 231.
- 495H-496H. READING FOR HONORS IN MATHEMATICS. 4; 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, page 60 .

MEDICAL TECHNOLOGY (MDT)

Dr. Howard L. Mills, Director

COLLEGE OF APPLIED SCIENCE

Professor Mills
Clinical Professors Werthammer, Sadler
Associate Clinical Professor Sheils
Clinical Instructor Leslie

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: p^H , p^{CO_2} , p^{O_2} .
417. HISTOTECHNOLOGY (2 weeks). 1 hr. II.
Fixation, embedding, sectioning, and staining of surgical and autopsy tissue specimens. Microtome techniques and mechanical tissue processing methods. Frozen section technique.
418. SERIOLOGY (4 weeks). 3 hrs. II.
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. II.
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. II.
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)**

Lt. Col. W. E. Shambora, Jr., Chairman

COLLEGE OF APPLIED SCIENCEProfessor Shambora
Assistant Professors Skeins, Powell, Dunkelberger, Poole
Instructors Connolly, Hayes, Rowe

- 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. No credit is given for Military Science 101 without completion of Military Science 102.
- 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.
PR: Military Science 101-102. No credit given for Military Science 201 without completion of Military Science 202.
- 301-302. **ADVANCED COURSE MILITARY SCIENCE III. 3; 3 hrs.**
Advanced instruction and practice in leadership concepts and exercise of command in precommissioned leadership situations; continuation of the study of Army organization to include the roles and missions of its various arms and services; introduction and practice in military teaching methods; and study of small unit tactical operations under nuclear and nonnuclear warfare conditions; counter-insurgency operations. Four hours per week.
PR: Military Science 101-102, 201-202 or equivalent military service.
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.

PR: Military Science 301-202, 351.

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 4-2 and having one full year of undergraduate work remaining before receiving degree and begin commissioned. Two hours per week.

PR: Military Science 401-402.

MODERN LANGUAGES

Dr. John L. Martin, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Humanities)

Professors J. Martin, Lieberman, Perl
Associate Professors Almalel, Murphy, Parrish, Simaika
Assistant Professors Corum, Knouse, Stump
Instructors Carr, Craigo, Henry, Vest

French (FRN)

121-122. ELEMENTARY FRENCH. 3; 3 hrs. I, II.

Pronunciation, conversation, reading and composition with emphasis on the oral approach. No credit for French 121 without 122.

Recommended PR for 122: French 121 or one credit of high school French.

223-224. INTERMEDIATE FRENCH. 3; 3 hrs. I, II.

Reading, composition, grammar review, irregular verbs, dictees, and conversational practice with emphasis on the oral approach.

Recommended PR for 223: French 122 or two units of high school French.

Recommended PR for 224: French 223 or three or four units of high school French.

314. STUDIES IN LANGUAGE LABORATORY TECHNIQUES.
3 hrs. I, II.
Training in the use of laboratory equipment. Clinical practice in the use of laboratory facilities. 1 hour lab to be arranged. Open to majors only.
PR: French 224.
- 315-316. ADVANCED CONVERSATION, COMPOSITION AND GRAMMAR.
3;3 hrs. I, II.
Study of idioms and difficult constructions. Translation and free composition together with intensive reading.
PR for French 315: French 224.
PR for French 316: French 315 or consent of instructor.
327. 17TH CENTURY LITERATURE. 3 hrs.
A presentation of the development, spirit, and characteristics of French classicism.
PR: French 224.
328. 17TH CENTURY LITERATURE. 3 hrs.
Racine's plays, Descartes, Pascal, and other prose classicists together with La Fontaine, Boileau, and others of the Golden Age.
PR: French 224.
- 341-342. ADVANCED ORAL FRENCH. 3; 3 hrs. I, II.
Pronunciation, phonetics, oral practice with use of tape recorder and records, vocabulary building, and conversational practice.
PR for 341: French 224 or four units of high school French.
PR for 342: French 341 or consent of instructor.
- 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 and 356: French 224.
- 417-418. SURVEY OF FRENCH LITERATURE. 3; 3 hrs.
A study of important literary movements, representative authors and their works.
PR: 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. 4; 4 hrs. I, II.

Open only to French majors of outstanding ability. Both courses must be taken in order to receive credit.

See Honors Courses, page 60.

German
(GER)

101-102. ELEMENTARY GERMAN. 3; 3 hrs. I, II.

Grammar, pronunciation, beginning conversation, reading and comprehension. No credit for German 101 without 102.

Recommended PR for German 102: German 101 or one unit of high school German.

203-204. INTERMEDIATE GERMAN. 3; 3 hrs. I, II.

Grammar, vocabulary, reading and comprehension of written and oral German.

Recommended PR for German 203: German 102 or two units of high school German.

Recommended PR for German 204: German 203 or three or four units of high school German.

301. DRAMA OF THE 19TH AND 20TH CENTURIES. 3 hrs. I.

A survey of literary trends and main authors. Reading and comprehension of selected dramas of the period.

PR for German 301: German 204.

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.

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. One 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 equivalent.
PR for German 418: German 204 or equivalent.
- 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. 4; 4 hrs. I, II.
Open only to German majors with outstanding ability. Both courses must be taken in order to receive credit.
See Honors Courses, page 60 .

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.
No credit is given for 101 without 102.
- 203-204. INTERMEDIATE SPANISH. 3-3 hrs. I, II, S.
Composition, conversation, and readings. Emphasis on idiomatic

expressions and their use for cultural or practical purposes. Pronunciation and intonation.

Recommended PR for 203: Spanish 102 or two units of high school Spanish.

Recommended PR for 204: Spanish 203 or three or four units of high school Spanish.

- 310-311. ADVANCED CONVERSATION. 3-3 hrs. I, II.
Conversation and discourses in Spanish on selected topics. Courses conducted in Spanish.
PR for either 310 or 311: Spanish 204.
- 312-313. SPANISH-AMERICAN LITERATURE. 3-3 hrs. I, II.
Readings from representative authors with reports and class discussion; from the colonial period to the contemporaries.
PR for either 312 or 313: Spanish 204.
314. STUDIES IN LANGUAGE LABORATORY TECHNIQUES.
3 hrs. I, II.
Training in the use of laboratory equipment. Clinical practice in the use of laboratory facilities. 1 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.
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: One course in literature and 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 60 for information about Honors courses.

MUSIC (MUS)

Dr. C. L. Kingsbury, Chairman

TEACHERS COLLEGE

Professors Kingsbury, Shepherd, Wolff
 Associate Professors Balshaw, Barbour, Cerveris, Clark, Creighton,
 Davidson, Drescher, Imperi, Jones, Lanegger, O'Connell, Schleicher,
 Taggart, Whear
 Assistant Professors DeVos, Folsom, Green, Hager, Mead
 Instructor Stacy

Requirements for Music Majors

Admission to Music Program

All students applying for admission to any program in music must arrange for an audition and be approved by the Department of Music. Appointments should be made for an audition. Students unable to audition on campus may arrange to submit a tape. The audition will cover performance in a major applied music area.

Applied Music

MAJOR:

All students following the single music field curriculum are required to select a major instrument or voice and complete fourteen (14) semester hours in this field -- eight (8) semester hours of lower division courses and six (6) semester hours of upper division courses. Students must pass a proficiency examination at the end of the fourth semester before being admitted to upper division applied music courses. If students fail this examination, they may be

required to repeat fourth semester courses until successful in the examination. Major applied music courses, with two semester hours credit, require two lessons a week with two hours daily preparation.

SECONDARY PIANO:

All students majoring in music take four semesters of piano courses, Music 195 a, b, c, d, one semester hour credit each semester, and pass a proficiency examination at the end of the fourth semester. If this examination is not satisfactory, the student is required to repeat piano until the secondary piano requirements are met. The examination includes sight reading from a community song book, simple accompaniment from a given melodic line, simple transposition, and Clementi sonatinas, or the equivalent. Secondary applied music courses with one hour credit require two lessons per week and one hour daily preparation. Secondary piano lessons may be individual or in classes as assigned by the Department of Music.

ELECTIVE:

Students may elect applied music courses, upon approval of the Department of Music, for one hour credit each semester. Two lessons per week with one hour of daily preparation.

SENIOR RECITAL:

All music majors must appear on a senior recital to be approved by the music faculty before becoming eligible for graduation.

Major Ensembles

All music majors are required to enroll in a major ensemble for seven semesters, representing their applied music as assigned by the Department of Music. Regular attendance at all rehearsals and performances is required. The major ensembles are choir, orchestra and band.

COURSES

107-307. CHORAL UNION. ½; ½ hr. I, II.

The nucleus of the Choral Union is the Symphonic Choir, one or two oratorios or similar works are presented each year. One rehearsal per week.

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.

122-123. INTRODUCTION TO MUSIC LITERATURE. 2;2 hrs. I, II.

A survey of music with special emphasis upon the relationship of music and other major arts of each important period of western civilization. Development of listening techniques and music appreciation.

175. APPRECIATION OF MUSIC. 2 hrs. I, II, S.

Development of an appreciation and understanding of music as a fine art and to help the student develop intelligent listening habits.

181a,b,c,d-381a,b,c,d.	Applied Music.	Saxophone	1-2;1-2 hrs. I,II.
182a,b,c,d-382a,b,c,d.	Applied Music.	Flute	1-2;1-2 hrs. I,II.
183a,b,c,d-383a,b,c,d.	Applied Music.	Oboe	1-2;1-2 hrs. I,II.
184a,b,c,d-384a,b,c,d.	Applied Music.	Clarinet	1-2;1-2 hrs. I,II.
185a,b,c,d-385a,b,c,d.	Applied Music.	Bassoon	1-2;1-2 hrs. I,II.
186a,b,c,d-386a,b,c,d.	Applied Music.	French Horn	1-2;1-2 hrs. I,II.
187a,b,c,d-387a,b,c,d.	Applied Music.	Trumpet	1-2;1-2 hrs. I,II.
188a,b,c,d-388a,b,c,d.	Applied Music.	Trombone	1-2;1-2 hrs. I,II.
189a,b,c,d-389a,b,c,d.	Applied Music.	Baritone	1-2;1-2 hrs. I,II.
190a,b,c,d-390a,b,c,d.	Applied Music.	Tuba	1-2;1-2 hrs. I,II.
191a,b,c,d-391a,b,c,d.	Applied Music.	Violin	1-2;1-2 hrs. I,II.
192a,b,c,d-392a,b,c,d.	Applied Music.	Viola	1-2;1-2 hrs. I,II.
193a,b,c,d-393a,b,c,d.	Applied Music.	Cello	1-2;1-2 hrs. I,II.
194a,b,c,d-394a,b,c,d.	Applied Music.	String Bass	1-2;1-2 hrs. I,II.
195a,b,c,d-395a,b,c,d.	Applied Music.	Piano	1-2;1-2 hrs. I,II.
196a,b,c,d-396a,b,c,d.	Applied Music.	Voice	1-2;1-2 hrs. I,II.
197a,b,c,d-397a,b,c,d.	Applied Music.	Organ	1-2;1-2 hrs. I,II.
198a,b,c,d-398a,b,c,d.	Applied Music.	Percussion	1-2;1-2 hrs. I,II.

204-404. A CAPELLA CHOIR. 1; 1 hr. I, II.

The A Capella Choir is a mixed choir open to all university students. It is essentially a training group for the Symphonic Choir. It does, however, give frequent public performances.

205-405. WOMEN'S GLEE CLUB. 1; 1 hr. I, II.

The Women's Glee Club is open to all women students interested in singing. Literature performed ranges from classical to semi-classical.

206-406. MEN'S GLEE CLUB. 1; 1 hr. I, II.

The Men's Glee Club is open to all male students interested in singing. The repertoire includes a wide variety of literature ranging from the classics to show tunes, folk songs and spirituals.

207-407. SYMPHONIC CHOIR. 1; 1 hr. I, II.

The Symphonic Choir is a mixed group chosen by audition in open competition from the entire student body. This organization comprises the most mature singers on the campus, vocally and musically, and is

dedicated to furnishing high level experience in the performance of the great choral literature.

208-408. ORCHESTRA. 1; 1 hr. I, II.

The Marshall Community Symphony is open to all university students, faculty, and interested musicians in the community with permission of the instructor. Concerts are presented each semester. Rehearsals are held each Tuesday evening.

215-216. ADVANCED THEORY. 4; 4 hrs. I, II.

Sight-singing a wide variety of material, part writing including all types of modulation and altered chords, advanced work in melodic and harmonic dictation. Counterpoint in 18th century style.

261. STRING TECHNIQUES. 1; 1 hr. I, II.

262. WOODWIND TECHNIQUES. 1; 1 hr. I, II.

263. BRASS TECHNIQUES. 1; 1 hr. I, II.

264. PERCUSSION TECHNIQUES. 1; 1 hr. I, II.

265-465. BAND. 1; 1 hr. I, II.

The band functions as a marching unit in the fall for football games at home and away. After the football season, the band program includes the Concert Band, Wind Ensemble, Pep Band, Stage Band and Brass Ensemble.

301. ANALYSIS. 2 hrs. I, II.

The study of small and large forms; song form, minuet, variation, fugue, rondo, sonata, etc. Recognition of various forms by ear and by sight.

PR: Music 216.

303. MUSIC SKILLS FOR CLASSROOM TEACHERS. 2 hrs. I, II, S.

Development of fundamental music skills used in reading and teaching music at the elementary school level.

PR: Music 175 and junior standing.

312-313. VOCAL TECHNIQUES. 1; 1 hr. I, II.

Foundation principles of voice usage, interpretation, and problems of vocal pedagogy. For instrumental music major students.

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.
Techniques of 16th and 17th century counterpoint. Composition in species and free counterpoint, motet, inventions, canon and fugue.
320. INSTRUMENTAL ARRANGING. 2 hrs.
The study of the instruments of the modern orchestra, their history, technical possibilities and limitations, and practical application of technique in public school work.
321. CHORAL ARRANGING. 2 hrs. I, II.
Score writing and arranging for vocal ensembles of two to eight parts.
338. MUSIC EDUCATION: MATERIALS AND METHODS IN SCHOOL
MUSIC (GRADES 1-6). 3 hrs.
Intensive study of vocal and instrumental materials and methods of presentation of music in grades 1-6.
340. MUSIC EDUCATION: MATERIALS AND METHODS IN SCHOOL
MUSIC (GRADES 7-12). 3 hrs.
Intensive study of vocal and instrumental materials and methods of presentation of music in grades 7-12.
370. MUSIC MATERIALS AND PROCEDURES. 3 hrs. I, II, S.
Materials and procedures for teaching music in nursery school, kindergarten and grades 1-6.
PR: Music 175 and 303.
380. INSTRUMENTAL CONDUCTING. 2 hrs.
Techniques and mechanics of the baton with emphasis on securing attacks, releases, dynamics, and tempo changes. Analysis of band and orchestral scores with practical application.
PR: Junior standing.
- 422-423. HISTORY AND LITERATURE OF MUSIC. 3; 3 hrs. I, II.
From early music to romantic period, including form and texture in music, study of major works of music of all periods, listening to music, project reports. Designed for music majors.
424. CHURCH MUSIC. 2 hrs. II.
A study of liturgical music and its uses in the church service. Open to advanced music students or consent of instructor.
430. COMPOSITION. 2 hrs. II.
Experience in writing music compositions in various forms.
PR: Music 216 and 301.

440. PIANO TEACHING TECHNIQUES AND MATERIALS. 2 hrs. II, S.
Materials and techniques of presentation; development of reading skills; basic fundamentals of technique; cultivation of musicianship. Emphasis is on elementary and intermediate levels.
- 472-473-474-475. SPECIAL TOPICS. 1-4;1-4;1-4;1-4 hrs.
480. CHORAL CONDUCTING. 2 hrs. I.
Continuation of Music 380 with emphasis on interpretations, voice classification, intonation, choral repertoire, and program building. Opportunity for practical experience is provided by the various college choral organizations.

NURSING (NUR)

Professor Sarah L. Patram, Chairman

COLLEGE OF APPLIED SCIENCE

Associate Professor Patram
Assistant Professors Asher, Bisato
Instructors Bertram, Kopp, Parsons, Wilson
Teaching Assistants Andrews, Giompalo, Holliday, Paxson

101. NURSING. 6 hrs. I.
Designed to develop understanding, knowledge and skills in nursing care common to all patients. Clinical laboratory experience included.
102. NURSING II. 6 hrs. II.
Theory and application of principles of nursing care used in meeting common nursing needs of patients with medical and surgical conditions. Clinical laboratory experience included.
PR: Nursing 101 and Home Economics 210 and Zoology 225.
204. NURSING III. 10 hrs. I.
Study of the interdependence of mental and physical health and illness as related to the patient, family and community and nursing care required by these patients.
PR: Nursing 102.
210. NURSING IV. 3 hrs. II.
A study of historical developments, current issues and problems, nursing organizations, legal aspects and responsibilities of nursing.
PR: Nursing 102.

211. NURSING V. 8 hrs. II.
A study of maternal and child health needs and family centered nursing care to meet these needs.
PR: Nursing 102.

**OFFICE ADMINISTRATION
(OAD)**

Dr. Sara E. Anderson, Chairman

SCHOOL OF BUSINESS

Professor Anderson
Instructors Chapman, MacConney, Overholt

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 accurately.

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 accurately.

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.

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.

**PHILOSOPHY
(PHL)**

Dr. Howard A. Slaatte, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professor Slaatte
Associate Professors Mininni, Plott

201. INTRODUCTION TO PHILOSOPHY. 3 hrs. I, II, S.
Questions and answers concerning the nature of existence and human values and how we come to know them.
303. ETHICS. 3 hrs. I.
The history of moral ideas and a critical study of different ways of dealing with moral problems.
304. LOGIC AND SCIENTIFIC METHODS. 3 hrs. I, II, S.
The analysis of the correct principles of thinking and observation.
306. AESTHETICS. 2 hrs. II.
Examination of the qualities involved in the appreciation of beauty which serve as standards of taste.
311. SURVEY OF ANCIENT AND MEDIEVAL PHILOSOPHY. 3 hrs. I.
312. SURVEY OF MODERN PHILOSOPHY. 3 hrs. I.
PR: Philosophy 201 or 311 or 410.
315. THE DEVELOPMENT OF AMERICAN PHILOSOPHY. 2 hrs. S.
Great American thinkers from Jonathan Edwards to the present.
320. COMPARATIVE RELIGION. 3 hrs. Alternate Years, S.
The relation of the world's religion to human culture and the role of religious faith in the establishment 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.
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.

411. JOHN DEWEY: PHILOSOPHER AND EDUCATOR. 3 hrs. Alternate years, S.
Exposition of Dewey's philosophy as background for his views on 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. 3 hrs. II, S.
A critical survey and sharing of research in theories of the meaning of history from ancient thinkers until today, including cyclical, progressive, economic, dialectical and theological types.
PR: Permission of chairman.
453. PHILOSOPHY OF SCIENCE. 3 hrs. II.
Reflections on crucial concepts of modern science relevant to philosophical issues in interpreting man and the universe, special attention given to epistemological and ontological problems of mathematics and physical and social sciences.
PR: Permission of department chairman.
455. THE PHILOSOPHY OF RELIGION. 3 hrs. II.
A survey of the major classical and modern arguments for theism

with special attention to modern philosophies of man's religiosity, ranging from Kant and Schleiermacher to Personalism and Existentialism.

PR: Nine hours between philosophy and religion.

495H-496H. READINGS FOR HONORS IN PHILOSOPHY. 4; 4 hrs.

Open only to philosophy majors of outstanding ability. Both courses must be taken in order to receive credit.

See Honors Courses, page 60 .

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

Dr. Donald C. Martin, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Sciences)

Professor D. Martin

Associate Professors Dils, Dumke, L. Plymale, Manakkil

Assistant Professors Oberly, Rutherford, Shanholtzer

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 100 or 120.

201-203. GENERAL PHYSICS. 3; 3 hrs. I, II, S.

A course in general physics for all science majors with the exception of physics and engineering majors. 3 lec.

PR: Mathematics 120 and 122 or equivalent.

201E-203E. GENERAL PHYSICS. 4; 4 hrs. I, II, S.

A course in general physics for physics, mathematics, and engineering majors. 4 lec.

PR: Mathematics 131.

CR: Mathematics 230.

- 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.

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 447 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 447 or consent of instructor.

482-483-484-485. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs. I, II, S.

By permission of department chairman

Physical Science (PS)

109-110. GENERAL PHYSICAL SCIENCE. 4; 4 hrs. I, II, S.

The universe, energy and its various forms, force and motion. The crust of the earth, rocks, minerals, weather, and wave motion. For Teachers College students only.

PR: Mathematics Education 101 or equivalent.

400. ASTRONOMY. 3 hrs. I, S.

A study of the stars and planets and galaxies, planetary motion, cosmology, cosmography. Designed to assist teachers and others to develop an interest in astronomy.

PR: Physics 200-203 or Physical Science 109-110.

483. DEVELOPMENT OF SCIENTIFIC THOUGHT. 3 hrs. II, S.

A study of the men and ideas which have influenced science: the philosophy of their periods; the economic conditions leading to scientific advancement; and the works of the foremost men in this field.

PR: A total of twelve hours in physical science, physics, and chemistry courses.

POLITICAL SCIENCE
(PSC)

Dr. Paul D. Stewart, Chairman

COLLEGE OF ARTS AND SCIENCES

Professors Choi, Perry, Stewart
Associate Professor Abbas
Assistant Professors Carson, Matz, Rosswurn

201. AMERICAN NATIONAL GOVERNMENT AND POLITICS. 3 hrs. I, II, S.
The American federal government system, with emphasis on constitutionalism, governmental structure, and the political process.
202. AMERICAN STATE GOVERNMENT AND POLITICS. 3 hrs. I, II.
Study of the institutions, processes, and significance of this level of political life in America.
205. FUNDAMENTALS OF POLITICS. 3 hrs.
Comparative survey of major concepts; institutions; processes; and governments, including the British, French, and Soviet, as seminal models of modern political systems.
300. SCOPE AND METHOD IN POLITICAL SCIENCE. 3 hrs.
Study of the development of political science as a distinct science and discipline, and of the fundamentals of research in political science, such as bibliographical techniques; use of scientific method; textual and case-study approaches; and decision-making, power, communications and systems analysis.
301. URBAN GOVERNMENT AND POLITICS. 3 hrs.
Political systems in American cities and metropolitan areas.
303. AMERICAN POLITICAL PARTIES. 3 hrs.
Examination of the American party system, its origins, its development, and some of its major characteristics, as well as such topics as party organization, leadership recruitment, campaigns and elections, party impact on public policy, and party reform.
PR: Political Science 201 or 202.
307. PUBLIC OPINION AND PROPAGANDA. 3 hrs.
Study emphasizing the major determinants of attitudes and of opinion formation and change, analysis and measurement of opinions, and the linkage between opinions and official decision-making.

309. **FUNDAMENTALS OF INTERNATIONAL RELATIONS.** 3 hrs.
Survey of major concepts and approaches in the study of international relations and analysis of processes, institutions, strategies, and trends in world politics.
333. **PUBLIC ADMINISTRATION.** 3 hrs.
Introduction to modern theories of administration; the relation of administration to the political system and process; and analysis of administrative organizations and functions, including planning, personnel, and finance.
PR: Political Science 201 or 202.
370. **THE POLITICS OF TRANSITIONAL SOCIETIES.** 3 hrs.
Study of major concepts, institutions, and processes in political modernization, with comparative illustrations from various developing nations.
376. **BLACK POLITICS.** 3 hrs.
Study emphasizing power structures in black sub-committees, dissent and protest, problems and trends, and the uniqueness of black politics as compared with the politics of other ethnic groups.
381. **THE AMERICAN LEGISLATIVE PROCESS.** 3 hrs.
Structure and behavior of American national and state legislative systems; the impact of constituencies, parties, interest groups, interpersonal relations, and other factors on the legislative policy-making process; the role of the legislature as a subsystem in the larger political system; and problems and trends.
PR: Political Science 201 or 202.
383. **THE AMERICAN EXECUTIVE PROCESS.** 3 hrs.
Study of governmental executives in the American political system, with emphasis on the president, including analysis of constitutional status and powers, recruitment, administrative responsibilities, political and legislative leadership, accountability, and problems and trends.
PR: Political Science 201.
- 400-401-402-403-404. **SELECTED TOPICS.** 3;3;3;3;3 hrs.
To offer a course seminar or workshop on some special topic in the field of political science which is not adequately treated in the regular course offerings.
405. **INTERNATIONAL ORGANIZATIONS.** 3 hrs.
Study of world and regional organizations as reflections of world politics, as instruments of foreign policies, and as forces for change and order, with emphasis on their role as channels for management of cooperation and conflict.
PR: Political Science 309.

406. INTERNATIONAL POLITICS. 3 hrs.
Study of major issues in world politics, with emphasis on theoretical approaches, problems of war and peace, and contemporary trends.
PR: Political Science 309.
407. ASIAN POLITICS. 3 hrs.
Study of such nations as India, China, Japan, and Korea in the contemporary setting.
408. MIDDLE EASTERN POLITICS. 3 hrs.
Study of the Arab States and such nations as Israel, Iran and Turkey in the contemporary setting.
409. WESTERN DEMOCRATIC POLITICS. 3 hrs.
Study of such nations as Canada and those of Western Europe, particularly Great Britain and France.
410. EUROPEAN COMMUNIST POLITICS. 3 hrs.
Study of the Soviet Union and Eastern Europe.
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.
418. FOREIGN POLITICS OF WESTERN NATIONS. 3 hrs.
Study of the formulation, implementation, and consequences of the foreign policies of selected Western nations such as the U.S., Great Britain, and France, with consideration of variables influencing the content and direction of their international behavior.
419. FOREIGN POLICIES OF COMMUNIST NATIONS. 3 hrs.
Study of formulation, implementation, and consequences of the foreign policies of selected Communist nations such as the Soviet Union and China, with consideration of variables influencing the content and direction of their international behavior.
421. FOREIGN POLICIES OF DEVELOPING NATIONS. 3 hrs.
Study of the formulation, implementation, and consequences of the foreign policies of selected developing nations such as India, Nigeria,

and Brazil, with consideration of variables influencing the content and direction of their international behavior.

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. RECENT POLITICAL THOUGHT. 3 hrs.
Selective study of political thought of the 19th and 20th century, such as the philosophy, theory and ideology of democracy, socialism, elitism, communism, and facism.
429. THE POLITICS OF CONFLICT AND REVOLUTION. 3 hrs.
Study of major theories of conflict and revolution, and analysis of conflict-inducing and conflict-inhabiting factors related to system maintenance, with emphasis on the relevance of the literature in this area to the black community.
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 inter-relationships 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.
461. THE FUNCTIONAL DIMENSION OF URBAN POLITICS. 3 hrs.
Study of policy problems of metropolitan political systems in terms of the functional requirements of a viable urban community, with emphasis on problems having special relevance to the black community.
485. AMERICAN CONSTITUTIONAL LAW: POWERS AND RELATIONSHIP. 3 hrs. I.
The basic structural and functional principles of American constitutional government, with emphasis on leading cases relative to judicial, congressional, and presidential powers; separation of powers; and federalism.
PR: Political Science 201.

486. AMERICAN CONSTITUTIONAL LAW; CIVIL LIBERTIES.
3 hrs. II.
The basic substantive and procedural principles of American constitutional liberty, with emphasis on leading cases and readings relative to the freedoms, equality, and due process of law.
PR: Political Science 201.
- 495H-496H. READINGS FOR HONORS IN POLITICAL SCIENCE.
4; 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, page 60 .

PSYCHOLOGY (PSY)

Dr. George Ward, II., Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professors Ward, Wolf
Assistant Professors Alsip, Chezik, Ross, Schwendiman

201. GENERAL PSYCHOLOGY. 3 hrs. I, II, S.
The principles and methods in the scientific study of behavior.
204. PERSONALITY AND ADJUSTMENT. 3 hrs. I, II, S.
Modes of personal and social adjustment; assessment and treatment techniques.
PR: Psychology 201.
223. INTRODUCTION TO PSYCHOLOGICAL METHODS. 3 hrs.
I, II, S.
Orientation to the philosophy of science; survey of methods in behavior study; elementary statistics.
PR: Psychology 201.
302. SOCIAL PSYCHOLOGY. 3 hrs. I, II.
Psychological interrelationships in group behavior.
PR: Psychology 201.
311. PSYCHOLOGICAL DEVELOPMENT: INFANCY TO OLD AGE.
3 hrs. I, II, S.

- Psychological characteristics and personal and social problems of developmental periods of life span.
PR: Psychology 201.
323. EXPERIMENTAL PSYCHOLOGY OF LEARNING AND MOTIVATION.
3 hrs. I.
Methodology and research in learning and motivation. 2lec-2 lab.
PR: Psychology 223.
324. EXPERIMENTAL PSYCHOLOGY OF SENSATION AND PERCEPTION.
3 hrs. II.
Methodology and research in sensory and perceptual processes. 2 lec-2 lab.
PR: Psychology 223.
340. PHYSIOLOGICAL PSYCHOLOGY. 3 hrs. II.
The relationships between physiological functions and biochemical processes and behavior.
PR: Psychology 201.
402. ADVANCED SOCIAL PSYCHOLOGY. 3 hrs. II.
Advanced study of selected topics in social psychology.
PR: Psychology 223, Psychology 302 or consent of instructor.
406. MENTAL ABILITIES: TEST INTERPRETATION. 3 hrs. I, S.
The nature of intelligence; interpreting mental test data.
PR: Psychology 223, 311; for education majors, Education 435 and consent of instructor.
408. PSYCHOLOGY OF ABNORMAL BEHAVIOR. 3 hrs. II.
A bio-social approach to the nature, conditions and modification of ineffective human behavior.
PR: Psychology 311.
416. PSYCHOLOGY OF LEARNING. 3 hrs. II.
Critical study of the major theories of learning and the related research.
PR: Twelve hours of psychology including Psychology 323.
417. PSYCHOLOGICAL STATISTICS. 3 hrs. II.
An intermediate level presentation of descriptive and inferential statistics as applied in behavioral research. 2 lec-2 lab.
PR: Psychology 323, 324, 406; Mathematics 120.
418. PSYCHOLOGY OF PERSONNEL. 3 hrs. I, II.
Psychological principles and methods applied to functions in personnel administration.
PR: Psychology 201.

460. HISTORY AND SYSTEMS OF PSYCHOLOGY. 3 hrs. I.
PR: Twelve hours of psychology.
490. PROBLEMS IN PSYCHOLOGY. 1-4 hrs.
Independent study and research.
PR: Senior standing, 20 hours of psychology, and consent of department chairman.
- 495H-496H. READINGS FOR HONORS IN PSYCHOLOGY. 4; 4 hrs. I, II.
Open only to psychology majors of outstanding ability. Both courses must be taken to receive credit.
See Honors Courses, page 60.

SOCIAL STUDIES (SOS)

Dr. Edwin Cubby, Chairman

TEACHERS COLLEGE

Professors Cubby, Brown
Associate Professors Callebs, Cleveland, Coffey, Williams
Assistant Professors Cox, Karr, Paynter
Instructors Burchett, Goen, Gruber, Riddel

- 104-105. WESTERN CIVILIZATION IN ITS WORLD SETTING. 3; 3 hrs.
I, II, S.
An interpretative historical survey of the development of the contemporary world with emphasis on western civilization. A division is made at 1660.
- 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.
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.
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.
Social studies majors and minors with permission of the department
chairman.
- 495H-496H. READINGS FOR HONORS IN SOCIAL STUDIES. 3; 3 hrs., I, II.
See Honors Courses page 60 .

SOCIOLOGY AND ANTHROPOLOGY

Dr. O. Norman Simpkins, Chairman

COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professors Simpkins, Habel, Sill
Assistant Professors Grubbs, Kearney, Singh.

Anthropology (ANT)

301. CULTURAL ANTHROPOLOGY. 3 hrs.
Introduction to the scientific study of culture with emphasis on the
cultures of small-scale societies.
343. PRIMITIVE CULTURES. 3 hrs.
Comparative analysis of selected small-scale cultural systems.
PR: Anthropology 301.
405. COMMUNITY DEVELOPMENT. 3 hrs.
Principles of applied anthropology in community development.
PR: Six hours of anthropology and sociology.
426. AFRICAN CULTURES. 3 hrs.
Comparative analysis of the tribal cultures of Africa.
PR: 6 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 permission of instructor.
430. THE AMERICAN INDIAN. 3 hrs.
Comparative analysis of Indian tribal cultures of the Americas.
PR: Six hours of anthropology or permission of instructor.

455. APPALACHIAN CULTURE. 3 hrs.
Analysis of the culture of Appalachia.
PR: Six hours of anthropology or permission of instructor.
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.

Sociology (SOC)

- 101-102. INTRODUCTION TO THE BEHAVIORAL SCIENCES. 3;3 hrs.
An interdisciplinary introduction to the basic behavioral sciences.
200. INTRODUCTORY SOCIOLOGY. 3 hrs.
Introduction to the study of human society. (Open to freshmen).
208. MARRIAGE RELATIONS. 3 hrs.
A functional course in the personal, social, and cultural factors involved in courtship and marriage. (Open to freshmen). (May not be taken for credit on major.)
PR: None.
300. PRINCIPLES OF SOCIOLOGY. 3 hrs.
Analysis of sociological conceptual systems and theories. (Required of all majors.)
PR: Sociology 200.
302. SOCIAL PSYCHOLOGY. 3 hrs.
(Same as Psychology 302. Taught in the Department of Psychology.)
PR: Psychology 201.
305. COMMUNITY ORGANIZATION. 3 hrs.
Comparative analysis of the social organization of various types of communities with emphasis on communities in large-scale societies.
PR: Sociology 200.
307. PUBLIC OPINION AND PROPAGANDA. 3 hrs.
(Same as Political Science 307. Taught in the Department of Political Science.)
310. SOCIAL BEHAVIOR. 3 hrs.
The sociology of the individual.
PR: Sociology 200.

311. DEVIANT BEHAVIOR. 3 hrs.
Study of the basic concepts and theories of deviant social behavior and the correlative social disorganization.
PR: Sociology 310 or Sociology or Psychology 302.
313. CONTEMPORARY SOCIAL ISSUES. 3 hrs.
Sociological analysis of current social issues. Specific issues studied will vary from time to time.
PR: Sociology 101 or 102 or 200 or Social Studies 201.
320. CRIMINOLOGY. 3 hrs.
Introduction to the social aspects of criminal behavior.
PR: Sociology 311.
325. SOCIOLOGY OF THE NEGRO. 3 hrs.
Sociological analysis of the Negro in American society.
PR: Sociology 200.
332. RURAL-URBAN COMMUNITIES. 3 hrs.
Sociology of rural and urban communities with emphasis on the process of urbanization.
PR: Sociology 303.
342. AMERICAN SOCIETY. 3 hrs.
Sociological analysis of the basic social and cultural features of contemporary American society.
PR: Sociology 200.
344. SOCIAL RESEARCH I. 3 hrs.
Introduction to systematic sociological research methodology. 2 lec-2lab.
PR: Sociology 200.
CR: Sociology 345.
345. SOCIAL STATISTICS I. 3 hrs.
Introduction to statistical analysis of social data. 2lec-2lab. (Psychology 223 may be submitted for this course by those whose minor is Psychology.)
CR: Sociology 344.
400. HUMAN ECOLOGY. 3 hrs.
Study of the ecological structure and processes of human communities, regions, and areas.
PR: Sociology 200.
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.
403. SOCIAL RESEARCH II. 3 hrs.
Intermediate social research methodology with emphasis on research design. 2 lec-2lab.
PR: Sociology 345.
408. THE FAMILY. 3 hrs.
Theoretical analysis of the family as a primary social institution.
PR: Six hours of sociology.
409. SOCIAL WELFARE. 3 hrs.
The development of social welfare as a contemporary social institution and of social work as a profession. (Limited enrollment.)
(Advance permission required.)
PR: Sociology 305.
CR: Sociology 431.
410. SOCIAL WORK. 3 hrs.
Preprofessional introduction to social case work and to social group work. (Limited enrollment.) (Advance permission required.)
PR: Sociology 409 and 431.
CR: Sociology 432.
412. SMALL GROUPS. 3 hrs.
Study of the dynamics of small groups with emphasis on role theory.
PR: Psychology or Sociology 302 or Sociology 310.
413. COLLECTIVE BEHAVIOR. 3 hrs.
Analysis of non-rational uninstitutionalized social behavior.
PR: Six hours of sociology or permission of department.
421. SOCIOLOGICAL THEORY I.
The development of social thought and early sociological theory.
PR: Six hours of sociology or permission of instructor.
429. SOCIAL LEGISLATION. 3 hrs.
Contemporary social welfare legislation and its social implications.
PR: Six hours of sociology or permission of instructor.
431. FIELD STUDY I. 3 hrs.
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 409.

PR: Sociology 305 and permission of instructor.

CR: Sociology 409.

432. FIELD STUDY II. 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. Must be registered for Sociology 410.

PR: Sociology 409, 431, and permission of instructor.

CR: Sociology 410.

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.

435. JUVENILE DELINQUENCY. 3 hrs.

Theories of delinquency causation and prevention; organization and functions of social agencies operating in the field.

PR: Sociology 311.

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.

445. SOCIAL STATISTICS II. 3 hrs.

Intermediate level statistical analysis, including analysis of variance and covariance. 2 lec.-2 lab.

PR: Sociology 345.

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 409, 410, 431, 432.

CR: Sociology 447.

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.

PR: Sociology 409, 410, 431, 432.

Sociology 446.

448. CHILD WELFARE. 3 hrs.

Survey of the development of children's services from colonial times to the present.

PR: Sociology 409, 410, 431, 432.

CR: Sociology 449.

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.

PR: Sociology 409, 410, 431, 432.

CR: Sociology 448.

450. SOCIOLOGY OF RELIGION. 3 hrs.

Sociological analysis of religion as a social institution.

PR: Six hours of sociology or departmental permission.

460. SENIOR SEMINAR. 1 hr.

Seminar on sociology as a profession; including the passing of a comprehensive examination of all major courses and taking the Graduate Record Examination. (Required of all majors.)

PR: Graduating senior status, majors only.

495H-496H. READINGS FOR HONORS IN SOCIOLOGY. 4; 4 hrs. I, II.

Open only to sociology majors of outstanding ability. Both courses must be taken to receive credit.

See Honors Courses, page 60 .

**SPEECH
(SPH)**

Dr. George J. Harbold, Chairman

COLLEGE AND ARTS AND SCIENCES

(Division of Humanities)

Professors Harbold, Buell, Dedmon, Garrett, Hoak, Hope, Novak,
Olson, Page, Ranson
Associate Professors Cortes, Kearns, Kellner
Assistant Professors Compton, Denman, East, D. Johnson, Lustig, Milicia
Instructors Dunlap, Edmunds, Greenwood, McCarnes, B.R. Smith,
Sullivan, Witofsky.

103. FUNDAMENTALS OF SPEECH-COMMUNICATION. 3 hrs. I, II.
Not open to juniors and seniors.
202. PRACTICAL PUBLIC SPEAKING. 2 hrs. I, II.
Theory and extensive practice in the various types of public speeches.
PR: Speech 103.
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.
PR: Speech 103, or permission of department chairman.
- 225-226. INTERCOLLEGIATE DEBATE. 1; 1 hr. I, II.
PR: Permission of instructor.

227-288. ACTING OR DIRECTING IN UNIVERSITY THEATRE PRODUCTIONS. 1 hr. each.

Those cast in major roles of Marshall University Theatre productions, chosen by audition in open competition from the entire student body, are eligible to take this course. Also eligible are student directors.

PR: Permission of instructor only after tryouts which are held in the first week of the semester.

230. INTRODUCTION TO RADIO AND TELEVISION. 3 hrs. I, II.

A survey course which provides an overview of the field of broadcasting.

PR: Speech 103.

231. RADIO PRODUCTION AND BROADCAST SPEECH. 3 hrs. II.

Training in the operation of radio equipment, microphone technique, tape editing and radio production. One hour of laboratory studio work at WMUL-Radio is required.

PR: Speech 230.

232. RADIO-TELEVISION CONTROL ROOM PROCEDURES. 3 hrs. I.

Principles of electronic reproduction of sound and pictures. Mastery of broadcasting equipment, leading to a third-class radiophone license.

PR: Speech 103 and 230.

233. INTRODUCTION TO TELEVISION PRODUCTION. 3 hrs. I, II.

An introduction to the fundamentals of television production dealing with cameras, microphones, lighting, and staging.

PR: Speech 103 and 230.

237-238. PRACTICE IN BROADCASTING. 1 hr. each. I, II.

Staff responsibility on campus radio station, WMUL.

PR: Written permission before registration and the satisfactory completion of one year of service on WMUL.

240. VOICE TRAINING. 3 hrs. I, II.

Theory and practice of speech production and improvement.

PR: Speech 103.

250. STORYTELLING AND DRAMATIZATION. 3 hrs. I, II.

Training in creative dramatics and telling of stories primarily for teachers of nursery schools, kindergartens and elementary schools.

PR: Speech 103.

301. PARLIAMENTARY PROCEDURES. 1 hr. I, II.

A study of the rules of parliamentary law with practice in their usage.

305. PRINCIPLES OF PUBLIC ADDRESS. 3 hrs. I, II.
Beginning course, open to juniors and seniors who have not had Speech 103 or 202, or permission of department chairman.
306. ADVANCED PUBLIC SPEAKING. 3 hrs. I, II.
Advanced forms and practice of exposition and persuasion.
PR: Speech 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.
PR: Speech 210.
320. ORAL INTERPRETATION OF LITERATURE. 3 hrs. I, II.
The fundamentals of reading, analyzing, and interpreting literature.
PR: Speech 103 and 240.
321. DRAMATIC READING AND PLATFORM ART. 3 hrs.
Oral interpretation with emphasis on public performance.
PR: Speech 320.
- 325-326. INTERCOLLEGIATE DEBATE. 1; 1 hr. I, II.
Continuation of Speech 225-226.
PR: Permission of instructor.
- 327-328. ACTING OR DIRECTING IN UNIVERSITY THEATRE PRODUCTIONS. 1 hr. each.
Those cast in major roles of Marshall University Theatre productions, chosen by audition in open competition from the entire student body, are eligible to take this course. Also eligible are student directors.
PR: Permission of instructor only after tryouts which are held in the first week of the semester.
330. RADIO, TELEVISION AND SOCIETY. 3 hrs. I.
The unusual effects of these agents upon society and their place in modern communications.
PR: Speech 230.
331. RADIO-TELEVISION ANNOUNCING AND NEWSCASTING.
3 hrs. II.

Specialized training in the interpretative skills of announcing and newscasting.

PR: Speech 240 and Speech 231.

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 radio station WMUL.
PR: Written permission before registration and the satisfactory completion of one year of service on WMUL.
370. LANGUAGE AND SPEECH DEVELOPMENT. 3 hrs.
Sequential patterns in the acquisition of language and speech in relationship to general child development.
403. PLAY DIRECTION. 3 hrs. I.
Primarily for those who will produce plays in schools, churches, and communities.
PR: Speech 210, 312, 313, except for language arts majors.
405. ADVANCED ACTING. 3 hrs. II.
Styles of acting. Interpretation of roles from classical, romantic, and modern dramas.
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. COMMUNICATION DISORDERS OF SCHOOL CHILDREN. 3 hrs.
A survey of the causes, symptoms, and treatment of communication disorders encountered in the classroom. Not open to speech pathology majors.

420. VOICE IN COMMUNICATIONS. 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 COMMUNICATIONS. 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 requirement for West Virginia Certification in Speech and Hearing.
PR: Speech 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 RADIO AND TELEVISION PRODUCTION. 3 hrs. I, II.
Radio and television techniques; programming, announcing, and acting.
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 PROGRAM PLANNING. 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. Formerly 339.
PR: Speech 240 or equivalent and Speech 429.
440. PLAY WRITING. 3 hrs.
Principles of dramatic construction. Writing of one-act plays and sketches for experimental and public performance.
445. CHILDREN'S THEATRE. 3 hrs.
Theory, direction, and staging of plays for children. Creative dramatics is included. Laboratory work on a production for the public and individual design-productions.

446. THEATRE HISTORY. 3 hrs.
A survey of mankind's activities in the theatre from primitive times to the present.
447. SCENE DESIGN. 3 hrs.
The fundamental aesthetic and technical principles of staging are applied to the educational theatre. Specific attention is given to the generation of a design from the play manuscript. Laboratory work is provided through the University Theatre.
PR: Speech 312 and 313.
448. ADVANCED TECHNICAL THEATRE. 3 hrs.
Advanced work in technical phases of mounting a stage production.
PR: Speech 312-313.
450. DIRECTION OF SPEECH ACTIVITIES. 3 hrs. II.
For those responsible for extra-curricular speech: debate, extempore speaking, oral reading, discussion, oratory.
PR: 15 hours of speech or permission of department chairman.
460. HEARING IN COMMUNICATION. 3 hrs.
Psychophysical processes underlying auditory perception; basic audiometry; a survey of hearing disorders.
PR: speech 370, 429, 439.
463. METHODS AND MATERIALS WITH HEARING DISORDERS. 3 hrs.
Auditory training and speech reading procedures with the hearing handicapped.
PR: Speech 460, 470.
468. METHODS AND MATERIALS WITH SPEECH DISORDERS. 3 hrs.
Organization and administration of school programs for speech and/or hearing handicapped children; therapeutic procedures in a school setting.
PR: Speech 470.
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, page 60.

UNIVERSITY HONORS (UH)

Professor Eric P. Thorn, Director

Seminars designed to provide gifted university students an exciting and demanding course of study; a Great Issues curriculum which cuts across many areas of knowledge and permits the pursuit of individual research projects.

A student may enroll for three to twelve hours in interdisciplinary honors seminars and for a maximum of eight hours in departmental readings for honors. No honors seminar serves as a prerequisite for any of the other seminars, which may be taken individually or sequentially.

195H-196H. INTERDISCIPLINARY HONORS. 3; 3 hrs.

Open to distinguished freshmen selected on the basis of their ACT scores, high school records, and a personal interview with the Director of University Honors.

395H-396H. INTERDISCIPLINARY HONORS. 3; 3 hrs.

Open to distinguished sophomores and upper classmen of the four undergraduate colleges and schools. Such students may apply for admission to the seminar through the Director of University Honors.

495H-496H. DEPARTMENTAL READINGS FOR HONORS.

See individual departmental listings.

Index

A

Abbreviations, 187
Absences, 54
Academic Information, 51
Academic Probation, 55
Academic Publications, 61
Accounting, 180, 187
Accreditation, 39
Administrative Officers, 5
Admission, 45
Advanced Placement, 50
Advertising Curriculum, 149
Advisers, Undergraduate, 51
Advisory Board, 5
Advisory Programs, 51
Alumni Affairs, 41
Alumni Association, 41
American College Test, 48
Anthropology, 135, 285
Appalachian Studies, 186
Art
 Courses, 188
 Major, College of Arts and Sciences, 135
 Major, Teachers College, 107, 108, 109
Artists Series, 43
Associate in Arts, 130, 134
Associate in Science, 177, 178
Associate in Science in Cytotechnology, 162
Associate in Science in Nursing, 162, 175
Athletics, Intercollegiate, 83
 Intramural, 82
Attendance Policy, 54
Audiovisual Center, 43
Audit, 59,

B

Bachelor of Arts, 131, 132
Bachelor of Business Administration, 177
Bachelor of Engineering Science, 162, 164
Bachelor of Science, 131, 133, 138
Bachelor of Science in
 Chemistry, 131, 134, 138, 139
Bachelor of Science in
 Civil Engineering, 162, 164
Bachelor of Science in
 Cytotechnology, 162
Bachelor of Science in Medical
 Technology, 162, 169
Band, 81
Bible and Religion
 Courses, 191
 Major in, 137
Biological and General Science, 109
Biological Science 136, 192
Biological Sciences, 192
Biology, Courses, 192
Black Studies, 186

Board of Regents, 5
Botany
 Courses, 194
 Major, 137
Branches, 39
Broadcast Journalism, 150
Broadcasting Curriculum, 156
Buildings, 39
Business, School of, 177
Business Administration
 Bachelor of, 177, 179
Business Core Courses, 185
Business Education, 110
Business Principles, 111

C

Calendar, University, 4
Campus Christian Center, 40
Career Planning and Placement, 80
Certificates
 Journalism, 147
 Teaching, 90
Change of Schedule, 51
Chemistry
 Advanced Placement, 139
 Bachelor of Science in, 131, 138
 Courses, 196
Chemistry and General Science, 111
Choral Groups, 81
Christian Center, 40
Civil Engineering
 Curriculum, 166
 Courses, 214
Classical Languages
 Courses, 200
 Major in, 140
Classification of Engineering
 Students, 52
Classification of Students, 51
College of Applied Science, 162
College of Arts and Sciences, 130
Combined College and Professional
 Degrees, 159
Community Services, 76
Comprehensives and Subject
 Specializations, 106
Computer Center, 41
Computer Science, 186
Conduct, 80
Continuing Education, 75
Convocations, 43, 81
Correspondence Directory, 2
Counseling and Rehabilitation, 206
Courses, 187
Credit
 Nonresident, 75
 Semester Hour, Definition of, 51
 Semester Load, 51

Transfer of, 47
Curriculum and Instruction, 207
Cultural Life, 81
Cytotechnology, 162-163
Courses, 202

D

Dates, see Calendar, 4
Dean's List, 59
Debate, 81
Dentistry, Preparation for, 161
Development and Alumni Affairs, 41
Dietitians, 145
Dining Hall, 40
Directory, Correspondence, 2
Diversified Subjects Requirements, 105
Divisions of University, 39
Dormitory Information, 77

E

Early Childhood Education, 94
Economics
Courses, 203
Major in, 140
Education
Courses, 206
Educational Foundations, 212
Electrical Engineering, 216
Elementary School Teaching, 95
Employment, Student, 87
Engineering
Awards, 165
Bachelor of Science in Civil
Engineering, 162, 164, 214
Bachelor of Engineering
Science, 162, 164
Building, 41
Classification of Students, 52, 165
Courses, 214
Engineering Mechanics, 217
English
Courses, 220
Major in, 141
Qualifying Examination, 56
Teaching Field, 112
Evelyn Hollberg Smith Music
Hall, 40
Evening School, 75
Extension Classes, 75

F

Faculty, 6
Retired, 35
Fairfield Stadium, 41
Fees
Activity, 63
Auditing, 70
Classification for Assessing, 72
Dormitory, 65
Enrollment, 62
Estimate of Expenses, 67
Extension Division, 65
Fractional Hours, 63
Per Credit Hour, 63
Refunds, 70

Registration Fees
Full-time, Part-time
Students, 63
Resident, Nonresident, 63
Tuition, 63
Remissions, 69

Field House, 41
Finance, 181, 224
Forestry, 141
Forums, 43, 81
Four-Year Curriculums, 135, 179
Fraternities, 83
French
Courses, 259
Major, 151
Teaching Field, 112
Freshman
Advisors, 51
Orientation, 50
Full-time Student, Definition of, 51

G

General Core Courses, 184
General Education 135
General Education Development Test, 49
General Engineering Curriculum, 167
Courses, 218
General Science, 113
Geography
Courses, 225
Major in, 142
Geology
Courses, 228
Major in, 143
Geology Museum, 43
German
Courses, 261
Major in, 151
Teaching Field, 113
Grades and Quality Points, 52
Graduation Fee, 68
Grants, 85
Greek, Courses in 200
Gullickson Hall, 40

H

Health and Physical Education, 114, 117
Health Insurance, 79
Health, Physical and Safety
Education, 230
Health Service, 79
History of University, 37
History
Courses, 238
Major in, 144
Hodges Hall, 41
Home Economics
Courses, 241
Major in College of Arts and
Sciences, 145
Teaching Field, 117, 118
Home Economics Education, 213, 241
Honors
Courses, 60
Dean's List, 59
Description, 60

Engineering, 165
Graduating with, 60
Organizations, 83
University, 299
Housing
Family Dwelling Units, 67, 78
Married Students, 67, 78
Policy, 78
Resident Halls
Fees, 65
Huntington, 39
Huntington Memorial Field
House, 41

I

Inservice Credit, 89
Insurance, Student: Accident and
Sickness, 79
Intercollegiate Athletics, 83
Interdisciplinary Studies, 245
International Affairs, 146, 186
International Students, 50
Intramurals, 82

J

James E. Morrow Library, 40
Journalism
Broadcast, 150
Courses, 245
Curriculum for Teachers, 119
Major in, 147

L

Laboratory Experiences, 89
Laidley Hall, 40
Language Arts, 119, 120
Latin
Courses, 200
Major in, 140
Teaching Field, 120
Law, Preparation for, 161
Liability, 80
Library, 40, 42
Librarians, 34
Library Science
Courses, 248
Teaching Field, 121
Loans, 86
Location of University, 39
Lucy Prichard Hall, 41

M

Maintenance, 41
Management, 181, 250
Marketing, 181, 251
Marshall Alumni Association, 41
Marshall Artists Series, Inc., 43
Marshall Foundation, 41
Marshall University Memorial
Center, 41
Mathematics
Courses, 253
Major in, 150
Teaching Field, 122, 123

Mathematics Education, 213
Medical Technology, 169
Courses, 256
Curriculum, 170
Mechanical Engineering, 219
Medicine, preparation for, 159
Memorial Center, 41
Memorial Field House, 41
Military Science, 172
Courses, 258
Modern Languages, 259
Major in, 151
French, 112, 151, 259
German, 113, 151, 261
Spanish, 127, 151, 262
Morrow Library, 40, 42
Multi-Departmental, 186
Music
Applied, 152
Courses, 264
Major in College of Arts and
Sciences, 151
Organizations, 83
Requirements for music majors, 264
Teaching Field, 123
Music Education, 213
Music Hall, 40

N

National Teachers Examinations, 93
Noncredit Courses, 59
Nonresident Credit, 75
Nonresident Fees, 63
Northcott Hall, 40
Nursery, 41
Nursing
Courses, 269
Major, 175

O

Office Administration, 182, 270
Officers of Administration, 5
Old Main, 40
Optometry, Preparation for, 161
Orchestra, 81
Organizations, 83
Orientation Program, 50
Osteopathy, preparation for, 161

P

Philosophy
Courses, 272
Major in, 152
Physical Education
Buildings, Women's 40
Courses, 230
Major in Arts and Sciences, 153
Teaching Field, 114, 117
Physics, 154, 274
Physical Science, 277
Physics and General Science, 125
Physics and Physical Sciences, 274
Placement, 80
Political Science
Courses, 278

Major in, 154
President's House, 40
Pre-Student Teaching, 89
Prichard Hall, 41
Probation, Academic, 55
Professional Laboratory Experiences, 89
Professional Librarians, 34
Professional Schools, 161
Psychology
 Courses, 282
 Major in, 155
Publications
 Academic, 61
 Student, 82
Purpose of University, 37

Q

Quality Points, 52
Qualifying Examination in English
 Composition, 56

R

Radio and Television
 (See Journalism and Speech)
Radio Station WMUL, 43
Reading Center, 80
Readmission After Scholastic
 Deficiencies, 55
Regents, 5
Rehabilitation Education, 96
Religion, Bible and, 137, 191
Religious Life, 82
Religious Center, 40
Religious Organizations, 83
Reserve Officers Training Corps
 (See Military Science)
Residence Halls, 40, 77

S

Safety Education, 213, 230
 Teaching Field, 125
Schedule, Change of, 51
Scholarships, 85, 173
School of Business, 177
Science Education, 213
Science Building, 40
Secondary School Teaching, 97
Secretarial
 School of Business, 178
 Teaching Field, 126
Secretarial Studies, 126
Selective Admissions Policy, 49
Semester Hour, definition, 51
Semester Load, 51
Shakespeare Room, 43
Shawkey Building, 40
Social Studies
 Courses, 234
 Teaching Field, 126, 127
Sociology
 Courses, 286
 Major in, 155
Sociology and Anthropology, 285
Sororities, 84
South Hall, 41
Spanish

Courses, 262
Major in, 151
 Teaching Field, 127
Special Education, 98, 213
Speech
 Major in, 155
 Pathology and Audiology, 157
 Teaching Field, 128
 Courses, 291
 Debate and Public Speaking, 81
 Speech and Hearing Clinic, 79
 Speech and Hearing Therapy, 128
 Statement of Institutional Purposes, 37
 Stewart Harold Smith Hall, 40
 Student Center, 41
 Student Conduct, 80
 Student Employment, 87
 Student Financial Aid, 85
 Student Government, 80
 Student Health Service, 79
 Student Organizations, 83
 Student Publications, 82
 Student Teaching, 90
 Student Union, 41
 Study Year Abroad, 57

T

Teacher Education Curricula, 103
Teacher Education Programs, 94
Teachers College, 89
Teaching All Grades, 102
Teaching and School Services, 103
Technologists, Medical, 169
Telecommunications Center, 41
Television (See Radio)
Television Station WMUL-TV, 43
Theatre, 81
Transcripts, 60
Transfer Students, Admission, 47
Twin Towers Residence Hall, 41
Two-Year Curricula, 134, 178

U

University Heights Campus, 41
University Honors, 298
University Theatre, 81
University, Withdrawal from, 53

V-W-Z

Veteran's Physical Education Credit, 57
Veterinary Medicine, 161
Vocational-Technical Education, 213
West Hall, 41
Withdrawal, 53
WMUL Radio, 43
WMUL-TV, 43
Zoology
 Courses, 194
 Major in, 158

