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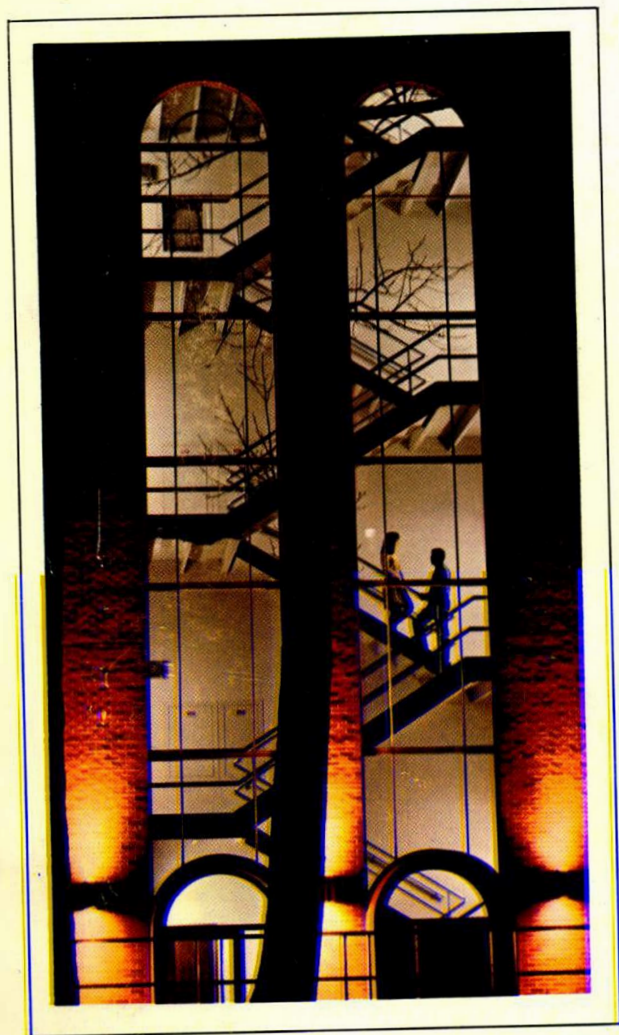
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**1969-70**  
**Marshall University**

This Bulletin contains information of general value to high school graduates, other prospective students, parents, and students enrolled in Marshall University. Complete information as to entrance requirements, fees and expenses, living accommodations, requirements for graduation, and a brief statement of courses of study are given.

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

For further information address the Director of Admissions, Marshall University, Huntington, W. Va. 25701.

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# MARSHALL UNIVERSITY BULLETIN



GENERAL  
UNDERGRADUATE  
CATALOG  
1969 - 1970

HUNTINGTON, WEST VIRGINIA  
25701



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

**Admission**

Director of Admissions

**Adult Education**

Director of Adult Education

**Alumni Affairs**

Director of Alumni Affairs

**Business Matters, Expenses**

Vice President of Business

Director of Finance

**Employment, Placement**

Director of Career Planning and Placement

**Graduate Study**

Dean of the Graduate School

**Student Housing**

Housing Director and Facilities Coordinator

**Scholarships and Loans**

Financial Aid Officer

**Transcripts, Records**

Office of the Registrar

**Veteran's Affairs**

Veteran's Adviser

**Student Affairs**

Dean of Student Personnel Programs

MARSHALL UNIVERSITY BULLETIN

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# Table of Contents

	Page
Correspondence Directory .....	2
Calendar, 1969-1970 .....	4
West Virginia Board of Education .....	6
Administrative Officers .....	6
Faculty and Staff .....	7

## General Information

History .....	40
Accreditation .....	41
Location .....	42
Divisions .....	42
Buildings .....	42
Development and Alumni Affairs .....	44
Admission .....	46
Academic Information .....	51
Fees and Expenses .....	59
Division of Adult Education .....	67
Student Life .....	69
Scholarships and Loans .....	83

## Teachers College

General Information .....	97
Teachers College Curriculums .....	101

## College of Arts and Sciences

General Information .....	125
Two-Year Curriculum .....	129
Four-Year Curriculums .....	130

## College of Applied Science

General Information .....	151
Curriculums .....	152
Military Science .....	160

## School of Business

General Information .....	166
Two-Year Curriculums .....	167
Four-Year Curriculums .....	169

Courses of Instruction by Departments .....	173
Campus Map .....	256
Index .....	257

# Marshall University Calendar

1969 - 1970

## FIRST SEMESTER

September 9, 1:00 p.m.	Freshmen Report for Orientation
September 10, 8:00 a.m.	Transfer Students Report for Orientation
September 11, 8:00-3:00	Registration for New Students
September 12, 8:00-3:00	Registration for Returning Students
September 12, 6:30-8:30 p.m.	Registration for Evening Students
September 13, 8:30-11:00	Registration Continues
September 15	Classes Begin
September 20, 8:30-11:30 a.m.	Last Day of Late Registration
October 15	WP-WF Period Begins
November 1	Homecoming
November 7	First 8 Weeks Ends
November 11	Mid-Semester Reports Due
November 17-26	Advance Registration for 2nd Semester
November 26, 12:00 noon	Thanksgiving Recess
December 1, 8:00 a.m.	Class Work Resumes
December 20—Close of Classes	Christmas Recess
January 5, 8:00 a.m.	Class Work Resumes
January 19-24	Semester Examinations
January 24	Semester Ends
January 27, 4:00 p.m.	Semester Grades Due in Registrar's Office

## SECOND SEMESTER

January 29	New Students Report for Orientation
January 30, 8:00-3:00	Registration
January 30, 6:30-8:30 p.m.	Registration for Evening Students

January 31, 8:30-11:00 .....	Registration Continues
February 2 .....	Classes Begin
February 7, 8:30-11:30 .....	Last Day of Late Registration
March 2 .....	WP-WF Period Begins
March 25—Close of Classes .....	Easter Vacation
March 27 .....	First 8 Weeks Ends
March 31 .....	Mid-Semester Reports Due
March 31, 8:00 a.m. ....	Class Work Resumes
May 5-9 .....	Advance Registration for Fall
May 10 .....	Mother's Day Sing
May 18, 9:00 a.m. ....	Final Grades for Graduating Seniors Due
May 25-30 .....	Semester Examinations
May 30 .....	Alumni Day
May 31 .....	Commencement
June 2, 4:00 p.m. ....	Semester Grades Due in Registrar's Office

## SUMMER SESSION 1970

### First Term

June 15, 8:00-3:00 .....	Registration
June 16, 8:00 a.m. ....	Class Work Begins
July 4 .....	Independence Day
July 17 .....	First Term Ends
July 21, 4:00 p.m. ....	Grades Due in Registrar's Office

### Second Term

July 20, 8:00-3:00 .....	Registration
July 21, 8:00 a.m. ....	Class Work Begins
August 21 .....	Second Term Ends
August 25, 4:00 p.m. ....	Grades Due in Registrar's Office

## OFFICERS OF ADMINISTRATION

ROLAND H. NELSON, JR., A.B., M.Ed., Ed.D. ....	<i>President</i>
STEWART HAROLD SMITH, B.S., M.A., Ph.D., Litt.D., LL.D., L.H.D., L.H.D.	<i>President Emeritus</i>
DONALD N. DEDMON, B.S., M.A., Ph.D. ....	<i>Executive Vice President</i>
A. MERVIN TYSON, A.B., M.A., Ph.D. . .	<i>Vice President of Academic Affairs</i>
JOSEPH S. SOTO, A.B., B.S., M.A. ....	<i>Vice President of Business</i>
JOSEPH PETERS, B.S., M.B.A. ....	<i>Director of Finance</i>
ROBERT BRUCE HAYES, A.B., Ed.M., Ed.D. ....	<i>Dean, Teachers College</i>
.....	<i>Dean, College of Arts and Sciences</i>
AMBROSE EVERETT McCASKEY, JR., B.S.C.E., M.S.C.E., Ph.D. . . .	<i>Dean</i>
.....	<i>College of Applied Science</i>
JOHN R. WARREN, A.B., M.A., Ph.D. ....	<i>Dean, Graduate School</i>
R. W. MORELL, M.B.A., Ph.B., Ph.D., ....	<i>Dean, School of Business</i>
CONSTANTINE W. CURRIS, A.B., M.A., Ed.D. ....	<i>Dean of Student</i>
.....	<i>Personnel Programs</i>
LILLIAN HELMS BUSKIRK, A.B., M.A. ....	<i>Associate Dean of Student</i>
.....	<i>Personnel Programs</i>
DONALD K. CARSON, B.A., M.A. ....	<i>Associate Dean of Student</i>
.....	<i>Personnel Programs</i>
LUTHER E. BLEDSOE, A.B., M.A. ....	<i>Registrar</i>
PAUL H. COLLINS, A.B., M.A. ....	<i>Director of Admissions</i>
.....	<i>and Adult Education</i>
HAROLD WILLIAM APEL, A.B., M.S. in Library Science ....	<i>Librarian</i>
JAMES A. MARTIN, A.B. ....	<i>Director of Information</i>
.....	<i>and Publications</i>
ROBERT P. ALEXANDER, A.B., M.A. ....	<i>Director of Placement</i>
HARRY M. SANDS, B.B.A. ....	<i>Director of Alumni Affairs</i>
HUGH D. STILLMAN, B.S.E.E., M.S.E.E. ....	<i>Director of Development</i>
.....	<i>(Acting)</i>

# The Faculty

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

- JOAN FISHER ADKINS, *Assistant Professor of English*, 1963  
M.A. 1961, Marshall University; graduate study, University of Minnesota,  
West Virginia University
- RICHARD LOWELL ADKINS, *Assistant Professor of Engineering*, 1966  
M.Sc. 1964, The Ohio State University; graduate study, The Ohio  
State University
- ROMA LYNN ADKINS, *Instructor in Home Economics*, 1968  
M.A. 1968, Marshall University
- RAMCHANDRA G. AKKIHALL, *Assistant Professor of Economics*, 1968  
M.A. 1961, University of Bombay; graduate study, University of  
Tennessee
- FRANCIS KAZIMER ALDRED, *Associate Professor of History*, 1967  
Ph.D. 1967, University of Virginia
- OWEN DAVID AMICK, JR., *Instructor in Art*, 1967  
M.A. 1967, West Virginia University
- SARA ELIZABETH ANDERSON, *Professor of Business Administration*, 1966  
Ed.D. 1964, Indiana University
- HOMER ARHELGER, *Professor of Education*, 1962  
Ed.D. 1962, Indiana University
- GEORGE T. ARNOLD, JR., *Instructor in Journalism*, 1968  
M.A. 1965, Marshall University
- STANLEY WEST ASH, *Associate Professor of Biological Science*, 1956  
M.A. 1954, Marshall University; graduate study, University  
of Pennsylvania
- MARY STEMPLE ASHER, *Assistant Professor of Nursing Education*, 1967  
M.N. 1945, Western Reserve University; graduate study, Marshall  
University
- LOUISE SLAGLE BAILEY, *Assistant Professor of English*, 1961  
M.A., 1953, University of Florida; graduate study, University of  
Tennessee
- PAUL A. BALSHAW, *Assistant Professor of Music*, 1965  
A.M.D. 1963, Eastman School of Music
- HARRY BARBA, *Professor of English and Director of Writing*, 1968  
Ph.D. 1963, University of Iowa
- JAMES D. BARTLETT, *Instructor in English*, 1968  
Williamson Branch College  
M.A. 1968, Marshall University



- MIDORI Y. BATTISTINI, *Assistant Professor of Social Studies*, 1967  
M.A. 1958, Michigan State University; M.A.L.S. 1959, University of Michigan; graduate study, Michigan State University
- THOMAS BAUSERMAN, *Professor of Mathematics*, 1955  
Ph.D. 1961, University of Pittsburgh
- CURTIS FRANKLIN BAXTER, *Professor of English*, 1936  
M.A. 1936, Washington and Jefferson College; graduate study, New York University, Cambridge University, Columbia University
- GRACE BENNETT, *Professor of Home Economics*, 1965  
Ph.D. 1957, Purdue University
- ORIANA R. BERTRAM, *Instructor in Nursing Education*, 1967  
B.S. 1949, University of Chile
- CHARLES VERNON BIAS, *Instructor in History*, 1967  
M.A. 1967, Marshall University
- CHARLES MOORE BILLINGS, *Associate Professor of Speech*, 1965  
M.A. 1954, University of North Carolina
- GIOVANNA LUCIA BISATO, *Assistant Professor of Psychiatric Nursing*, 1968  
M.S.N. 1960, Catholic University of America
- MARTHA DONAHOE BLANKENSHIP, *Assistant Professor of Home Economics*, 1961  
M.A. 1957, Marshall University; graduate study, Pennsylvania State University
- ROBERT L. BLANN, *Assistant Professor of Journalism*, 1968  
M.A. 1965, Indiana University; graduate study, Butler University, Michigan State University
- RICHARD B. BONNETT, *Instructor in Geology*, 1968  
M.S. 1963, University of Maine; graduate study, The Ohio State University
- JOHN SINNOTT BRANDON, *Instructor in Sociology*, 1967  
M.A. 1967, Stanford University
- ROBERT LEE VERN BRITTON, *Professor of Geography*, 1930  
M.S. 1930, University of Chicago; graduate study, University of Chicago, The Ohio State University, Marshall University
- JACK L. BROWN, *Instructor in Speech*, 1968  
M.A. 1968, West Virginia University
- JACK RICHARD BROWN, *Professor of English*, 1948  
Ph.D. 1937, Northwestern University

- MAHLON CARL BROWN, *Professor of Social Studies*, 1955  
D.S.S. 1959, Syracuse University
- ELMER ROSS BROWNING, *Professor of Business Administration*, 1968  
Ed.D. 1942, Colorado State College
- JAMES OTIS BRUMFIELD, *Instructor in Botany*, 1964  
M.S. 1964, Marshall University; graduate study, West Virginia University
- STEPHEN DAVID BUELL, *Professor of Speech and Director of Educational Radio and TV*, 1955  
Ph.D. 1962, The Ohio State University
- CARL M. CALLAWAY, *Instructor in Business Administration*, 1968  
B.B.A. 1961, Marshall University; C.P.A. 1968, West Virginia;  
graduate study, University of South Carolina
- JOHN SOLOMEN CALLEBS, *Assistant Professor of Social Studies*, 1965  
M.A. 1958, West Virginia University; graduate study, University of Pittsburgh
- MARGARET COLINA CAMPBELL, *Associate Professor of Education*, 1956  
M.A. 1956, George Peabody College for Teachers; graduate study, George Peabody College for Teachers, Marshall University
- ROBERT TANEL CANTEES, *Instructor in Mathematics*, 1965  
Williamson Branch College  
M.A. 1961, Marshall University; graduate study, Marshall University
- ARTHUR SIDNER CARPENTER, *Professor of Art*, 1951  
Ed.D. 1958, Pennsylvania State University
- RANDALL PARRISH CARPENTER, JR., *Instructor in Science*, 1968  
Logan Branch College  
M.S. 1968, Marshall University
- EMORY WESLEY CARR, *Instructor in Modern Languages (German)*, 1966  
M.A. 1965, West Virginia University; graduate study, University of North Carolina
- RICHARD RICKSECKER CARROLL, *Instructor in Economics*, 1966  
M.S. 1965, Florida State University; graduate study, University of Colorado
- MANOJ RANJAN CHAKRABARTY, *Associate Professor of Chemistry*, 1963  
Ph.D. 1962, University of Toronto
- ELMA SINES CHAPMAN, *Instructor in Business Administration*, 1956  
M.A. 1956, Marshall University
- SARA SIMMONS CHAPMAN, *Instructor in English*, 1967  
M.A. 1966, Marshall University
- CHI HSIN CHEN, *Assistant Professor of Engineering*, 1967  
Ph.D. 1968, Virginia Polytechnic Institute



- SOO BOCK CHOI, *Associate Professor of Political Science*, 1963  
Ph.D. 1963, University of Maryland
- SAM EDWARD CLAGG, *Professor of Geography*, 1948  
Ed.D. 1955, University of Kentucky
- MARY DAY CLARK, *Instructor in Education*, 1961  
M.A. 1960, Marshall University; graduate study, Marshall University
- ROBERT RAY CLARK, *Associate Professor of Music*, 1967  
M.A. 1959, The Ohio State University; graduate study, University of Michigan
- BERNARD FRED CLEVELAND, *Assistant Professor of Social Studies*, 1964  
M.S. 1962, State University of New York; graduate study, Colorado State College
- ROBERT WINFRED CLICK, *Instructor in English*, 1966  
M.A. 1964, Memphis State University
- ERNEST WALTER COLE, *Associate Professor of Business Administration*, 1955  
M.A. 1953, Marshall University; graduate study, University of Pennsylvania
- PAUL HUNTER COLLINS, *Associate Professor of Education and Director of Admissions and Adult Education*, 1949  
M.A. 1943, West Virginia University; graduate study, Harvard University, University of Virginia
- HITE WILSON COMPTON, *Instructor in Speech*, 1967  
M.A. 1966, West Virginia University
- MARY URSULA CONNELL, *Instructor in Biological Science*, 1968  
M.A. 1966, Marshall University; graduate study, Marshall University, Kent State University
- NICHOLAS C. CONTOPOULOS, *Assistant Professor of Economics*, 1965  
M.A. 1958, Indiana University; graduate study, University of Michigan
- JACK WALLACE COOK, *Assistant Professor of Physical Education*, 1966  
M.A. 1953, Marshall University; graduate study, Marshall University
- SARA JANE COOK, *Instructor in Library Science*, 1968  
M.S.L.S. 1968, University of Kentucky
- WILLIAM GLENN COOK, *Associate Professor of Economics*, 1959  
B.A. 1947, University of Wisconsin; graduate study, University of Wisconsin
- ERIC VANE CORE, *Associate Professor of Education*, 1957  
M.A. 1937, West Virginia University; graduate study, University of Virginia
- MICHAEL IRA CORNFELD, *Instructor in Art*, 1967  
M.F.A. 1967, Carnegie Institute of Technology

- GEORGE BRUCE CORRIE, *Associate Professor of Economics*, 1947  
M.A. 1941, University of North Carolina; graduate study, University of North Carolina
- JACQUELINE COLLIER CORUM, *Assistant Professor of Modern Languages (French)*, 1965  
M.A. 1963, Marshall University; graduate study, University of Kentucky
- JOHN WALKER CREIGHTON, *Associate Professor of Music*, 1945  
M.A. 1942, Northwestern University; graduate study, Saint Louis University, Juilliard School of Music, Ohio University, Northwestern University
- TAYLOR VINSON CREMEANS, *Associate Professor of Education*, 1959  
M.A. 1947, Marshall University; graduate study, Michigan State University, Marshall University
- RONALD LEWIS CROSBIE, *Instructor in Physical Education*, 1967  
M.A. 1961, Eastern Kentucky University; graduate study, Temple University, Indiana University
- JESSIE LEE CROWE, *Instructor in Education*, 1957  
M.A. 1952, Marshall University; graduate study, Marshall University
- EDWIN ALBERT CUBBY, *Professor of Social Studies*, 1949  
Ph.D. 1962, Syracuse University
- PHYLLIS HART CYRUS, *Assistant Professor of Business Administration*, 1960  
J.D. 1968, West Virginia University; graduate study, Marshall University
- WILSON CLYDE CYRUS, JR., *Instructor in Physical Education and Coach of Wrestling*, 1968  
M.S. 1968, Marshall University
- ELIZABETH HINES CZOMPO, *Assistant Professor of Mathematics*, 1958  
M.A. 1939, University of Kentucky; graduate study, University of Kentucky, Purdue University, Marshall University
- NELLIE SMITH DAILEY, *Assistant Professor of Education*, 1946  
M.A. 1943, Colorado State College of Education; graduate study, University of Southern California, Marshall University
- WILLIAM ROGER DAVIDSON, *Associate Professor of Music*, 1955  
M.Mus. 1947, University of Illinois; graduate study, University of Illinois, Columbia University
- FLORENCE ADELINE DAVIS, *Assistant Professor of Education*, 1946  
M.A. 1941, Marshall University; graduate study, The Ohio State University, Marshall University
- DONALD N. DEDMON, *Executive Vice President and Professor of Speech*, 1968  
Ph.D., 1961, University of Iowa

- WILLIAM NEVILLE DENMAN, *Instructor in Speech*, 1965  
M.A. 1965, California State College at Los Angeles; graduate study,  
University of Southern California, Ohio University
- BRADFORD RENE DEVOS, *Assistant Professor of Music*, 1967  
M.Mus. 1963, Boston University; graduate study, Boston University
- ROBERT JAMES DILS, *Associate Professor of Physical Science*, 1964  
M.A. 1960, Marshall University; graduate study, The Ohio State  
University
- ROBERT LEWIS DINGMAN, *Associate Professor of Education*, 1968  
M.Ed. 1961, Wayne State University; graduate study, Wayne State  
University
- CHARLES DIVITA, JR., *Instructor in Education and Research Specialist,  
West Virginia Research Coordinating Unit for Vocational  
Education*, 1967  
B.S. 1964, West Virginia Institute of Technology
- JAMES ROY DOUGLAS, *Instructor in Education*, 1968  
M.A. 1962, Marshall University
- JAMES EDWARD DOUGLASS, *Professor of Chemistry*, 1965  
Ph.D. 1959, University of Texas
- JOANNE C. DRESCHER, *Associate Professor of Music*, 1950  
M.Mus. 1948, Indiana University; graduate study, Florida State  
University, University of Denver
- WARREN LLOYD DUMKE, *Assistant Professor of Physics*, 1967  
Ph.D. 1965, University of Nebraska
- STANLEY BOYD EATON, *Assistant Professor of Engineering*, 1957  
B.S.E.E. 1931, University of Maine; graduate study, University of Maine,  
West Virginia University; P.E.
- RALPH MILTON EDEBURN, *Professor of Zoology*, 1945  
Ph.D. 1938, Cornell University
- DARRELL L. EDWARDS, *Instructor in Business Administration*, 1968  
Logan Branch College  
M.B.A. 1968, Bowling Green University
- MARY BETH DORSEY ELMORE, *Instructor in Speech*, 1964  
M.A. 1963, Marshall University
- ANN SNIDER EMERY, *Instructor in English*, 1965  
M.A. 1962, West Virginia University
- GAYNELL EPLING, *Instructor in Physical Education*, 1968  
M.S. 1968, Marshall University
- ALICE ERTRESVAAG, *Assistant Professor of Art*, 1966  
M.Ed. 1953, University of Minnesota; graduate study,  
University of Minnesota

IRENE CLARK EVANS, *Associate Professor of Business Administration*, 1939  
M.A. 1940, Columbia University; graduate study. University of Chicago,  
University of Kentucky, Marshall University

PETER K. FEI, *Assistant Professor of English*, 1967  
M.A. 1966, University of Michigan; graduate study. University of  
Michigan

WALTER C. FELTY, *Associate Professor of Education and Director  
of Audio-Visual Aids*, 1950  
M.A. 1950, Marshall University; graduate study. Indiana University,  
Pennsylvania State University

WILLIAM FRANKLIN FERGUSON, *Assistant Professor of Education*, 1968  
M.Ed. 1966, Mississippi State University; graduate study,  
Mississippi State University

DOROTHY ALICE FISHER, *Professor of Zoology*, 1946  
Ph.D. 1942, Cornell University; postdoctoral study. Cornell University.  
University of North Carolina, University of Minnesota, University of  
Michigan, Stanford University

FREDERICK ARTHUR FITCH, *Professor of Physical Education*, 1930  
M.A. 1932, New York University; graduate study, New York University,  
Columbia University, Florida State University, Marshall University

JOEL DEAN FOLSOM, *Assistant Professor of Music*, 1968  
M.A. 1961, Adams State University; graduate study, Colorado State  
College

WILLIAM EDWARD FRANCOIS, *Professor of Journalism*, 1959  
Ph.D. 1967, The Ohio State University

W. GENE FRUM, *Assistant Professor of Biological Science*, 1965  
M.S. 1948, West Virginia University; graduate study, University of  
Kansas, Marshall University

DANNY GREYSON FULKS, *Assistant Professor of Education*, 1968  
Ed.D. 1968, University of Tennessee

RUTH COFFMAN GARRETT, *Associate Professor of Speech*, 1953  
Ph.D. 1968, Ohio University

NANCY A. GENOVESE, *Instructor in Modern Languages (Spanish)*, 1968  
M.A. 1967, University of Pittsburgh

ROBERT S. GERKE, *Assistant Professor of English*, 1968  
Ph.D. 1968, University of Notre Dame

NEIL LOUIS GIBBINS, *Professor of Education*, 1963  
Ph.D. 1960, The Ohio State University

DAVID HAYS GIBSON, JR., *Assistant Professor of English*, 1967  
M.A. 1963, University of Arkansas



- MACK HENRY GILLENWATER, *Assistant Professor of Geography*, 1968  
M.A. 1958, Marshall University
- JAMES PITTARD GILLESPIE, *Assistant Professor of Biological Science*, 1961  
M.S. 1955, University of Tennessee; graduate study, Florida State University, University of Michigan, George Peabody College for Teachers, Iowa State University
- CARMEL F. GILLMAN, Staff Sergeant, U. S. Army, *Instructor in Military Science and Military Property Custodian*, 1967
- EDWARD CLAYTON GLASGOW, *Associate Professor of English*, 1959  
M.A. 1942, University of North Carolina; graduate study, West Virginia University, University of North Carolina, Marshall University
- MARY ALICE GOINS, *Associate Professor of Mathematics*, 1946  
M.A. 1933, University of Michigan; graduate study, Purdue University, University of Kentucky, University of Chicago, University of Michigan
- JOHN GOODWIN, *Assistant Professor of Philosophy*, 1968  
M.Th. 1960, Dallas Theological Seminary; graduate study, Temple University
- GREGORY N. GORCYS, Captain, U. S. Army, *Assistant Professor of Military Science*, 1968  
Ph.B. 1962, University of Detroit
- BILL KENNETH GORDON, *Assistant Professor of Education*, 1967  
Ed.D. 1967, University of Kentucky
- REX CAMERON GRAY, *Associate Professor of Education*, 1948  
M.A. 1941, West Virginia University; graduate study, University of Minnesota, University of Virginia, George Washington University
- NORMAN BAYARD GREEN, *Professor of Zoology*, 1938  
Ph.D. 1952, The Ohio State University; ScD. 1967, Davis and Elkins College
- PATRICIA ANN GREEN, *Assistant Professor of Education*, 1953  
M.F.A. 1955, Ohio University; graduate study, University of Colorado, Syracuse University, Oberlin College, Marshall University
- KENNETH HAMILTON GREER, *Instructor in Economics*, 1967  
M.A. 1967, Western Michigan University
- CHARLES FRANCIS GRUBER, *Instructor in Social Studies*, 1967  
M.A. 1967, Ohio University
- SAMUEL TILDEN HABEL, *Professor of Sociology*, 1964  
Ph.D. 1945, The University of Edinburgh; postdoctoral study, University of North Carolina
- ELLEN JARRELL HAGER, *Instructor in Education*, 1967  
M.A. 1967, Marshall University; graduate study, University of Kentucky

OLIVE BLANKENSHIP HAGER, *Instructor in Physical Education*, 1965  
M.A. 1960, Marshall University

ROSCOE HALE, JR., *Assistant Professor of Education*, 1968  
M.A. 1960, Marshall University; graduate study, Marshall University,  
Ohio University

RALPH HERBERT HALL, *Instructor in Mathematics Education*, 1965  
M.A. 1952, Marshall University; graduate study, Marshall University

NANCY WELCH HANGER, *Assistant Professor of Education*, 1968  
M.A. 1960, Marshall University; graduate study, West Virginia  
University, Marshall University

LOREN ELLIS HANNA, *Associate Professor of Physics*, 1962  
Ed.B. 1930, Southern Illinois University; graduate study, University of  
Chicago, Washington University, University of Michigan, University of  
Colorado

EDWARD STEPHENSON HANRAHAN, *Associate Professor of  
Chemistry*, 1963  
Ph.D. 1959, West Virginia University

GEORGE JAMES HARBOLD, *Professor of Speech*, 1947  
Ph.D. 1955, The Ohio State University

DENNIS HUNTER HARDMAN, *Professor of Mathematics*, 1946  
Ph.D. 1963, University of Pittsburgh

CLARA HAEBERLE HARRISON, *Assistant Professor of Business  
Administration*, 1938  
M.A. 1933, The Ohio State University; graduate study, The Ohio State  
University, New York University, West Virginia University, Marshall  
University

PAULINE MARIE HARVEY, *Assistant Professor of Education*, 1968  
M.A. 1965, Marshall University; graduate study, University of Virginia,  
West Virginia University

STEVEN HUNTER HATFIELD, *Assistant Professor of Mathematics*, 1963  
M.S. 1963, West Virginia University; graduate study, West Virginia  
University, Marshall University

ANTHONY F. HAUSNER, *Instructor in Psychology*, 1968  
M.A. 1968, Duke University

BETTY JO CRAIG HAWLEY, *Assistant Professor of Education*, 1964  
M.A. 1959, Marshall University; graduate study, The Ohio State  
University

ROBERT BRUCE HAYES, *Dean, Teachers College and Professor of  
Education*, 1965  
Ed.D. 1960, University of Kansas

HERSCHEL HEATH, *Professor of History*, 1947  
Ph.D. 1933, Clark University

- THEODORE CHARLES HEGER, *Instructor in Music*, 1965  
M.A. 1965, University of Iowa
- FREDERICK RICHARD HENDRICKS, *Assistant Professor of Art*, 1965  
M.F.A. 1965, Instituto Allende, University of Guanajuato
- CLARKE FREAS HESS, *Professor of Education*, 1951  
Ed.D. 1958, University of Pennsylvania
- EUGENE QUINTER HOAK, *Professor of Speech*, 1960  
Ph.D. 1954, The Ohio State University
- JOHN HOLLAND HOBACK, *Professor of Chemistry*, 1945  
Ph.D. 1947, West Virginia University
- ELIZABETH ANN HOBBS, *Instructor in English*, 1967  
M.A. 1967, West Virginia University
- DOUGLAS T. HOLDEN, *Associate Professor of Philosophy*, 1968  
Ph.D. 1966, St. Andrews University
- BEN WALTER HOPE, *Professor of Speech*, 1947  
Ph.D. 1960, The Ohio State University
- LOUISE PRICE HOY, *Professor of Classical Languages*, 1963  
Ph.D. 1952, Bryn Mawr College
- REBECCA ANN HUFFMAN, *Instructor in Biological Science*, 1968  
M.S. 1966, Marshall University; graduate study, West Virginia University
- ROGER LEE HUNGATE, *Instructor in English*, 1965  
M.A. 1965, Indiana State University
- HELEN SCOTT HUNTER, *Assistant Professor of Education*, 1957  
M.A. 1956, Marshall University; graduate study, University of Michigan, Marshall University
- LEO VICTOR IMPERI, *Associate Professor of Music*, 1952  
M.A. 1951, Columbia University; graduate study, Columbia University, University of Denver
- JAMES EDWARD IRVIN, *Professor of Education*, 1959  
Ph.D. 1958, The Ohio State University
- RAYMOND ELLSWORTH JANSSEN, *Professor of Geology*, 1942  
Ph.D. 1939, University of Chicago
- JANICE JARRELL, *Instructor in Biological Science*, 1968  
M.S. 1968, Marshall University
- PEGGY PAULINE JARRETT, *Assistant Professor of Education*, 1959  
M.A. 1954, West Virginia University; graduate study, West Virginia University, Marshall University

- CHARLES W. JARVIS, Major, U. S. Army, *Assistant Professor of Military Science*, 1966  
B.S. 1960, Eastern Kentucky State University
- OFFA LOU HARRIS JENKINS, *Associate Professor of Education*, 1965  
Ed.D. 1967, University of Virginia; postdoctoral study, Purdue University
- LOUIS BROWN JENNINGS, *Professor of Bible and Religion*, 1948  
Ph.D. 1964, University of Chicago
- RICHARD THOMAS JENNINGS, *Instructor in English*, 1966  
M.A. 1968, University of Kentucky
- JACK JERVIS, JR., *Assistant Professor of Education*, 1964  
M.A. 1958, Marshall University
- WILLARD LEWIS JINKS, *Assistant Professor of Biological Science*, 1967  
Ph.D. 1968, University of Kentucky
- DOROTHY RENSCH JOHNSON, *Assistant Professor of Speech*, 1965  
M.A. 1947, University of Pennsylvania; M.A. 1948, Northwestern University; graduate study, Marshall University, Ohio University
- ELLIS T. JOHNSON, *Instructor in Physical Education and Head Basketball Coach*, 1963  
M.A. 1937, University of Kentucky; graduate study, University of Kentucky
- RANDOLPH SCOTT JOHNSON, *Assistant Professor of Speech*, 1961  
M.S.Ed. 1961, Northern Illinois University
- LAVELLE THOMPSON JONES, *Associate Professor of Music*, 1947  
M.A. 1942, George Peabody College for Teachers; graduate study, George Peabody College for Teachers, University of Denver, Cincinnati Conservatory of Music, Temple University, University of Maine
- BERFITT JORDAN, *Associate Professor of Mathematics*, 1960  
M.A. 1947, Marshall University; graduate study, Cornell University, West Virginia University, University of Colorado, Oberlin College
- MICHAEL B. JOSEPHS, *Professor of Physical Education*, 1953  
Ph.D. 1950, University of Pittsburgh
- E. BOWIE KAHLE, *Instructor in Biological Science*, 1968  
M.S. 1966, West Virginia University; graduate study, West Virginia University
- CAROLYN MAE KARR, *Assistant Professor of Social Studies*, 1966  
M.A. 1963, Marshall University; graduate study, University of Kentucky
- MICHAEL EDWARD KEARNEY, *Instructor in Sociology*, 1967  
M.A. 1965, Marshall University
- WILLIAM GALLATIN KEARNS, *Associate Professor of Speech*, 1956  
M.A. 1955, Ohio University; graduate study, Ohio University



- JAMES RICHARD KELLER, *Instructor in Mathematics*, 1966  
M.S.T. 1967, University of Arizona; graduate study, University of Illinois
- JEWELL DINGESS KELLY, *Instructor in Education*, 1967  
M.A. 1965, Marshall University
- JUNE QUILLIN KILGORE, *Assistant Professor of Art*, 1959  
M.A. 1962, Marshall University; graduate study, George Peabody College for Teachers, Ohio University, Pratt Institute
- CHARLES LAWRENCE KINGSBURY, *Professor of Music*, 1950  
Ed.D. 1945, Indiana University
- LOUISE THORP KIRBY, *Assistant Professor of English*, 1959  
M.A. 1959, Marshall University; graduate study, University of Virginia, New College-Oxford University, University of Utah
- GRANT JAMES KLAUSMAN, *Assistant Professor of Music*, 1967  
Ph.D. 1967, University of Colorado
- FREDERICK A. KLEIN, *Instructor in Political Science*, 1968  
M.A. 1968, University of North Carolina
- DAVID C. KNOUSE, *Instructor in Modern Languages (Spanish)*, 1967  
M.A. 1967, West Virginia University
- CHANG LYOUNG KONG, *Assistant Professor of Chemistry*, 1967  
Ph.D. 1967, St. Louis University
- ALFRED PETER LANEGGER, *Associate Professor of Music*, 1947  
M.M. 1947, Syracuse University; diploma, State Academy of Music, Munich
- JOHN W. LARSON, *Assistant Professor of Chemistry*, 1968  
Ph.D. 1968, Carnegie-Mellon University
- DONNA LOU LAWSON, *Instructor in Physical Education*, 1967  
M.S. 1966, Marshall University
- JOHN ANTHONY LENT, *Assistant Professor of Journalism*, 1967  
M.S.J. 1960, Ohio University; graduate study, Syracuse University, University of Oslo, University of Toronto, Sophia University, Guadalajara Summer School
- ARTHUR RAY LEPLEY, *Professor of Chemistry*, 1965  
Ph.D. 1958, University of Chicago
- SHARON LESLIE, *Clinical Instructor in Medical Technology*, 1968  
B.S. 1962, Marshall University
- JOSEPH MELVILLE LICHTENSTEIN, *Associate Professor of Education*, 1946  
M.A. 1940, Fordham University; graduate study, Columbia University, Rutgers University, University of Cincinnati, New York University
- JULIUS LIEBERMAN, *Professor of Modern Languages (German)*, 1946  
Ph.D. 1943, University of Cincinnati

- IRVING LILLIEN, *Associate Professor of Chemistry*, 1967  
Ph.D. 1960, Brooklyn Polytechnic Institute
- DAVID ALAN LINDSLEY, *Instructor in Business Administration*, 1966  
M.B.A. 1966, University of Michigan
- JOHN G. F. LITTLER, *Assistant Professor of Chemistry*, 1968  
Ph.D. 1965, Nottingham University
- KENNETH KARL LOEMKER, *Professor of Psychology*, 1930  
Ph.D. 1941, University of Chicago
- EDWIN CURTIS McCARNES, *Instructor in Speech*, 1967  
M.A. 1965, West Virginia University
- AMBROSE EVERETT McCASKEY, *Dean, College of Applied Science and Professor of Engineering*, 1936  
Ph.D. 1955, University of Wisconsin; P.E.
- LARRY KENT McKENZIE, *Instructor in Physical Education and Freshman Basketball Coach*, 1967  
M.S. 1967, Marshall University
- JOHN JOSEPH McKERNAN, *Instructor in English*, 1967  
M.A. 1967, University of Arkansas; graduate study, University of Arkansas
- J. TIMOTHY McMAHON, *Instructor in Business Administration*, 1966  
M.B.A. 1966, Bowling Green State University; graduate study, University of Colorado
- KYLE GORDON McMULLEN, *Assistant Professor of Business Administration*, 1966  
B.S. 1952, Marshall University; C.P.A. 1960; graduate study, University of Kentucky, West Virginia University
- ROBERT FRANKLIN MADDUX, *Assistant Professor of History*, 1966  
M.A. 1966, Marshall University; graduate study, University of Kentucky
- THOMAS JOSEPH MANAKKIL, *Assistant Professor of Physics*, 1967  
Ph.D. 1967, New Mexico State University
- MARY SHEP MANN, *Instructor in Music*, 1968  
Marshall University, Juilliard School of Music, American Conservatory, Fontainebleau, France
- MARY ELEANOR MARSHALL, *Instructor in Physical Education*, 1966  
M.S. 1964, University of Tennessee; graduate study, University of Tennessee
- DONALD CLAYTON MARTIN, *Professor of Physics*, 1943  
Ph.D. 1936, Cornell University; postdoctoral study, Northwestern University, University of New Mexico

- JOHN LEWIS MARTIN, *Professor of Modern Languages (Spanish)*, 1935  
Ph.D. 1940, University of Pittsburgh
- SHIRLEY FOSTER MATHEWS, *Instructor in Education*, 1945  
M.A. 1944, University of Wisconsin; graduate study, University of Southern California, University of Wisconsin, Marshall University
- EDSON R. MATTICE, Colonel, U. S. Army, *Professor of Military Science*, 1969  
B.S. 1937, University of New Hampshire
- STEVEN A. MEADOWS, *Instructor in Education*, 1967  
M.A. 1965, Marshall University; graduate study, George Washington University
- JOHN DAVID MEEK, *Instructor in English*, 1967  
M.A. 1962, Western Michigan University; graduate study, Western Michigan University, Marshall University
- GEORGE MINSKER MENDENHALL, *Assistant Professor of Engineering, Director of the Computer Center*, 1960  
B.E.S. 1960, Marshall University; graduate study, West Virginia University, Louisiana Polytechnic Institute
- EDITH WARFE MILAM, *Assistant Professor of English*, 1958  
M.A. 1955, Marshall University; graduate study, George Peabody College for Teachers, Morehead State University, Marshall University
- MAUREEN B. MILICIA, *Instructor in Speech*, 1968  
M.A. 1967, Marshall University; graduate study, Marshall University
- CARL BARTH MILLER, *Associate Professor of Business Administration*, 1946  
M.A. 1942, Northwestern University; graduate study, University of Kentucky, University of Colorado, Boston University
- EVA LOUISE MILLER, *Instructor in Business Administration*, 1946  
M.A. 1942, Columbia University
- J. MELVIN MILLER, *Assistant Professor of Political Science*, 1967  
Ph.D. 1967, University of Rajasthan
- HOWARD LEONARD MILLS, *Professor of Botany*, 1951  
Ph.D. 1951, State University of Iowa
- MARVIN DEMOND MILLS, *Associate Professor of Safety Education*, 1968  
M.A. 1949, New York University; graduate study, New York University, University of Kentucky, Michigan State University
- MARVIN O'NEILL MITCHELL, *Professor of English*, 1952  
Ph.D. 1953, University of North Carolina
- PHILIP EUGENE MODLIN, *Assistant Professor of Biological Science*, 1957  
M.A. 1957, Marshall University; graduate study, West Virginia University

CHARLES HILL MOFFAT, *Professor of History*, 1946

Ph.D. 1946, Vanderbilt University

PATRICK HENRY MORGAN, *Assistant Professor of Engineering*, 1962

M.A. 1965, Marshall University

WOODROW WILSON MORRIS, *Professor of Education*, 1950

Ph.D. 1954, The Ohio State University

ROBERT FIELDING MORRISS, *Assistant Professor of Education*, 1967

M.S. 1959, University of Virginia; graduate study, The Ohio State University

HAROLD TIMOTHY MURPHY, *Associate Professor of Modern Languages (Spanish)*, 1960

M.A. 1955, Vanderbilt University; graduate study, University of Guanajuato, Western Reserve University

REVA BELLE NEELY, *Associate Professor of Home Economics*, 1946

M.Ed. 1946, Colorado State University; graduate study, The Ohio State University, Michigan State University

ALMA NEASE NOBLE, *Associate Professor of Modern Languages (French)*, 1941

Ph.D. 1938, The Ohio State University

REGINALD DUSTON NOBLE, *Assistant Professor of Biological Science*, 1962

M.A. 1960, Marshall University; graduate study, The Ohio State University

ELAINE ADAMS NOVAK, *Professor of Speech*, 1956

Ph.D. 1963, The Ohio State University

LAWRENCE HOWARD NUZUM, *Professor of Education*, 1947

Ed.D. 1959, University of Tennessee

MARJORIE ANN OAKLEY, *Assistant Professor of Home Economics*, 1968

M.A. 1949, West Virginia University; graduate study, West Virginia University, Marshall University, University of Kentucky, Indiana State University

THOMAS SAMUEL O'CONNELL, *Associate Professor of Music*, 1948

M.M. 1947, University of Michigan

ROBERT D. OLSON, *Professor of Speech*, 1968

Ph.D. 1965, Northwestern University

THOMAS WILLIAM OLSON, *Assistant Professor of Engineering*, 1955

B.E.S. 1955, Marshall University

SHIRLEY W. OVERHOLT, *Instructor in Business Administration*, 1968

M.A. 1966, Marshall University



- CLAYTON ROY PAGE, *Professor of Speech*, 1946  
M.A. 1939, Pennsylvania State University; M.A. 1940, Baylor University;  
graduate study, University of Southern California, State University of  
Iowa
- VIRGINIA NORVAL PARRISH, *Associate Professor of Modern Languages*  
(French) 1947  
M.A. 1940, University of Kentucky; graduate study, University of  
Kentucky
- SARAH LEE PATRAM, *Associate Professor of Nursing Education*, 1964  
M.S.N. 1959, Catholic University of America
- BLAGOE PAUL, Master Sergeant, U. S. Army. *Instructor in Military*  
*Science*, 1968
- WILLIAM HOWARD PAYNTER, *Assistant Professor of Social Studies*, 1968  
M.A. 1963, The Ohio State University
- CHARLES VAN BUREN PEELE, *Instructor in Mathematics*, 1967  
M.A.M. 1963, North Carolina State College; graduate study, University  
of Cincinnati
- RICHARD PAUL PELTONEN, *Assistant Professor of Education*, 1968  
M.S. 1961, Northern Illinois University; graduate study, West Virginia  
University
- WALTER H. PERL, *Professor of Modern Languages (German)*, 1948  
Ph.D. 1936, University of Zurich
- SIMON DANIEL PERRY, *Professor of Political Science*, 1962  
Ph.D. 1961, Michigan State University
- THELMA C. PETT, *Instructor in Education*, 1968  
M.Ed. 1968, Miami University
- BERNICE MAXINE PHILLIPS, *Associate Professor of English*, 1964  
M.A. 1957, University of Alabama; graduate study, University of North  
Carolina, University of Kentucky
- PHOTIOS PHOTIADES, *Instructor in Mathematics*, 1968  
M.S. 1968, Ohio University
- ETHEL DULANEY PILTZ, *Assistant Professor of Business*  
*Administration*, 1960  
M.Ed. 1949, University of Pittsburgh; graduate study, Ohio University,  
Marshall University
- WILLIAM PAGE PITT, *Professor of Journalism*, 1926  
M.S.J. 1930, Columbia University
- PHILIP McMILLAN PITTMAN, *Assistant Professor of English*, 1968  
Ph.D. 1967, Vanderbilt University
- NORMA L. PLASTERR, *Instructor in English*, 1967  
Logan Branch College  
M.A. 1965, Marshall University

- JOHN CULPEPPER PLOTT, *Assistant Professor of Philosophy*, 1965  
Ph.D. 1956, Banaras Hindu University
- EDWARD LEWIS PLYMALE, *Professor of Botany*, 1946  
Ph.D. 1942, State University of Iowa
- LYLE FREDERICK PLYMALE, *Assistant Professor of Physical Science*, 1965  
M.A. 1948, Marshall University; graduate study, University of North Carolina, Marshall University
- SALLIE HAMER PLYMALE, *Instructor in Education*, 1968  
M.A. 1968, Marshall University
- KENNETH LLOYD POFF, *Assistant Professor of Biological Science*, 1967  
Ph.D. 1968, West Virginia University
- EDWARD JAMES PRELAZ, *Instructor in Physical Education and Athletic Trainer*, 1954  
M.A. 1956, West Virginia University
- JUDY FRANCES PULLEN, *Instructor in English*, 1965  
M.A. 1965, Marshall University
- MARILYN RUTH PUTZ, *Associate Professor of English*, 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
- BERNARD QUEEN, *Associate Professor of Education*, 1963  
Ph.D. 1967, The Ohio State University
- HARRY A. RACZOK, *Instructor in Geology*, 1968  
M.S. 1966, Marshall University; graduate study, University of Maryland
- ALLEN OTIS RANSON, *Professor of Speech*, 1931  
M.A. 1935, University of Wisconsin
- SUSAN BETH RAYNOR, *Instructor in Speech*, 1967  
M.F.A. 1967, University of Georgia
- CONSTANCE LIGNIAN REES, *Instructor in Education*, 1967  
M.A. 1967, Marshall University
- WALTER EDWIN REGULA, *Associate Professor of Mathematics Education*, 1962  
Ph.D. 1965, The Ohio State University
- FRANK STEPHEN RIDDEL, *Instructor in Social Studies*, 1968  
M.A. 1965, Marshall University
- ADA LOUISE RIFE, *Instructor in Nursing Education*, 1968  
A.B. 1968, Marshall University
- CHARLES CASS RITCHIE, JR., *Associate Professor of Education*, 1959  
Ed.D. 1963, West Virginia University

- PRICE CLAYTON RIVERS, *Assistant Professor of Psychology*, 1967  
Ph.D. 1967, Southern Illinois University
- JOSEPH LINTON ROBERTS, *Assistant Professor of Chemistry*, 1966  
Ph.D. 1964, University of Cincinnati
- KATHLEEN ROBERTSON, *Associate Professor of Speech*, 1946  
M.A. 1936, Northwestern University; graduate study, Northwestern University
- RICHARD H. ROSSWURM, *Instructor in Political Science*, 1968  
M.A. 1964, Catholic University of America; graduate study, University of Maryland
- STEPHEN DEVON ROWE, *Instructor in English*, 1967  
M.A. 1967, University of Arkansas
- ROBERT ELLIS ROWSEY, *Instructor in Biological Science*, 1966  
M.S. 1965, Marshall University
- MARTHA BOHART RUMMELL, *Assistant Professor of Education*, 1938  
M.Ed. 1938, University of Cincinnati; graduate study, University of Minnesota
- CHARLES SHELBY RUNYAN, *Professor of Education*, 1953  
Ed.D. 1953, University of Missouri
- JAMES WOODROW RUTHERFORD, *Assistant Professor of Physical Science*, 1960  
M.S. 1949, West Virginia University; graduate study, Marshall University, West Virginia Wesleyan
- JASPER EVANS SADLER, *Clinical Professor of Medical Technology*, 1956  
M.D. 1950, University of Cincinnati
- JOHN HARVEY SAUNDERS, *Assistant Professor of History*, 1968  
Ph.D. 1966, University of Georgia
- ROBERT CHARLES SAUNDERS, *Instructor in Physical Education and Swimming Coach*, 1967  
M.A. 1963, The Ohio State University; graduate study, University of Maryland
- ROBERT BARTLIT SAVAGE, *Instructor in English*, 1966  
M.A. 1966, University of Iowa
- WALTER SAWANIEWSKI, *Instructor in English*, 1963  
M.A. 1963, Marshall University
- WESLEY LEE SHANHOLTZER, *Instructor in Physics*, 1966  
Ph.D. 1968, West Virginia University
- CHANDRA BHAN SHARMA, *Assistant Professor of Chemistry*, 1968  
Ph.D. 1965, Texas A. & M. University

JOHN FRANCIS SHAW, *Instructor in Physical Education and Track Coach*, 1968

M.A. 1968, Western Michigan University

JOHN P. SHEILS, *Clinical Associate Professor of Medical Technology*, 1965

M.D. 1960, Medical College of Virginia

JANE BOEDEKER SHEPHERD, *Professor of Music*, 1958

M.M. 1942, Cincinnati Conservatory of Music; graduate study, Juilliard School of Music.

JON PHILLIP SHOEMAKER, *Assistant Professor of Zoology*, 1964

Ph.D. 1964, Auburn University

CATHERINE SHREWSBURY, *Instructor in Social Studies*, 1964

Logan Branch College

M.A. 1960, Marshall University; graduate study, West Virginia University

O. NORMAN SIMPKINS, *Professor of Sociology*, 1948

Ph.D. 1953, University of North Carolina

WOOD CARLTON SISARCICK, *Assistant Professor of Mathematics*, 1965

M.A. 1965, West Virginia University

HERROL JAMES SKIDMORE, *Professor of Engineering*, 1962

Ph.D. 1948, University of Iowa; P.E.

HOWARD ALEXANDER SLAATTE, *Professor of Philosophy*, 1965

Ph.D. 1956, Drew University

KENNETH WILLIAM SMART, *Assistant Professor of Business Administration*, 1965

B.B.A. 1959, Marshall University; C.P.A. 1967, West Virginia

ALLEN CANDLER SMITH, JR., *Assistant Professor of Engineering*, 1968

M.S.M.E. 1965, Virginia Polytechnic Institute

BIRNA R. SMITH, *Instructor in Speech*, 1968

M.A. 1968, Ohio University

GLENN EDWARD SMITH, *Assistant Professor of Education and Director of Research in Vocational Education*, 1967

M.S. 1954, West Virginia University; graduate study, Marshall University

JAMES LARRY SMITH, *Instructor in Geography*, 1967

M.A. 1965, Marshall University; graduate study, McGill University, University of Tennessee

THELMA THOMAS SMITH, *Assistant Professor of Education*, 1950

M.A. 1950, Marshall University; graduate study, Marshall University

HARRY EDWARD SOWARDS, *Assistant Professor of Education*, 1966

M.A. 1961, Marshall University; graduate study, Marshall University, Colorado State College



WILLIAM BARNEY STACY, *Instructor in Music*, 1968

M.A. 1968, University of North Carolina

HARVEY NELSON STERNS, *Associate Professor of Education*, 1969

Ph.D. 1968, University of Michigan

PAUL DEKKER STEWART, *Acting Dean of Graduate School and Professor of Political Science*, 1948

Ph.D. 1948, Duke University

BARBARA BROWNING STICKMAN, *Instructor in English*, 1965

M.A. 1965, Marshall University; graduate study, Marshall University

SAMUEL TURLEY STINSON, *Associate Professor of Engineering*, 1940

M.S.E. 1950, University of Michigan; graduate study, Virginia Polytechnic Institute; P.E.

DAVID EDWARD STOOKE, *Associate Professor of English*, 1967

M.A. 1962, George Peabody College for Teachers; graduate study, George Peabody College for Teachers, University of Missouri

ADELLA ELIZABETH STROUSS, *Associate Professor of Home Economics*, 1943

M.S. 1941, Cornell University; graduate study, Iowa State College, The Ohio State University, University of Tennessee, Cornell University

ELLA DAWN STULL, *Instructor in Physical Education*, 1968

M.S. 1968, West Virginia University

NANCY KATHERINE STUMP, *Instructor in Modern Languages (French)*, 1968

M.A. 1968, The Ohio State University

PHIL EDWARD SUITER, *Assistant Professor of Education and Principal of Laboratory School*, 1966

M.A. 1959, Marshall University; graduate study, Miami University, The Ohio State University

WILLIAM P. SULLIVAN, *Professor of English*, 1968

Ph.D. 1961, Columbia University

MARGARET HASSNER SWANN, *Assistant Professor of Education*, 1960

M.A. 1959, Marshall University; graduate study, Marshall University

JOHN JOSEPH SWORD, *Instructor in Education and Coach for Laboratory School*, 1965

M.A. 1966, Marshall University

JAMES SYLVIS, *Instructor in Physical Education*, 1967

M.Ed. 1967, University of Pittsburgh

JOHN WILLIAM TEEL, *Assistant Professor of English*, 1967

M.A. 1962, Marshall University; graduate study, Kent State University

- ANNA VIRGINIA LOCKE THEIS, *Associate Professor of Library Science*, 1953  
M.A. 1948, Western Reserve University; M.S. in Library Science, 1955, Western Reserve University
- JAMES RUSSELL THOMPSON, *Instructor in Education*, 1964  
M.A. 1966, Marshall University; graduate study, Marshall University
- LAYTON OSCAR THOMPSON, *Associate Professor of Mathematics*, 1955  
M.S. 1955, West Virginia University
- ERIC PAUL THORN, *Associate Professor of English*, 1956  
M.A. 1956, Brooklyn College; graduate study, New York University
- WARREN PARKER TILLER, *Instructor in Social Studies*, 1968  
Williamson Branch College  
M.A.Ed. 1968, Union College
- TAYLOR EDWARD TURNER, JR., *Associate Professor of Education and Director of the Reading Center*, 1968  
Ed.D. 1967, University of Virginia
- A. MERVIN TYSON, *Vice President of Academic Affairs and Professor of English*, 1959  
Ph.D. 1952, University of Pennsylvania
- CAROL THOMPSON VALENTINE, *Instructor in English*, 1965  
M.A. 1963, Marshall University
- MALCOLM H. VAN DYKE, II, Staff Sergeant, U. S. Army, *Instructor in Military Science*, 1968
- MARGARET DAVIS VASS, *Assistant Professor of Education*, 1958  
M.A. 1961, Marshall University; graduate study, Marshall University
- WILLIAM R. VERNON, JR., Sergeant Major, U. S. Army, *Instructor in Military Science*, 1968
- CAROLE JEAN ALLEN VICKERS, *Assistant Professor of Home Economics*, 1966  
M.A. 1961, Marshall University; graduate study, Columbia University, The Ohio State University
- BEULAH BAKER VIRGALLITO, *Assistant Professor of English*, 1960  
M.A. 1960, Marshall University; graduate study, The Ohio State University, Marshall University
- DIANA C. WALDRON, *Instructor in English*, 1968  
M.A. 1968, University of Virginia
- WILLIAM ANDREW WALLACE, *Associate Professor of Education*, 1967  
Ed.D. 1966, Wayne State University
- TONG-ENG WANG, *Assistant Professor of Business Administration*, 1969  
Ph.D. 1966, Iowa State University

- BOBBY GENE WARD, *Assistant Professor of Education*, 1967  
M.S.Ed. 1966, Indiana University
- GEORGE WARD II, *Professor of Psychology*, 1962  
Ph.D. 1961, The Ohio State University
- HAROLD EUGENE WARD, *Professor of Biological Science*, 1950  
Ph.D. 1964, The Ohio State University
- JOHN RUSH WARREN, *Dean of the Graduate School and Professor of Botany*, 1964  
Ph.D. 1950, The Ohio State University
- HAROLD W. WATKINS, *Instructor in Science*, 1966  
Logan Branch College  
M.S. 1963, Marshall University
- WARREN STEWART WAY, *Instructor in Physical Education and Assistant Basketball Coach*, 1966  
M.S. 1943, West Virginia University
- CHARLES DARNALL WEBB, *Instructor in Business Administration*, 1967  
B.B.A. 1964, Marshall University; C.P.A. 1966, West Virginia
- JANE FLAHERTY WELLS, *Instructor in English*, 1966  
M.A. 1966, Marshall University
- SIEGFRIED WERTHAMMER, *Clinical Professor of Medical Technology*, 1956  
M.D. 1937, University of Vienna
- JOHN H. WHEELER, *Instructor in Speech*, 1968  
M.A. 1968, Marshall University; graduate study, Ohio University, Marshall University
- HAROLD LEE WILLEY, *Professor of Education*, 1946  
Ed.D. 1958, University of Tennessee
- T. D. DUNCAN WILLIAMS, *Associate Professor of English and Director of Honors Program*, 1966  
M.A. 1956, Christ Church College, Oxford University
- LAURA LEE WILSON, *Instructor in Nursing Education*, 1967  
B.S. 1953, University of Pittsburgh
- ELIZABETH BAKER WOLF, *Professor of Psychology*, 1960  
Ph.D. 1946, Western Reserve University
- ROBERT DELL WOLFF, *Professor of Music*, 1963  
Ed.D. 1961, Columbia University
- CALVIN S. WOOD, JR., *Captain, U. S. Army. Assistant Professor of Military Science*, 1968  
B.S. 1962, Northwestern University

- WARREN W. WOODEN, *Assistant Professor of English*, 1968  
M.A. 1966, University of Mississippi; graduate study, Vanderbilt University
- BERNICE FRANCES WRIGHT, *Associate Professor of Mathematics*, 1946  
M.A. 1929, University of Michigan; graduate study, University of Washington, Marshall University
- KATHRYN WILLIAMS WRIGHT, *Instructor in Education*, 1967  
M.A. 1967, Marshall University
- SAMUEL C. ZERBE, *Instructor in Political Science*, 1968  
M.A. 1967, Marshall University

### TEACHING ASSISTANTS

- PEGGY BROWNING CAMPBELL, *Assistant Instructor in Physical Education*, 1968  
A.B. 1968, Marshall University
- DOUGLAS LEON DILL, *Assistant Instructor in Journalism*, 1966  
B.S. 1960, Brigham Young University; graduate study, Marshall University
- JOHN ALEXANDER FRASER, *Assistant Instructor in Mathematics*, 1965  
B.S. 1965, Marshall University; graduate study, West Virginia University
- SARA L. HENRY, *Assistant Instructor in Modern Languages*, 1968  
A.B. 1953, Queens College
- COLLEEN LUZADER HOLLIDAY, *Assistant Instructor in Nursing Education*, 1967  
A.S. 1963, Marshall University; graduate study, Marshall University
- WESLEY DAVID MAXWELL, *Assistant Instructor in Education*, 1968  
B.E.S. 1958, Marshall University; graduate study, Southern Illinois University, Marshall University

### RETIRED FACULTY

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

- EDITH WILSON AMICK, *Instructor in Education* ..... 1913-1955
- J. FRANK BARTLETT, *Professor of Chemistry and Dean of  
the College of Arts and Sciences* ..... 1932-1967
- CHARLOTTE ELIZABETH BERRYMAN, *Professor of  
Physical Education* ..... 1927-1966



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DOROTHY BERRY BRAGONIER, <i>Associate Professor of Mathematics</i> .....	1927-1958
ANNIE PERKINS CUBBEDGE, <i>Instructor in Education</i> .....	1923-1944
HOLLIE CLAYTON DARLINGTON, <i>Professor of Science</i> .....	1930-1957
LESLIE MARTZ DAVIS, <i>Professor of Geography</i> .....	1938-1966
ANNA LAURA DeNOON, <i>Professor of Mathematics</i> .....	1909-1947
LYELL VERNON DOUTHAT, <i>Associate Professor of Education</i> .....	1926-1967
RUBY CALVERT FOOSE, <i>Associate Professor of Home Economics</i> .....	1946-1966
JUAN C. FORS, <i>Professor of Spanish</i> .....	1931-1966
MARGARET VIRGINIA FOULK, <i>Professor of Education</i> ....	1929-1950
CLEO MARGARET GRAY, <i>Associate Professor of Home Economics</i> .....	1947-1962
DAVID FLEM GROVES, <i>Assistant Professor of Engineering</i> ...	1958-1969
ALBERT ROBERTS HALLEY, <i>Professor of English</i> .....	1926-1946
MARGARET THELMA HAMPEL, <i>Professor of Education</i> ....	1953-1966
CHARLES PRICE HARPER, <i>Professor of Political Science</i> ....	1946-1967
HELEN BRANDEBURY HARVEY, <i>Associate Professor of English</i> .....	1942-1959
HAROLD M. HAYWARD, <i>Professor of Sociology</i> .....	1938-1962
JOSEPH S. JABLONSKI, <i>Professor of Art</i> .....	1929-1966
ERNESTINE TABOR JONES, <i>Assistant Professor of English</i> ..	1948-1961
RUFUS L. LAND, <i>Associate Professor of Economics</i> .....	1946-1965
ROBERT JOSEPH LARGENT, <i>Professor of History and Dean of the College of Arts and Sciences</i> .....	1903-1942
VIRGINIA ELIZABETH LEE, <i>Associate Professor of Journalism</i> .	1941-1963
LOUISE McDONOUGH, <i>Professor of Physical Education</i> .....	1929-1969
T. CRAIG McKEE, <i>University Physician</i> .....	1961-1967
EUGENIA ROE McMULLEN, <i>Associate Professor of Music</i> ....	1945-1968
DORA MAY MITCHELL, <i>Assistant Professor of Education</i> ...	1951-1967

PAUL N. MUSGRAVE, <i>Professor of Education</i> .....	1938-1962
ROSA V. OLIVER, <i>Librarian</i> .....	1925-1955
JOSEPH DONALD POLLITT, <i>Associate Professor of English</i> ...	1936-1963
J. T. RICHARDSON, <i>Professor of Sociology</i> .....	1949-1969
RUTH ROBINSON, <i>Professor of Physical Education</i> .....	1932-1962
RUSSELL IRWIN ROUDEBUSH, <i>Professor of Education</i> ....	1921-1953
MYRTLE MacDANNALD ROUSE, <i>Professor of Home Economics</i>	1936-1961
ORA ERWIN RUMPLE, <i>Professor of Chemistry</i> .....	1947-1964
JAMES BLAINE SHOUSE, <i>Professor of Education,</i> <i>Dean of the Teachers College</i> .....	1920-1945
RUSSELL B. SMITH, <i>Professor of Education</i> .....	1949-1959
KATHERINE WEHLER, <i>Professor of English</i> .....	1922-1953
FRANCES WHALEN WHELPLEY, <i>Professor of Chemistry</i> ....	1946-1965
MARY ANN WILLIAMSON WHITE, <i>Associate Professor</i> <i>of English</i> .....	1934-1958

## UNIVERSITY LIBRARY

Harold W. Apel, A.B., M.S. in L.S. ....	<i>Librarian</i>
Margaret S. Bobbitt, A.B., B.S. in L.S. ....	<i>Reference Librarian</i>
E. Jane Brugger, A.B., B.S. in L.S. ....	<i>Catalog Librarian</i>
Leah Josephine Fidler, A.B., M.A. in L.S. ....	<i>Bibliographer</i>
Jean G. Weekly, A.B., M.S. in L.S. ....	<i>Collegiate Library Librarian</i>
M. Kathleen Maspero, B.A., M.L.S. ....	<i>Assistant Reference Librarian</i>
Barbara D. Doherty, A.B., B.S. in L.S. ....	<i>Assistant Reference Librarian</i>
Elizabeth J. Hill, B.S., M.L.S. ....	<i>Assistant Reference Librarian</i>
Hugh E. Schramm, B.A., M.S. in L.S. ....	<i>Assistant Catalog Librarian</i>
Gloria J. Brewer, A.B., M.A. ....	<i>Assistant Catalog Librarian</i>
Herbert Bushelman, A.B., B.S. in L.S., M.A. ....	<i>Assistant Catalog Librarian (Part-Time)</i>
Bernice A. Dorsey, A.B., B.S. in L.S. . .	<i>Assistant Collegiate Library Librarian</i>
Garnet F. Chambers, A.B. ....	<i>Library Assistant (Circulation)</i>
Glen Alton Messer, A.B. ....	<i>Library Assistant (Acquisitions)</i>
Donald C. Hansen, A.B. ....	<i>Library Assistant (Acquisitions)</i>

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Jean G. Borkowski, A.B. ....	<i>Library Assistant (Circulation)</i>
Delores M. Wise ....	<i>Library Assistant (Serials)</i>
L. Ruth Wooten ....	<i>Library Assistant (Cataloging)</i>
Geraldine M. Pope ....	<i>Library Assistant (Circulation)</i>
Jean L. Laney ....	<i>Library Assistant (Circulation)</i>
M. Louise Perry ....	<i>Library Assistant (Circulation)</i>
Sandra K. Doss ....	<i>Library Assistant (Circulation)</i>
Sylvia B. Dillard ....	<i>Secretary to the Librarian</i>
Eloise W. Dickerson ....	<i>Secretary (Acquisitions)</i>
Cheryl L. Lilly, A.A. ....	<i>Clerk</i>
Mary Virginia McDonough ....	<i>Clerk</i>
Rosemary D. Massey ....	<i>Clerk</i>
Dorothy C. Bigley ....	<i>Clerk</i>
Vickie Ross ....	<i>Clerk</i>

### DEPARTMENT OF ATHLETICS

Edgar O. Barrett, A.B. ....	<i>Director of Athletics</i>
Charles E. Kautz, A.B., M.A. ....	<i>Assistant Athletic Director</i>
Eugene Morehouse ....	<i>Sports Information Director</i>
Patricia Stewart ....	<i>Department Secretary</i>
Darlene Vickers ....	<i>Department Secretary</i>
Phyliss Turner ....	<i>Football Secretary</i>
Shenna Ferguson ....	<i>Football Secretary</i>
James H. Hodges, Jr., B.B.A. ....	<i>Ticket Manager</i>
Perry Moss, B.S., M.A. ....	<i>Head Football Coach</i>
H. B. Brackett ....	<i>Assistant Football Coach</i>
William A. Dawson ....	<i>Assistant Football Coach</i>
Russell Parsons ....	<i>Assistant Football Coach</i>
Peter Kondos ....	<i>Assistant Football Coach</i>
James M. Moss ....	<i>Assistant Football Coach</i>
Ellis Johnson, A.B., M.A. ....	<i>Head Basketball Coach</i>

W. Stewart Way, A.B., M.A. ....	<i>Assistant Basketball Coach</i>
Larry K. McKenzie ....	<i>Freshman Basketball Coach</i>
Jack Cook, A.B., M.A. ....	<i>Baseball Coach</i>
David Knouse ....	<i>Tennis Coach</i>
John F. Shaw ....	<i>Track Coach and Cross-Country Coach</i>
Robert C. Saunders ....	<i>Swimming Coach</i>
Wilson C. Cyrus ....	<i>Wrestling Coach</i>
Edward Prelaz, A.B., M.A. ....	<i>Athletic Trainer</i>
John Hagan ....	<i>Equipment Manager</i>
Mervin G. Black ....	<i>Assistant Equipment Manager</i>

### LABORATORY SCHOOL

Phil E. Suiter, M.A. ....	<i>Administrator</i>
Anna Virginia Theis, A.B., M.A., M.S. ....	<i>Librarian, High School</i>
Carroll Joyce Wright ....	<i>Secretary</i>
Margaret H. Swann, A.B., M.A. ....	<i>Guidance Counselor</i>

### LOGAN BRANCH COLLEGE

John R. Arnold, B.S., M.A. ....	<i>Director</i>
Pauline B. Robinette ....	<i>Secretary</i>

### WILLIAMSON BRANCH COLLEGE

William Elliott Barrett, A.B., M.A. ....	<i>Director</i>
Ann Marie Whitt ....	<i>Secretary</i>

### ASSISTANTS TO ADMINISTRATIVE STAFF

#### OFFICE OF THE PRESIDENT

Olen E. Jones, A.B., M.A. ....	<i>Assistant to the President</i>
Grace Haeberle ....	<i>Administrative Secretary</i>
Geraldine W. Smithers ....	<i>Secretary to the President</i>
Jeri Lee Carter ....	<i>Secretary to the Assistant</i>



## OFFICE OF THE VICE PRESIDENT FOR ACADEMIC AFFAIRS

Marian Green ..... Secretary

## OFFICE OF THE VICE PRESIDENT OF BUSINESS AND FINANCE

Fred R. Smith, A.B. .... Comptroller

Richard D. Vass, B.B.A. .... Treasurer

Roger A. Hesson, A.A. .... Head, Payroll Department

Jeanne Childers, A.B. .... Accountant

William Thomas Bradley, Jr. .... Accountant

Cleopatra Garvin .... Accountant

Thelma Kessler .... Secretary

Elaine Rosenblatt .... Chief Clerk

Joy Woods .... Bookkeeper

Dorothy F. Smith .... Chief Bookkeeper

Helen Williamson .... Cashier

Linda A. Williamson .... Secretary

June Zimmerman .... Payroll Clerk

Yvonne Deeds .... Payroll Clerk

Wanda Paul .... Assistant Cashier

Mildred Ford .... Junior Accountant

Suzanne S. High .... Bookkeeper

Maxine Wolfe .... Accounts Payable Clerk

Susan McKenzie .... Key Punch Operator

Thelma Foster .... Refund Clerk

Beverly Underwood .... Stenographer-Telephone Operator

A. Doyle Carter .... Receiving and Inventory Clerk

Judith Clark .... Payroll Clerk

Carol Curry .... Clerk

Frank S. Willis, B.S. .... Director of Food Service

Mary E. Kirk .... Dietitian

Thelma F. Jones .... Dietitian

Lillian Langhorst .... Secretary, Cafeteria

W. Don Morris .... Manager, Student Union

Helen R. Wells .....	<i>Assistant Manager, Student Union</i>
John Cummings ....	<i>Assistant Manager and Program Director, Student Union</i>
Percy L. Galloway .....	<i>Manager, Bookstore</i>
Everett D. Newman .....	<i>Assistant Manager, Bookstore</i>
Sylvia Lanham .....	<i>Clerk, Bookstore</i>
Helen Bledsoe .....	<i>Clerk, Bookstore</i>
Elizabeth Andrews .....	<i>Clerk, Bookstore</i>
Radean Craddock .....	<i>Clerk, Bookstore</i>
Lavera Oswald Verlander .....	<i>Telephone Operator</i>

## OFFICE OF THE TEACHERS COLLEGE

Ethelene Holley, A.B. ....	<i>Secretary</i>
Louise Hutchison, M.A. ....	<i>Supervisor Certification</i>
Edna L. Ball .....	<i>Stenographer</i>
Ruth Ann Townsend, A.S. ....	<i>Clerk-Stenographer</i>
Eva Shirley .....	<i>Recorder-Stenographer</i>

## OFFICE OF THE COLLEGE OF ARTS AND SCIENCES

Nevada Mills .....	<i>Secretary</i>
Elfriede Beaver .....	<i>Stenographer</i>
Deloris Ann Fraley .....	<i>Clerk-Stenographer</i>
Betty Sayre .....	<i>Secretary-Counselor</i>

## OFFICE OF THE COLLEGE OF APPLIED SCIENCE

Virginia L. Durrett .....	<i>Secretary</i>
Faye H. Clay .....	<i>Clerk</i>
Nancy J. Riley .....	<i>Stenographer, Stenographic Pool</i>
Evelyn Burd .....	<i>Stenographer</i>
Susan Miller .....	<i>Stenographer</i>

## OFFICE OF THE GRADUATE SCHOOL

Donna Beckett .....	<i>Secretary</i>
Bobbie Dotson .....	<i>Secretary-Clerk</i>

## OFFICE OF THE DEAN OF STUDENT PERSONNEL PROGRAMS

Mildred Klein Heller, A.B. ....	Secretary
Juanita Moser .....	Secretary
Phyllis Y. Woody .....	Secretary to the Dean
Warren J. Myers .....	Housing Director
Deborah Napier .....	Secretary
Terry Myers .....	Assistant Financial Aid Officer
Gary Miller .....	Accountant
Shirley Jo Henson .....	Secretary, Financial Aid Office
Kay Hill .....	Assistant Secretary, Financial
Oscar T. Adkins .....	Resident Director, South Hall
Michael Farrell .....	Resident Director, South Hall
Vanna Hensley .....	Hostess, West Hall
Beatrice Terry .....	Hostess, Laidley Hall
Lucille Robertson .....	Hostess, Prichard Hall
Joe Alderman .....	Resident Director, Hodges Hall

## OFFICE OF THE REGISTRAR

Robert H. Eddins, B.S., M.S. ....	Assistant Registrar
Marvin Fulton .....	IBM Supervisor
Zanna Love Crager, A.S. ....	Secretary, Registrar
Virginia Lambert .....	Secretary, Assistant Registrar
Shelia Whitt .....	Transcript Clerk
Ruth B. Daniel .....	Receptionist
Sharon Duckworth, A.S. ....	Stenographer
Mary E. Rogers .....	Head Transcript Clerk
Mary Williams .....	Transcript Clerk
Karen Trout .....	IBM Clerk
Vivian Newman .....	IBM Machines Operator
Mabel Lemons .....	Veterans' Clerk
Wayne Conley .....	Junior Programmer

## OFFICE OF ADMISSIONS AND ADULT EDUCATION

James W. Harless, B.S.Ed., M.A. ....	<i>Assistant Director of Admissions</i>
Barbara James ....	<i>Secretary, Director of Admissions and Adult Education</i>
Janice M. Hager ....	<i>Secretary, Assistant Director of Admissions</i>
Rebecca Jill Prichard .....	<i>Clerk</i>
Jennifer Lambert .....	<i>Clerk</i>

## OFFICE OF INFORMATION AND PUBLICATIONS

Gary L. Watts, B.S. ....	<i>Assistant Director</i>
Shirley S. Dyer .....	<i>Secretary</i>
Charles Collins .....	<i>Supervisor, Duplicating Department</i>
Jean Hopkins .....	<i>Clerk, Duplicating Department</i>
Cora Heyman .....	<i>Clerk, Duplicating Department</i>

## OFFICE OF THE DIRECTOR OF PLACEMENT

Barbara Brunner, M.A. ....	<i>Assistant Director</i>
Helen Davidson .....	<i>Secretary</i>
Donna Thornton .....	<i>Stenographer</i>
Virginia Ryan .....	<i>Secretary</i>

## OFFICE OF ALUMNI AFFAIRS

Don H. Foose, A.B. ....	<i>Assistant Director</i>
L. Marie White, M.A. ....	<i>Directress of Records</i>
Virginia Thompson .....	<i>Secretary</i>

## BUILDINGS AND GROUNDS OFFICE

Charles Steve Szekely, B.S. ....	<i>Superintendent</i>
Eugene B. Wilkinson .....	<i>Chief Engineer</i>
Howard K. Sorrell .....	<i>Service Engineer</i>
Evelyn E. Bishop .....	<i>Clerk-Stenographer</i>
Marie Woodruff .....	<i>Clerk</i>

## UNIVERSITY COMPUTER CENTER

George M. Mendenhall, B.E.S. ....	<i>Director</i>
Richard H. Bryan, B.S.E.E. ....	<i>Systems Analyst</i>

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Ralph E. Griffith, B.S. ....	<i>Programmer</i>
Elizabeth R. Truehart, A.B. ....	<i>Computer Operator</i>
Nellie A. Plybon ....	<i>Computer Operator</i>
Linda L. Ash ....	<i>Key Punch Operator</i>
Lynn E. Booth ....	<i>Secretary, Key Punch Operator</i>

#### CAMPUS CHRISTIAN CENTER

The Rev. Hardin W. King, A.B., B.D. ....	<i>Campus Pastor</i>
The Rev. William Villers, B.S., B.D. ....	<i>Campus Pastor</i>
The Rev. George L. Sublette, B.D. ....	<i>Campus Pastor</i>
The Rev. Stephen D. McWhorter ....	<i>Campus Pastor</i>
The Rev. Father Robert V. Arkle ....	<i>Campus Priest</i>
Teresa Clagg ....	<i>Secretary</i>

#### STUDENT HEALTH SERVICE

Nellie Jean Beach, R.N. ....	<i>Nurse</i>
Shelia M. Kyle, R.N. ....	<i>Nurse</i>
Harry Shappelle, M.T. (ASCP) ....	<i>Laboratory Technician</i>

#### EDUCATIONAL RADIO-TELEVISION

Stephen D. Buell, B.S., M.S., Ph.D. ....	<i>Director</i>
Charles W. Dinkins, B.S. ....	<i>Assistant Director</i>
Roland Dean Sturm ....	<i>Producer-Director</i>
William Harry Pethtel ....	<i>Chief Engineer</i>
Hilda W. Pridemore ....	<i>Secretary-Bookkeeper</i>

#### MARSHALL UNIVERSITY AND ASSOCIATES BROADCASTING (WMUL-TV)

Richard D. Settle, A.B., M.A. ....	<i>Station Manager</i>
George Parnicza ....	<i>Chief Engineer</i>
Nora Jean Bias ....	<i>Business Manager</i>
Carol J. Brodtrick ....	<i>Program Operations Manager</i>
David S. Bond ....	<i>Production Manager</i>
Lawrence A. Broquet, B.S., M.Ed. ....	<i>Utilization Director</i>



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David F. Marshall	<i>Assistant Chief Engineer</i>
Raymond F. Warren	<i>Broadcast Engineer</i>
Flora J. Cox	<i>Secretary</i>
Margo D. Fleshman	<i>Clerk</i>
Vicky Allen	<i>Clerk</i>

## SPECIAL POSITIONS

Walter Felty, M.A.	<i>Director, Audio-Visual</i>
Lawrence Nuzum, Ed.D.	<i>Director, Student Teaching Center</i>
Patricia Hunt	<i>Secretary, Student Teaching Center</i>
Harold Willey, Ed.D.	<i>Director, National Teachers Corp.</i>
Jane G. Leith	<i>Secretary, National Teachers Corp.</i>
Mrs. Offa Jenkins, Ph.D.	<i>Director, Special Education</i>
Jean Jacobs	<i>Secretary, Special Education</i>
Paul K. Bloss	<i>Captain, Security</i>
Jane M. Ludwig	<i>Departmental Assistant, Journalism</i>
Ralph Turner	<i>Editorial Counselor, Journalism</i>
Douglas L. Dill, A.B.	<i>Laboratory Technician, Journalism</i>

# General Information

## MARSHALL UNIVERSITY

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

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

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

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

## HISTORY

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

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

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

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

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

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

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

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

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

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

The College of Arts and Sciences was established in 1923 and awarded the first liberal arts degrees in 1925. The degree of Bachelor of Science was authorized in 1938, Bachelor of Engineering Science in 1940, and Bachelor of Science in Chemistry in 1951. The Bachelor of Business Administration was approved in 1954. In 1945 two-year programs leading to the degrees of Associate in Arts and Associate in Science were approved in ten fields.

The College of Applied Science was established in 1960 and granted its first degrees in 1961. The degree of Bachelor of Science in Civil Engineering was authorized in 1968.

The Graduate School, authorized in May 1948, grew out of a program of graduate work in six departments which had been established in 1938. Courses leading to the degree of Master of Arts or Master of Science are now offered in twenty-six major fields with ten additional departments offering work in a minor field.

Marshall was granted University status by an act of the 55th West Virginia Legislature in March 1961. Two-year branch colleges at Williamson and Logan started in 1963.

## ACCREDITATION

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

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

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

### LOCATION

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

### BRANCH COLLEGES

Branch Colleges at Logan and Williamson offer two years of work in the College of Arts and Sciences, Teachers College and the College of Applied Science. One year of credit can be earned in engineering. All work carries full residence credit.

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 Adult Education, and School of Business.

### BUILDINGS

The Marshall University campus consists of 65.5 acres near the center of Huntington. Occupying the tree-shaded grounds are the following buildings:

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

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

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

**JAMES E. MORROW LIBRARY**, main section erected in 1930 and named in honor of a former president of the University. 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.

TV BUILDING, formerly the music building; now serving as temporary headquarters for educational television operations.

OTTO GULLICKSON HALL was completed in 1961 and named in 1963 to honor an outstanding Marshall leader and teacher. The building houses the Athletic Department, Department of Physical Education for Men, Department of Military Service, and the University Health Service. Facilities include classrooms, a main gymnasium with seating for 1,550, 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 LABORATORY SCHOOL was dedicated in 1937 and named in honor of a distinguished Confederate cavalry officer who was a native of Cabell County. Providing kindergarten, elementary, and high school education, the school serves as a laboratory for prospective teachers enrolled in the University.

SHAWKEY STUDENT UNION, center of campus social activities, was 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 which now include a snack bar and booths, game rooms, a dance floor, meeting rooms, and the offices of the Student Government and the yearbook.

UNIVERSITY DINING HALL was completed in 1940 and accommodates dormitory residents and others associated with the University.

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 new 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 to house men. Additional floors completed in 1968.

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, 10 blocks east of the University, seats 6,250 and is used as Marshall's home basketball court.

FAIRFIELD STADIUM, seating 10,000, 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.

TEMPORARY ENGINEERING BUILDING, former state road commission structure, now housing the Department of Engineering.

NURSERY, formerly the President's residence.

## COMPUTER CENTER

An IBM 1620 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 instruction.

Currently, the Department of Engineering offers courses in computer methods. Special courses of instruction in computer language and computer operation are offered occasionally for the benefit of faculty and staff members.

## DEVELOPMENT AND ALUMNI AFFAIRS

The Office of Development and Alumni Affairs (Old Main 129) coordinates activities of the Marshall 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 Alumni Association**

To provide communication and additional services to University Alumni, the Marshall Alumni Association maintains names and addresses of some 30,000 former students. Alumni publications include *Marshall Alumnus*, a magazine, and *Beech-notes*, a newsletter. 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.

# 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 director of admissions. All correspondence about admissions and *all credentials in support of an application must be on file at least two weeks before the opening of a semester or term and must 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. Separate applications for admission and for housing are necessary. All housing arrangements must be made through the office of the Director of Housing.

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

## 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 Education:

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  $\frac{1}{2}$  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 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.

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 degrees—additional one unit of algebra,  $\frac{1}{2}$  unit of geometry,  $\frac{1}{2}$  unit of trigonometry, one unit of chemistry and one unit of physics.

Associate in Nursing Degree—one unit of chemistry recommended. Successful completion of required psychological and physical examinations. Specific information concerning admission to the nursing program should be requested.

Bachelor of Science in Civil Engineering and Bachelor of Engineering Science degrees—required mathematics including algebra, plane and solid geometry, trigonometry, analytical geometry, and an introduction to calculus through the equivalent of Mathematics 180. Recommended one unit of chemistry and one unit of physics.

## **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 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  $\frac{1}{2}$  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 in good standing in every respect at the last institution attended and must have maintained an overall average of "C" (2.0) or better on all college work previously attempted.

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

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 a transfer student rather than as a high school graduate.*

### Classification of Freshmen Admitted from High Schools

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 on required content subjects is A- (3.75) or above are admitted WITH HONORS.

Graduates whose scholastic average on required content subjects is less than "C" are admitted on WARNING which limits academic and social activities until the condition is removed.

### 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. 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.

Students reporting for registration without ACT scores on file in the institution are placed in remedial sections of English and mathematics.

\*Accredited colleges or universities are those approved by national or regional accrediting associations or the state university in the state in which the institution is located.



## **Admission by General Education Development Test**

Marshall University is an official testing center for General Education Development Test (GED). 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 3.0 (B) 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.

## **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 terms 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+ 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.

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

### 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. 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.

### FOREIGN STUDENTS

Foreign students are admitted to Marshall when they demonstrate proficiency in written and spoken English by the successful completion of the Test of English as a Foreign Language, administered by the Educational Testing Service of Princeton, New Jersey 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.

The 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 Foreign Student Adviser is Dr. John H. Saunders. Marshall University is under the jurisdiction of the Pittsburgh, Pennsylvania, Office of the United States Immigration and Naturalization Service.

### ORIENTATION WEEK

Freshman Orientation Week is held each year so new students will have a chance to adjust to their new surroundings and to register. During the week students confer with University personnel regarding personal problems and living accommodations; become acquainted with the campus and its academic and recreation facilities; are introduced to Marshall's traditions and customs; and, in general, have a chance to get "settled down" before the semester begins.

Selected upperclassmen and members of the faculty greet new students and help them adapt to university life.

Advanced orientation and registration periods are held during the summer for incoming freshmen. Specific dates for orientation periods are announced to students through letters from the Dean of Student Affairs.

# Academic Information

## FACULTY-STUDENT ADVISORY PROGRAM

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

## SEMESTER HOURS

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

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

## STUDENT SCHEDULES AND COURSES

1. **SEMESTER LOAD.** To make normal progress toward graduation, the student should complete approximately 25 per cent of the degree requirements within a calendar year. Programs of nineteen hours or more per semester 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 or four hours respectively.

4. **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 100 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—Honor, given only for superior performance. Four quality points are earned for each semester hour with a grade of A.

B—Good, given for performance distinctly above the average in quality. Three quality points are earned for each semester hour with a grade of B.

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

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

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

FIW—Failure because of irregular withdrawal. No quality points. A student receiving one or more FIW's is automatically on probation. (See regulations on withdrawal.)

W—Withdrawn during the first calendar month after the date for the first class meeting in the semester, or during the first 10 calendar days after the date of the first class meeting in the summer session. No quality points. (See regulations on withdrawal.)

WP, WF—Withdrawn later than the first calendar month after the date of the first class meeting in the semester, or later than the first 10 calendar days after the date of the first class meeting in a



summer term. The grades WP (withdrawn passing) and WF (withdrawn failing) show the status of the student's work up to the official withdrawal date (not the last day of class attendance) unless otherwise directed by the academic dean and so noted on the drop slip. The official withdrawal date is the date on the withdrawal slip issued by the Registrar's Office. (See regulations on withdrawal.) No quality points.

I—Incomplete, given to students who miss some of the last exercises of class work because of illness or some other valid reason beyond the control of the student. When the work missed is done satisfactorily, the final grade may be any one of the four passing grades. If the deficiency represented by I is not made up within the next semester or summer in residence, or if the make-up work is unsatisfactory, the grade becomes an F. No quality points for an I grade.

### QUALITY POINTS REQUIRED FOR TEACHER CERTIFICATION AND GRADUATION

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

The quality point average is computed on all work for which the student has registered 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, the 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 during the first 30 calendar days after the first class meeting of the semester or within one week after the first class meeting of a summer term will receive a grade of W followed by the date of official withdrawal; thus W 2-14-67.
2. Students withdrawing after the first 30 calendar days of a semester and through the last day of the week preceding the final week of classes will receive a grade of W accompanied by a P for passing or F for failing to show the status of the student's work at the time of official withdrawal; thus WP 4-10-67 or WF 4-10-67.

In a summer term the same period will begin at the end of the first week of classes and end on the last day of classes of the 4th week of a five-week term, or the 8th week of a 9-week term.

3. Official withdrawals during the last week of classes and the examination period of a regular semester or the last week of a summer term are not permitted except in cases of extreme emergency beyond the control of the student. Withdrawals in this period will be permitted only through personal conference with the academic dean.
4. Men and women called to the armed services of the United States shall be granted full refund of fees, but no credit, if the call comes before the end of the first three-fourths of the term, and that full credit by courses, but no refund of fees, shall be granted to men and women called to the armed forces of the United States if the call comes thereafter; provided, however, that credit as described above will be granted only in those courses in which the student is maintaining a passing mark at the time of his or her departure to military service. In recording the final grades for three-fourths of a term or more, both passing and failing grades are to be shown on the student's permanent record card.

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

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

### **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 as FIW. If, in the opinion of the instructor, the absence was for a satisfactory reason, the grade I is reported, and the student may, upon application, take the examination at a later date. (See "Incomplete" under Grades and Quality Points.)

### **ABSENCES FROM CLASSES**

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

### **ACADEMIC PROBATION**

1. A student who has attempted fewer than 75 semester hours with a deficit of 10 or more quality points is on academic probation.
2. A student who has attempted 75 or more semester hours with a quality point average of less than 2.0 is on academic probation.
3. A student who receives one or more FIW's is on academic probation the following semester or summer term in attendance.
4. 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 Education.

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 may be declared ineligible to attend during the regular academic year (First (Fall) and Second (Spring) 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 once again enroll in the First and or Second Semester. 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 reduced 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 is classified as a transfer student and is governed by the regulations applying to transfer students.

### **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.

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 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 201H 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.

## **AUDIT AND NONCREDIT COURSES**

An audit student is one who enrolls as an observer or listener only. Auditing is allowed only when there is space available in the class and the academic dean having jurisdiction over the course authorizes audit status. Enrollment for audit is limited to the regular registration period for the semester or term. Students who want to audit classes must enroll and pay fees in the same manner and at the same tuition rate as students enrolling for credit. Audit students receive no credit. Faculty members wanting to audit courses must secure approval of their dean and the instructor of the course or courses desired and must enroll in the regular manner for such courses. Audited courses can not be repeated for credit.

## **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 LIST**

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 chairmen of their departments, and approved by the Honors Committee, may receive 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 3.5 grade point average in the major and a 3.3 over-all average are required of applicants. 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 255.

Three factors are taken into consideration in determining eligibility for graduation with honors:

1. A transfer\* student must have earned at least 72 hours of work at Marshall University.
2. All work completed 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.

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

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

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

Transcripts are prepared in the order received.

## ACADEMIC PUBLICATIONS OF THE UNIVERSITY

The University issues six bulletins annually: the general catalog, the graduate catalog, the admission bulletin, the schedule of courses for each semester, and the summer session bulletin. Other special publications are issued from time to time.

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



## Fees and Expenses

Fees are due and payable when invoices are rendered to the student from the Office of Business and Finance. Payment must be mailed or paid in person to the Cashier, Room 103, Old Main Building. Every student who registers incurs a financial obligation to the University. Official withdrawal or administrative cancellation of a registration for nonpayment of fees does not eliminate the obligation. Failure to pay enrollment fees does not automatically relieve the student of his responsibility to properly and officially withdraw from the University through his Academic Dean or Branch College Director. Students dropping courses from their original schedule or withdrawing completely from the University will not be allowed to deduct the amount from the original invoice. They must pay the invoice for the original number of hours. Refunds will be granted under the regular University policy for refunding fees. When withdrawals occur without prior proper payment of fees, students shall be assessed the pro-rata percentage to the refundable amount. The student must pay for the time incurred in class up until the date of the withdrawal. See Page 63—Refunding of Fees.

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

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

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

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

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

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

	Resident of West Virginia	Non- resident <sup>1</sup>
Tuition Fee .....	\$ 25.00	\$175.00
Registration Fee .....	50.00	200.00
Student Activity-Services Fee .....	54.00 <sup>2</sup>	54.00 <sup>3</sup>
Total Enrollment Fee .....	\$129.00	\$429.00

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

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

**Nonresident**

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

<sup>1</sup> NONRESIDENT FEES shall apply to those students who are legally domiciled in states other than West Virginia. The official domicile of a minor is that of his or her parents or legal guardian.

<sup>2</sup> THE STUDENT ACTIVITY-SERVICES FEES are allocated as follows: Assemblies and Forums \$1.50; Athletics \$7.50; Artists Series \$3.75; Chief Justice \$2.25; University Theatre \$.50; Parthenon \$.30; Student Government \$.20; Student Union \$.18; University Band \$.25; Radio Station WMUL \$.25; Debate \$.15; Identification Card \$.25; Health Service \$.60; and Laboratory and Course Fees \$.86.

<sup>3</sup> A special activity card for the use of the spouse of a full-time student costs \$20.00 and covers: Athletics (\$12.50), Assemblies and Forums (\$1.50), Artists Series (\$5.00), and I.D. Card (\$1.00).

<sup>3</sup> I.D. card \$.25; Student Union \$.50; balance Laboratory and Course Fees; a student activity card is available to part-time students for \$40.00.

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

**West Virginia Resident**

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

**Nonresident**

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

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

**West Virginia Resident**

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

**Nonresident**

HOURS	TUITION	REGIS- TRATION	STUDENT ACTIVITY- SERVICES <sup>2</sup>	OUT OF STATE	TOTAL
1	\$ 5.00	\$17.00	\$6.00	\$10.00	\$38.00
2	8.00	34.00	7.00	22.00	71.00
3	10.00	51.00	8.00	35.00	104.00

**ENROLLMENT FEES—EXTENSION DIVISION**

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

**NONRESIDENT**—Tuition fee \$15.00 per semester hour; registration fee \$17.00 per semester hour; \$2.50 course fee, all payable when the invoice is rendered from Office of Business and Finance.

**ENROLLMENT FEES—BRANCH COLLEGES**

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

1. Summer Assemblies and Forums \$.50; Student Union \$.50; Parthenon \$.50; Health Services \$.20; I.D. Card \$.25; and Laboratory and Course Fees \$8.75.

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

### DORMITORY FEE

All students living in University dormitories are required to pay the dormitory fee. This fee includes the cost for housing and a food service fee for a full semester. The cost (including W. Va. State Consumers' Sales Tax of \$12.96) is \$444.96 per regular semester. The cost is based on prevailing prices and subject to change in the event of price increases in food, materials and labor necessary for the operation of dining halls and dormitories. The dormitory fee per five week summer term is \$123.60, including \$3.60 W. Va. Consumers' Sales Tax. Meals are available to students rooming off campus at the same rate as resident students. The food service plan is not valid during vacation 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 Director of Housing.

### ESTIMATE OF EXPENSES AND DATES PAYMENTS DUE

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

	W. Va. Resident	Nonresident
*Enrollment Fee (Actual) .....	\$129.00	\$429.00
**Dormitory Fee (Actual) .....	444.96	444.96
***Books, Supplies (Estimated) .....	65.00	65.00
	<u>\$638.96</u>	<u>\$938.96</u>

**\*Enrollment Fee:**

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

**\*\*Dormitory Fee:**

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

**First Semester Dormitory Fee:**

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

**Second Semester Dormitory Fee:**

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

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

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

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

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



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

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

**Graduation Fees**

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

**Cap and Gown Fee**

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

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

**Fees for Auditing Courses**

a. Full-time staff members may audit courses without charge. All full-time staff members wanting to audit courses must secure the approval of their dean and the instructor of the course or courses they want to audit. It will also be necessary for them to enroll in the regular manner for such courses.

b. Non-staff members who audit classes must enroll and pay fees in the same manner and at the same tuition rate as students enrolling for credit.

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

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

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

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

**REFUND OF FEES****I. Withdrawal from the University*****Enrollment, Tuition and Registration Fees***

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



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

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

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

## II. Withdrawals due to administrative action

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

## III. Food Service Plan

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

## IV. Refunds to students called to armed services

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

## V. Special fee refunds

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

## VI. Late fees are nonrefundable

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

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

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

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

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

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

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

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

A student under twenty-one years of age shall not be classified as a resident student until his parents have resided in this state for at least twelve consecutive months immediately preceding the date of current registra-

tion. A West Virginia student whose parents or guardian move out of the state of West Virginia after his original enrollment, will automatically become liable for the nonresident fee at the next registration period after twelve months following removal of parents or guardian.

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

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

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

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

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

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

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



# Division of Adult Education

## EVENING SCHOOL

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

Evening classes are provided for any group not interested in college credit but which wishes to meet for 1 to 12 or more sessions to discuss some topic of vital interest to them in their daily work. A class of 12 or more students is required to organize a special interest group.

The Evening School serves those who need or want further education for credit or noncredit. It is possible to earn college credit which will serve the needs of those working toward college degrees in the various fields of study.

For those who want college credit there are two lines of work:

1. Undergraduate work for high school graduates who wish to improve their employment status through education or those who want to extend their knowledge in some direction or wish to satisfy their intellectual curiosity by following a particular line of studies.

2. Graduate work for those who hold a baccalaureate degree and who wish to work for a master's degree. Work done in evening classes carries residence credit.

## EXTENSION CLASSES

Extension classes are offered for teachers and others who cannot be in residence. Credit or noncredit courses in several fields are offered on a semester basis.

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

The quality of instruction in extension is on the same high level as that of regularly taught classes on the campus since all staff members doing extension are full-time faculty members.

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

### Undergraduates

Undergraduates not previously enrolled in Marshall University must furnish the Registrar's Office immediately (dates announced by Office of Adult Education) with official transcripts of credit from other colleges or with transcripts of high school credit. Those who wish to earn credit to be transferred to other colleges or to renew certificates may satisfy this requirement by having letters of good standing written from their undergraduate colleges to the registrar of Marshall University.

### **Graduate Students**

College graduates beginning work for the master's degree in extension courses must do the following before credit can be earned to count toward a degree in Marshall University or be transferred to another graduate school.

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

Extension students who are college graduates and who do not wish to work toward a degree may be excused from the transcript and application requirements by signing a form forfeiting graduate credit. However, these students must furnish the Registrar's Office with letters of good standing from their undergraduate colleges. Compliance with these regulations is a required part of the registration procedure for graduate students.

Students who fail to comply with these regulations within a reasonable time (dates to be announced each semester) may be withdrawn from courses by administrative action by the dean of the Graduate School.

### **COMMUNITY SERVICES**

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

**SPEAKERS AND PROGRAMS**—The Information Service Office is glad to receive requests for speakers to appear before school, civic and community organizations, scientific societies, service clubs.

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

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

**SCHOOL SURVEYS AND CONSULTANT SERVICES**—The University provides consultant services and assists in surveys in the field of education. Counties wanting assistance with such problems as transportation, building programs, curriculum development and other problems of similar nature should request such assistance. The director of adult education should be informed of the needs and desires of a particular organization or county before the beginning of the semester whenever possible.

**CONFERENCE AND WORKSHOPS**—Insofar as possible facilities of the University will be made available to industrial, educational and other groups for conducting special conferences and workshops.



# Student Life

## HOUSING

### Residence Halls

There are four residence halls for women: Laidley Hall, Prichard Hall, West Hall, and Twin Towers.

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

All students making reservations for the fall term must remain in the residence hall for an entire academic year except for the reason of graduation or circumstances beyond their control. See Required Dormitory Housing.

### Room Applications, Cancellations and Refunds

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

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

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

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

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

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

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

**Second Semester**

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

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

**REQUIRED DORMITORY HOUSING**

Beginning September, 1969, all full-time students requiring housing must live in a Marshall University facility for four (4) semesters starting with the first freshman semester so long as space is available.

Students having established prior residency in a University facility regardless of classification will be accommodated first. Any space remaining in University housing after freshmen and sophomores are assigned will be allocated among upperclassmen on a priority basis with the receiving date of the application being used as the determining factor.

Exceptions to this policy include married students; students 21 years of age or older; students who have completed military service; students who, after two semesters in University housing, wish to reside in a Marshall University fraternity or sorority house providing they are members of the fraternity or sorority where they wish to reside.

A determination will be made as to what constitutes a reasonable commuting distance to Marshall University, and students residing within this area will be assigned rooms only if space permits and they request accommodations.

The Director of Housing will determine special exceptions to this policy. Appeal may be made to the Dean of Student Affairs.

**Refund**

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

## Rooms

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

All residence halls are closed during the Thanksgiving, Christmas and Easter vacation periods. The residence halls will also be closed between first and second semesters.

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

## Breakage

Students are not required to pay a furniture breakage fee. They are expected to exercise reasonable care in the use and custody of University property in the residence halls. The cost of repair (to be determined by the Superintendent of Buildings and Grounds) for any unnecessary or careless breakage or damage to a room or furniture is assessed to the responsible student or students.

## Sorority and Fraternity Houses

Ten fraternities and seven sororities maintain homes near the campus in which residence and dining facilities are available to members. These homes are governed by the same University regulations as those in University residence halls. The homes are supervised by University-approved hostesses who are employed by the sorority or fraternity in cooperation with faculty advisers.

## Rooms in Private Homes

Although Marshall University may continue to provide students information about available off-campus housing facilities, it is no longer possible to designate any housing not specifically owned by the University as "University approved." Therefore, any student who decides to reside in off-campus housing accepts full personal responsibility for the health, safety, and living standards which he agrees to accept, and for whatever *contractual arrangements* he makes with the landlord. It is hoped that for his own protection in this respect, each landlord will make it clear to present and potential student tenants and their parents that all agreements reached are between the landlord and the tenant, and that they do not constitute any contractual involvement of Marshall University.

Rooms in private homes are listed in the office of the Housing Director. All rental transactions are negotiated directly between the student and the householder. The University recommends a personal inspection and approval of the residence by the student and his parents before a rental transaction is consummated. Men and women may not rent rooms in the same rooming house.

## Housing for Married Students

The University has 48 housing units, located at University Heights, 4 miles from the campus, which are rented to married students and their

families at rates of \$45.00 per month for a one-room apartment and \$65.00 per month for a two-room apartment. Applications may be procured from the Housing Director. A security deposit of \$25.00 is charged for these units.

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

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

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

All students living in University residence halls are required to purchase their meals through the University dining halls. Cost of meals is no longer figured separately since room and board are both considered part of the dormitory fee. The University dining halls serve all meals during the regular academic year beginning with the first day of classes for each semester, with the exception of the Sunday evening meal. During holiday periods the University dining halls are closed.

## **GENERAL COUNSELING**

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

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

### **Counseling and Testing Center**

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

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



## STUDENT HEALTH SERVICES

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

A physician, laboratory technician, and nurses staff the student clinic. The University physician, located in Gullickson Hall, is available only for such services as may be rendered at the clinic, except in emergency cases. Students who wish to avail themselves of the Health Service are expected to call at the office of the physician during office hours.

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

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

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

The University's medical examination form, completed by the family physician and submitted as part of the admission credentials, is on file in the Health Service.

## HOSPITALIZATION

The Student Government offers a specially designed student accident and sickness group insurance plan providing coverage for hospital and medical expenses. The plan protects students the year-round; at home, at the University and during all vacations (including summer). All full-time students and their dependents are eligible for participation in the plan.

Student hospitalization coverage is not compulsory, but is recommended.

Application forms will be mailed to the student's home address prior to the fall term. They may also be obtained at the Student Government Office or the Office of Student Affairs;

## THE PSYCHOLOGY CLINIC

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

## THE READING CENTER

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

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

Additional information may be obtained by contacting The Reading Center, 19B, Old Main, Ext. 359.



## **THE SPEECH AND HEARING CLINIC**

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

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

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

## **MARSHALL UNIVERSITY LIBRARY**

The Marshall University Library is housed in the James E. Morrow Library Building. Library facilities are open to University students, faculty, and staff. Permission for use of the facilities is also extended to others in the 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 163,000 volumes, and more than 1,200 current periodicals are received regularly. The Library is a designated depository for U. S. Government documents. Several special collections are available for reference use.

## **AUDIO-VISUAL CENTER**

The Audio-Visual program at Marshall University aids the University faculty in selecting and utilizing audio-visual aids, and trains teachers and prospective teachers in the use of all types of audio-visual materials, equipment, and techniques. The Audio-Visual Center is maintained in Room 4, Science Building, and courses and workshops in audio-visual education are offered at the University and in extension centers throughout the state.

## **OFFICE OF PLACEMENT**

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

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

The office is located at Room 114, Old Main.

## STUDENT CONDUCT

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

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

### Intoxicating Beverages

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

## REGULATIONS GOVERNING STUDENT PARTICIPATION IN UNIVERSITY-SPONSORED ORGANIZATIONS AND ACTIVITIES

Marshall University fosters the following ideas as basic in student participation in extra-curricular activities:

1. Any regularly enrolled student is eligible for membership in any organization he wishes to join. (The only exception to this general principle is that some organizations recruit membership by invitation.)
2. Any regularly enrolled full-time student may participate in University-sponsored athletic activities. (Eligibility is determined by the Athletic Board in conformity with University regulations, the code of the Mid-American Athletic Conference, and the National Collegiate Athletic Association.)

3. Because college students are expected to be mature enough to execute judgment regarding the extent to which they should join organizations, the University does not place negative restraints upon the individual except as follows:
  - (a) No student on academic or disciplinary probation, or on academic warning, may become a pledge or member of any student social organization.
  - (b) No student on academic or disciplinary probation, or on academic warning, may hold positions of leadership. Positions of leadership include all officers of organizations, major committee chairmanships, all elected and appointive officers and members of Student Government and all major positions on student publications.
4. Academic eligibility for participation in activities is established at the beginning of the regular college year for the entire year except as noted under 2, 3-a and 3-b. There are some instances where students ineligible at the beginning of the year may become eligible at the beginning of the second semester. The academic deans make probation lists for their respective colleges and distribute copies to all members of the faculty and administrative staff.
5. Social eligibility is granted all University students, but may be rescinded by administrative action.

### **Types of Disciplinary Action**

A student who violates rules of the University and standards of good conduct may be reprimanded according to the nature of offense. Disciplinary action may include:

1. Formal warning—a written warning to the student that his conduct bears improvement.
2. Disciplinary probation—a written warning to a student responsible for repeated or more serious violations of standards that his conduct bears improvement. A student on disciplinary probation may not pledge a fraternity or sorority, or hold a position of leadership (i.e., student organization officer, major committee chairmanship, elective or appointive student government positions, major positions in student publications). A student on disciplinary probation is subject to suspension in the event of further misconduct.
3. Suspension—a severance of the student's relationship with the University. He may be re-admitted after a stated period of time.
4. Dismissal—a severance of the student's relationship with the University for an indefinite period of time. His return to the University is not guaranteed, but he may petition the Office of Student Affairs for such.
5. Expulsion—a permanent severance of the student's relationship with the University.

### **Procedure for Disciplinary Cases**

Students accused of misconduct will be referred to one of the student personnel deans, who will make a preliminary investigation. If the offense is minor, the dean may administer appropriate disciplinary action.

If the student is charged with conduct which could result in "substantial disciplinary action" the student will be given reasonable notice of the charge in writing, time to prepare a defense and an adequate and fair hearing.

The student will be given a choice of a hearing before the student personnel deans acting as a body, or before a committee composed of members of the Student Conduct and Welfare Committee, chaired by the Dean of Student Affairs.

The time, place and date of the hearing will be stated in writing. The hearing will then proceed at the appointed time whether or not the students involved are in attendance.

The student may hear the testimony against him, speak on his own behalf, and present witnesses or written statements of witnesses in his behalf. The hearing cannot be construed as a full-dress judicial hearing with the right to cross-examine witnesses. The student will receive a written statement of the decision of the committee.

Any decision made by the student personnel deans may be appealed to the Student Conduct and Welfare Committee, in which case the chairman of the committee will chair the board which hears the appeal.

### **STUDENT CONDUCT AND WELFARE COMMITTEE**

The Student Conduct and Welfare Committee is composed of five faculty members, the dean of student affairs, the associate deans of students, the director of counseling and testing, and two students. The committee considers policies relating to the coordination and regulation of student organizations, student social events, and other student activities; academic conduct of students; advisory loans and scholarships, and is an appeal board for student disciplinary cases.

### **STUDENT AID EXECUTIVE BOARD**

The Student Aid Executive Board is the administrative agency of Marshall University charged with the administration of all regulatory matters pertaining to (a) academic scholarships, (b) athletic scholarships or grants-in-aid, (c) National Defense Student Loans, (d) Educational Opportunity Grants, (e) emergency loans or long-term loans, (f) College Work-Study Program, and (g) Federal Insured or United Student Aid Fund Loans.

#### **MEMBERSHIP**

The membership is composed of seven full-voting members and one non-voting member of the Student Conduct and Welfare Committee:

- (1) Dean of Student Affairs (Chairman)
- (2) Two Associate Deans of Students
- (3) Financial Aid Officer (Ex-Officio)



- (4) Three members elected by the membership of the Student Conduct and Welfare Committee at their last meeting in May of each year.

The Student Aid Executive Board will meet at the call of the Financial Aid Officer to consider and approve awards for scholarships and long-term loans.

### **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.

### **ARTISTS SERIES, FORUMS, CONVOCATIONS**

The Marshall University Student Artists Series, Community Forum and Convocations annually offer students professional talent of international reputation, including symphony orchestras, opera, and lecture authorities. All programs are designed to instruct and entertain the student. Informal teas and conferences with artists and speakers contribute to the cultural life of the campus and students find a ready welcome to all of these events. A fee is included in the Student Activity-Service Fee and no further admission charge is collected for any of the above programs.

### **SHAWKEY STUDENT UNION**

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

### **DEBATE, SPEECH CONTESTS, AND THE SPEAKERS BUREAU**

Marshall University's forensics program, under the direction of the Speech Department, provides students with opportunities both 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 State Intercollegiate tournament



and 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.

### RADIO STATION WMUL

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

### GEOLOGY MUSEUM

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

### BAND, ORCHESTRA AND CHORAL GROUPS

All students at Marshall University are eligible to enroll for any one of the major musical organizations on the campus such as the Marching Band, Concert Band, Stage Band, Marshall Community Symphony, Symphonic Choir,

Men's Glee Club, A 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 is published four times a week by students under the direction of the Department of Journalism.

THE STUDENT HANDBOOK is published annually in September by the Student Senate and the Office of Student Affairs and contains general information for all students with particular emphasis on information for freshmen.

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

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

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

## RELIGIOUS LIFE

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

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

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

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

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

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

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

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

## INTRAMURAL

Intramural athletics at Marshall University is a program of competitive athletics promoted for every student on the campus. The program is sponsored and personally conducted by members of the physical education staff. Marshall University conducts a comprehensive program attempting to promote activities in every field of athletic interest.

## INTERCOLLEGIATE ATHLETICS

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

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

The athletic program is directed by the Athletic Board, consisting of five faculty members, an alumnus, the Vice President of Business and Finance, the Dean of Students, a representative for the Student Body, and the Athletic Director who serves as secretary-ex-officio.

The Board supervises the maintenance and development of the athletic program in conformity with the standards of the Mid-American Conference and the National Collegiate Athletic Association. Upon the request of the president, the Athletic Board assists in matters concerning athletic personnel. This Board is responsible for a well-balanced athletic program including the academic eligibility of athletes. The athletic director carries out those actions of the Athletic Board which have been approved by the president.

As a rule, coaches teach classes in academic departments 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, and wrestling.

## STUDENT ORGANIZATIONS

**DRAMATIC AND FORENSIC ORGANIZATIONS:** Alpha Psi Omega—National Honorary in Dramatics; Pi Kappa Delta—National Honorary Debate Society; University Theatre.

**MUSIC ORGANIZATIONS:** Choral Union—Consists of Men's Concert Choir, Symphonic Choir, Treble Clef Club; Orchestra; Band; Delta Omicron—National Honorary Society for Women; Phi Mu Alpha Sinfonia—National Honorary for Men; Music Educators Association; ROTC Drum & Bugle Corps.

**RELIGIOUS ORGANIZATIONS:** Kappa Delta Chi (students planning work in religious fields); Campus Christian Fellowship; Campus Crusade for Christ; Christian Science Organization; Baptist Student Movement; Canterbury Club (Episcopal); Disciple Student Fellowship; Lutheran Student Move-



ment; United Methodist Student Movement; Newman Club (Roman Catholic); Westminster Fellowship (Presbyterian).

**HONOR GROUPS:** 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; Alpha Phi Omega—National Service Fraternity; Chi Beta Phi—National Science Society; D-Rho D-Theta—Engineering; Eta Mu Pi—National Retailing Fraternity; Eta Sigma Phi—Classical Society; Fagus—Leadership for Junior and Senior Women; Fourth Estate—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; 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; 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.

**SPECIAL INTEREST AND PROFESSIONAL GROUPS:** Alpha Delta (Advertising); Alpha Beta Alpha; Alpha Sigma Eta Alpha (Speech Pathology); American Chemical Society; American Institute of Physics; Future Teachers of America; German Club; Home Economics Club; International Relations Club; Lambda Tau Alpha Society (Medical Technology); Le Cercle Francais; Marshall Classical Association; Marshall University Engineering Association; Marshall University 4-H Club; Marshall Chapter of Young Americans for Freedom; Marshall Art and Cinema Society; M. U. Chess Club; M. U. Action Committee of F.R.E.E.; Philosophical Society; Pershing Rifles—Military Science; Pershing Ruffles; Pre-Law Fraternity; Physical Education Majors Club; Science Council; Speakers Bureau; Student Education Association; Student Nurses Association; Students for Democratic Ideals; Students for a Democratic Society; Veterans Club; Women's Recreation Association; Young Democratic Club; Young Republican Club; WMUL Radio Club.

**NON-GREEK SOCIAL:** Independent Student Association (men and women); Cavaliers (men).

**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 and Zeta Beta Tau.

**GREEK INTEREST:** Crescent Club, Little Delta Iotas, Little Sisters of Minerva, Sisters of The Golden Heart, Order of Diana, Daughters of The Crimson Rose, Little Sisters of the Talisman: Rose.

# Scholarships and Loans

Applications for loans or scholarships may be secured by the following procedure:

**FRESHMEN:** Must contact their high school counselor and secure American College Testing Family Financial Statement. Each student who applies should have also taken the ACT Test and have been accepted for admission to Marshall University. Scholarship and other financial needs will be analyzed from the information furnished on the above statement. All supporting information should be sent directly to the Financial Aid Office. All applications should be filed prior to March 1.

**ENROLLED STUDENTS** must contact the Financial Aid Officer and secure their applications for financial assistances. They must have all applications returned prior to March 1.

Announcements of awards will be made in early spring of each year.

Applications for loans or scholarships are made to the financial aid officer.

The availability of listed scholarships and loans constantly changes, and in general, a student should not apply for a specific scholarship. Consideration is given each applicant according to the rules of the University and specifications of the loan or scholarship grant involved. Scholarships are generally outright grants of money while loans are to be repaid in accordance with the wishes of the donor. The loan funds and scholarship grants listed below are administered by the Student Aid Executive Board of the University unless otherwise stated. The Student Aid Executive Board consists of the dean of student affairs, the associate deans of students, three faculty members and the financial aid officer, ex-officio.

## SCHOLARSHIPS

**ALLIED CHEMICAL CORPORATION SCHOLARSHIP**—Awarded to an outstanding undergraduate male student majoring in Chemistry who is a citizen of the United States or Canada and is a resident of Lawrence County, Ohio, Boyd County, Kentucky, or Cabell County, West Virginia. Selection is based on intellectual capabilities, scientific ability, breadth of interests, and leadership qualities.

**AMERICAN BUSINESS WOMEN'S ASSOCIATION, JEWEL CITY CHAPTER SCHOLARSHIP**—A scholarship of \$230 per year awarded each year to an outstanding graduate of one of Huntington's city schools.

**LLOYD M. BARTLETT MEMORIAL SCHOLARSHIP**—Income earned by the principal of this scholarship fund is awarded to a worthy, needy high school graduate of a high school located in Braxton County, West Virginia.

**CLAUDE WORTHINGTON BENEDUM SCHOLARSHIP FUND**—This fund was established in 1956 for the benefit of worthy West Virginia high school graduates who are in need of financial assistance and meet the scholarship and other requirements of the committee.



**JULIUS BROH MEMORIAL SCHOLARSHIP**—This fund provides \$150 annually for the assistance of worthy, needy students of journalism. It is not a loan, but a grant in pursuance of the wishes of the late Julius Broh as indicated by his initiation of this philanthropy in 1935. This living memorial, perpetuating the memory of Julius Broh, has been established by his widow, Mrs. Ruth J. Broh. The scholarship is administered by a journalism committee headed by Professor W. Page Pitt.

**GLORIA JOAN BROTHERS MEMORIAL SCHOLARSHIP**—Awarded to a student who has attended Marshall University for at least one full year and has attained a "B" average for the preceding year. Although need is not a primary factor, consideration is given to a student's financial situation.

**FRANCES C. BURGESS SCHOLARSHIP**—This scholarship was established in memory of Frances C. Burgess and is awarded to a worthy student.

**BUSINESS AND PROFESSIONAL WOMEN'S CLUB OF HUNTINGTON SCHOLARSHIP**—This scholarship is awarded to an outstanding young woman of good moral character, otherwise there are no restrictions.

**CABELL COUNTY COUNCIL OF PARENT-TEACHER ASSOCIATIONS SCHOLARSHIP**—This scholarship is in the amount of \$250 per year. The recipient must be a resident of Cabell County, must be enrolled in teacher training, and must submit an intent to teach in Cabell County upon graduation. The applicant should be a good student, but selection will be based primarily on financial need.

**CAMMACK PARENT-TEACHER ASSOCIATION SCHOLARSHIP** — Established in 1956. The recipient must be majoring in elementary education, be of good character, have a good academic record, and show promise of becoming a good elementary teacher.

**CHARLESTON NEWSPAPER AGENCY CORPORATION**—Annually provides a fund of \$200 for scholarship aid to journalism majors.

**CLASSES OF 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968 SCHOLARSHIPS**—These scholarships were established before the classes graduated to provide at least one semester of tuition for the recipient. The recipient should have been an all around high school student with a good academic standing and demonstrated financial need. The scholarship funds are derived from annual giving of class members to the Alumni Loyalty and Development Fund.

**COMMERCIAL PRINTING AND LITHOGRAPHING CO., INC., OF HUNTINGTON**—Annually provides \$400 in scholarship aid to journalism majors.

**SARAH AND NATHAN CORBIN SCHOLARSHIPS**—Established in 1965 by Corbin Ltd. and Quad Manufacturing Company. Four \$500 annual awards to be given to children or grandchildren of employees of the company.

**D-RHO D-THETA SCHOLARSHIP**—This scholarship was established in 1963 to be awarded each semester to a promising student who has completed at least one semester in engineering at Marshall University. The recipient, to be selected by the active membership of D-Rho D-Theta, must have an over-all average of 2.00 or better.

**TOM DANDELET SCHOLARSHIP FUND**—Mr. Joseph Silverman established this fund in 1957 to assist a Marshall University athlete who has demonstrated scholastic ability.

**EAST HUNTINGTON CIVIC CLUB SCHOLARSHIP**—Awarded by the dean of Applied Science to a student in nursing.

**ECONOMIC OPPORTUNITY GRANT PROGRAM**—Authorized under the Higher Education Act of 1965. This federal program enables students from low income families to secure grants ranging from \$200 to \$800 per year. The amount depends upon family contribution to a student's college expenses. Additional funds of \$200 per year will be awarded to those students who remain in the top half of their class.

**THE ENGINEERS CLUB OF HUNTINGTON SCHOLARSHIP**—A \$300.00 per year scholarship established by the Executive Committee of the Engineers Club in 1958. This scholarship is awarded by a committee made up of two members of the Marshall Engineering Faculty appointed by the dean of the College of Applied Science and subject to the approval of the Executive Committee of the Engineers Club.

The scholarship is granted to a student entering his junior or senior year. The recipient must be a deserving student having some need of financial aid and be making satisfactory progress toward an engineering degree.

**LILLIAN M. ENNIS MEMORIAL SCHOLARSHIP**—Miss Ennis, for 46 years a teacher in the schools of West Virginia, bequeathed the sum of \$5,000, the income from which is to be used "for scholarships for deserving students at Marshall University."

**FRED FLESHMAN SCHOLARSHIP FUND**—Three substantial scholarships established by the late Mrs. Eunice Fleshman in memory of her husband, Mr. Fred Fleshman. These scholarships provide one year grants for students who qualify on the following points: (1) Promise of outstanding usefulness in life as evidenced by character, ambition, record of contributions while in high school; (2) High school record; (3) Financial need. The scholarships may be renewed upon application provided original conditions are met.

**MR. AND MRS. CHARLES B. FORD MEMORIAL SCHOLARSHIP FUND**—The fund was established by Aubrey E. Ford as a memorial to his parents. Preference is given to pre-ministerial or educational students.

**W. R. FUGITT MEMORIAL SCHOLARSHIP FUND**—This scholarship was established in 1961 for boys of high academic standards in high school, with high moral and citizenship qualities, who do not have adequate finances with which to attend college. The boy must present personal letters of recommendations from three respected citizens of his community and a letter from his principal. The applicant's course of study must be of a substantial academic character leading to a degree.

**CONNIE B. GAY SCHOLARSHIP**—A \$300.00 annual scholarship to be awarded to a student from West Virginia interested in furthering his or her career in the radio industry.

- A. E. HARRIS SCHOLARSHIP—In honor of Dr. Harris, Dean of the Graduate School. The money from this scholarship is to be used for Graduate Students for emergency loans. The emergency loans are available in amounts up to \$100.00 for a period of ninety days, to meet legitimate college expenses.
- LOUISE FAY HAWORTH SCHOLARSHIP—Established in 1965 by Eloise Campbell Long in honor of the former head of the Voice Department. The award of \$300 annually is made to a voice student who has been approved by the music department chairman.
- HUNTINGTON ADVERTISING CLUB SCHOLARSHIP—The Advertising Club of Huntington offers \$150 annually to a student who is majoring in advertising. It is awarded upon the basis of scholarship and need.
- HUNTINGTON CIVIC LEAGUE SCHOLARSHIP—Established in January 1957; a sum of \$150 annually to be awarded to a deserving girl who plans to become a teacher.
- HUNTINGTON CLINICAL FOUNDATION, INC. SCHOLARSHIP FUND—The Huntington Clinical Foundation has made available to the students of Marshall University Department of Nursing two scholarships of \$250 each for deserving second-year students who are considered to be worthy of these scholarships, and who are in need of such aid in order to continue their studies.
- HUNTINGTON JUNIOR LEAGUE SCHOLARSHIP—A grant of \$250 to a needy student who shows future promise. There are no restrictions as to sex or area of study.
- HUNTINGTON KIWANIS CLUB SCHOLARSHIP—This is a scholarship in the amount of \$600 set by the Huntington Kiwanis Club to help a student who has demonstrated good scholarship, good moral character, and financial need.
- HUNTINGTON PUBLISHING COMPANY JOURNALISM SCHOLARSHIP—The Huntington Publishing Company provides a grant of \$200 a year for needy students in journalism who show promise in the profession. Administered by the Journalism Scholarship Committee.
- HUNTINGTON PUBLISHING COMPANY SCHOLARSHIPS—Two annual awards of \$1,000 each in drawing accounts for school expenses. Recipients can be male or female journalism students entering the senior year. Recipients are selected for professional proficiency and potential and must be residents of West Virginia. The scholarships are awarded to persons who have been full-time Marshall University students for two years. Students can not apply for this scholarship.
- HUNTINGTON TRUST AND SAVINGS BANK—A \$500.00 annual scholarship to be awarded to a student of banking. Must be from West Virginia.
- INTER-GREEK SCHOLARSHIP — The Interfraternity Council established a \$250.00 scholarship to be awarded to an outstanding member of either a fraternity or sorority.
- INTERNATIONAL NICKEL COMPANY, HUNTINGTON ALLOY PRODUCTS DIVISION, SCIENCE AND ENGINEERING SCHOLARSHIPS—INCO established scholarships



in 1956 to help alleviate the serious shortage of trained technical personnel in this geographical area, including teachers needed to teach technical subjects in high schools and colleges. The recipients must be legal residents of Cabell, Lincoln, Mason, Putnam or Wayne Counties and will be selected on the basis of demonstrated good scholarship, good moral character, and financial need. (Exception: Children of INCO employees are eligible regardless of residence.)

**JOHNSON MEMORIAL CHURCH SCHOLARSHIPS**—This fund of \$800 per year is granted to Marshall students majoring in music and singing in the church choir. It is administered by the Music Scholarship Committee.

**JUNIOR DEPARTMENT OF HUNTINGTON WOMAN'S CLUB**—This scholarship is awarded on the basis of financial need to a resident of West Virginia.

**JUNIOR DEPARTMENT OF HUNTINGTON WOMAN'S CLUB**—A \$200.00 scholarship to be given to a student from West Virginia who plans to become a teacher.

**ARTHUR BURKE KOONTZ SCHOLARSHIP FUND**—This fund was established in December 1956, in the amount of \$20,000, the income from which will be used to assist worthy resident students who are doing undergraduate work at Marshall University.

**JOSEPH AND STELLA KRIMSKY SCHOLARSHIP**—This annual award of \$100 is granted to a deserving Marshall University student of high scholastic standing.

**STELLA KRIMSKY MEMORIAL AWARD**—This award of \$100 is given annually to the music student who ranks highest in the following: scholarship, musical achievement, service to the University and community.

**IDA CALDWELL MCFADDEN MEMORIAL SCHOLARSHIP**—The fund was established in 1955 to provide an education for a young lady of Cabell County who would otherwise be denied a college education.

**MACHINERY INCORPORATED ENGINEERING SCHOLARSHIP**—This award was established in December 1957 by Machinery, Inc. of Charleston, West Virginia, in the amount of \$200 per semester. This scholarship is to be awarded to a worthy senior student of good moral character, who is a resident of West Virginia upon matriculation and who expects to pursue the field of engineering upon graduation. The final selection is made by a committee appointed by the donor.

**MARSHALL UNIVERSITY ENGINEERING ASSOCIATION SCHOLARSHIP**—This scholarship was established in 1964 to be awarded annually to a student who has completed a minimum of one semester in engineering at Marshall University.

**MARSHALL UNIVERSITY STUDENT GOVERNMENT SCHOLARSHIPS**—The Student Government of Marshall University awards four scholarships annually, one to a member of each class, on the basis of outstanding scholarship and leadership. Each award amounts to approximately \$115 per semester, which covers fees and tuition. Applications must be filed with the director of admissions by March 1. The scholarship is administered by a committee of the Student Government and a faculty adviser.



**MARSHALL FOUNDATION SCHOLARSHIPS**—Through the generosity of friends of the University, the Marshall Foundation provides scholarships ranging from \$100 to \$700 a year. Donors to this fund include: The American Association of University Women, Huntington Branch; Kate Edwards Berry Memorial Scholarship; East Huntington Civic Club; Science Talent Search; A Charleston Alumnus.

**MEDICAL TECHNOLOGY SCHOLARSHIPS**—(1) Elk's Club and (2) Huntington Lions Club Auxiliary. These scholarships are used to aid full-time students enrolled in the study of medical technology.

**MUSICAL ARTS GUILD, INC., SCHOLARSHIP**—A scholarship fund established in 1967. Student must be a sophomore, junior, or senior at Marshall University, having maintained a 2.0 average to date of award and shall be a vocal music student. The student is not required to sing with Musical Arts Guild, Inc., but is urged to do so. The award is made by the music department of Marshall University.

**NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION ENGINEERING SCHOLARSHIP**—This scholarship in the amount of \$500 per year was established in May 1967 by the West Virginia-Ohio Valley Chapter of the National Electrical Contractors Association, Inc. It is to be awarded to a junior or senior working toward the degree of Bachelor of Engineering Science in the field of electrical and mechanical engineering, who is among those of higher scholastic standing in this group, who is in need of financial assistance, and who has a permanent residence within the Chapter jurisdiction which includes most of West Virginia, eastern counties of Ohio and northeastern counties of Kentucky.

**NATIONAL SCIENCE FOUNDATION SCHOLARSHIP**—Awarded to an undergraduate in Teachers College majoring in math, chemistry, or physics.

**A. T. PROCTOR MEMORIAL SCHOLARSHIP**—This fund was established in August 1956, by the Proctor Community Center, Inc., in the approximate amount of \$10,000, the income of which is used to assist bona fide resident students who are taking undergraduate work at Marshall University in order to prepare for the ministry, director of religious education, or some form of religious work. In return for the scholarship the recipient will be required to organize and operate a program of activities for children in the community surrounding the Marshall University campus where the Proctor Community Center formerly carried on such significant work.

**RANSON-CURRY-GALLAWAY-HEREFORD SCHOLARSHIP**—An annual award of \$500 to a male sophomore majoring in Speech. Applicants are screened by the board of donors.

**GERTRUDE ROBERTS SCHOLARSHIP IN EDUCATION**—The Cabell County Classroom Teachers Association has established a scholarship in honor of the late Miss Gertrude Roberts, founder of the Classroom Teachers Association in West Virginia. This scholarship provides tuition and activity fees for a student in Teachers College during the junior and senior years in college. Selection will be made by the Executive Board of the Cabell County Classroom Teachers Association.

**ROTARY SCHOLARSHIP FUND**—The Rotary Club of Huntington has established a scholarship for use at Marshall University. The maximum amount of such yearly scholarship is \$200. To be eligible for such scholarship, an applicant must be a bona fide resident of Cabell County or that part of Wayne County lying within the city limits of Huntington, West Virginia. He must be physically and mentally capable of completing his proposed course of study and reliable as to character and moral responsibility.

**FRANCIS A. SCOTT SCHOLARSHIP**—An annual award of \$1,000 to a pre-medical student or students. Any pre-medical student may apply.

**C. I. THORNBURG CO. SCHOLARSHIP**—The C. I. Thornburg Co. established a scholarship fund in 1962 in the amount of \$1,000. Fifty per cent of the fund is used for academic scholarships and the remainder for athletic scholarships.

**TRINITY EPISCOPAL CHURCH SCHOLARSHIPS**—This fund of \$1,000 per year is granted Marshall students majoring in music and singing in the church choir. It is administered by the Music Scholarship Committee.

**WEST VIRGINIA ASSOCIATED GENERAL CONTRACTORS SCHOLARSHIP**—This scholarship was established in 1960 by the Associated General Contractors of West Virginia, Incorporated, in the amount of \$300 per year. It is to be awarded to a deserving student in Civil Engineering, not a freshman and preferably a senior, who is a scholar and also has some need of financial assistance. The selection of the recipient will be by recommendation of the chairman of the Department of Engineering with approval by the dean of the College of Applied Science.

**WEST VIRGINIA BANKERS ASSOCIATION SCHOLARSHIP**—Established in 1967 for those students majoring in banking. Grades and other requirements are necessary to qualify. Applicants should contact the Financial Aid Officer for further details.

**WEST VIRGINIA BOARD OF EDUCATION SCHOLARSHIPS FOR ELEMENTARY AND SECONDARY EDUCATION**—The West Virginia Board of Education offers five four-year scholarships for students in elementary education and five four-year scholarships in secondary education. These scholarships are awarded on the basis of scholarship, interest in becoming a teacher in the elementary and secondary schools, and financial need. Each scholarship carries financial assistance to the extent of all payments of tuition and fees for a period of four years. Prospective students who are interested in being considered for one of these scholarships should make application to the dean of men on or before April 15.

**WEST VIRGINIA BOARD OF EDUCATION COLLEGE GENERAL SCHOLARSHIPS**—A number of general scholarships, each of which constitutes waiver of tuition and registration fees.

**WEST VIRGINIA BOARD OF EDUCATION SCHOLARSHIPS FOR FOREIGN STUDENTS**—Scholarships for foreign students who meet the requirements of the University are granted by the Student Aid Executive Board of the University with the approval of the West Virginia Board of Education. A total of five scholarships may be granted which include waiver of tuition and registration fees.

**WEST VIRGINIA CONSUMER FINANCE ASSOCIATION SCHOLARSHIP**—The recipient of this scholarship must be a banking and finance, or business management major and a resident of West Virginia.

**WSAZ RADIO AND TELEVISION SCHOLARSHIPS**—Two scholarships to be awarded to juniors or seniors in the amount of tuition and books. A work program with the donor whereby they earn additional college expenses as they learn.

### LOAN FUNDS

**CLAUDE WORTHINGTON BENEDUM SCHOLARSHIP LOAN FUND**—The Claude Worthington Benedum Foundation in 1955 established a scholarship loan fund with an original gift of \$1,000. Income from this fund is loaned to bona fide residents of West Virginia who are in need of financial assistance and who have proven themselves outstanding students. All loans must be repaid upon such terms and conditions as prescribed by the Student Aid Executive Board.

**ALEX BOOTH SCHOLARSHIP LOAN FUND**—Established by the Marshall Secondary class of 1919 in memory of Alex Booth. Preference is given to college juniors who are in need and have a satisfactory scholastic record.

**BROH MEMORIAL LOAN FUND**—Established in 1956, in the amount of \$3,000, the fund is used to make loans to needy students who are of good moral character, have an aptitude for learning and who show future promise and success.

**BUFORD CHAPTER, DAUGHTERS OF THE AMERICAN REVOLUTION—MRS. JAMES LEWIS CALDWELL MEMORIAL FUND**—As a memorial to her mother, Mrs. Mary O'Bannon Smith Caldwell, Mrs. Charles Wellington Watts established in 1928 a fund of \$400 annually to 1934. The fund is now administered by the Buford Chapter, D.A.R. In the awarding of the loans, preference is given to junior and senior students who have established high scholarship records.

**BUFORD CHAPTER, DAUGHTERS OF THE AMERICAN REVOLUTION—EMERGENCY LOAN FUND**—A fund established in 1959 from which worthy students may be granted short-term emergency loans.

**JOHN D. DRINKO LOAN FUND** — Established by Mr. Drinko, a Marshall Alumnus, to be used for loans to needy students.

**LUCILLE DRUEN MEMORIAL**—In honor of their classmate, Lucille Druen, the members of the Home Economics Club of Marshall University of the year 1926 raised a fund of \$725. This money is to be loaned to worthy students at 3 per cent interest. The income is to be used as a gift scholarship to stimulate the interest of high school students in West Virginia in home economics.

**ENGINEERS CLUB OF HUNTINGTON EMERGENCY LOAN FUND**—The Engineers Club of Huntington maintains an emergency loan fund available to engineering students at Marshall University. The approval of the chairman of the Engineering Department and president of the Engineers Club is required. This emergency fund is loaned on a short time basis.



- FARMER BILL CLICK EMERGENCY LOAN FUND**—Established in 1968 with \$1,000 to be used for emergency purposes by students from eleven counties of the tri-state area to assist with college expenses.
- GENERAL LOAN FUND**—A general emergency loan fund is available for amounts up to \$100 for 90 days for legitimate college expenses.
- GREEK ACTIVATION LOAN FUND**—The purpose of this fund is to loan money to any pledge in good standing who needs money for activation for his or her organization.
- ROBERT KILGORE GRIMMETT STUDENT LOAN FUND**—Established in 1959 by Mr. and Mrs. R. S. Kilgore in memory of their grandson. \$1,000 is loaned to a Presbyterian student planning to go into full-time church work, or to a student of another religious preference preparing for the same vocation.
- WADE HAMPTON AND HESSIE KIRK HAMPTON MEMORIAL EMERGENCY LOAN FUND**—A fund established in 1960 by the Hampton families in memory of their parents. The loan is available on an emergency basis, and with interest, to any Marshall student who is a citizen of the United States. Preference is given to students whose parent is or was employed in a coal mine.
- HOLBROOK LOAN FUND**—Established by Dr. Thomas J. Holbrook for loans to students majoring in nursing.
- HOMEMAKER'S CLUB OF GARDEN FARMERS**—This organization contributes funds for matching funds to assist students under the National Defense Student Loan Program.
- HUNTINGTON CLINICAL FOUNDATION, INC. STUDENT LOAN FUND**—The Huntington Clinical Foundation, Inc., has provided an emergency loan fund of \$1,000 to the Marshall University Department of Nursing Education. This fund is to be used to benefit deserving students who require some financial assistance in order to finish the course.
- LILLIAN C. ISBELL LOAN FUND**—This fund has been made available by friends of Miss Isbell to be loaned to students who wish to enter the Elementary field of teaching.
- JOHN P. LIPSCOMB, JR. MEMORIAL FUND**—In memory of Captain John P. Lipscomb, Jr., a graduate of the class of 1941, the sum of \$500 was made available on November 3, 1944, to assist worthy students and veterans of World War II. Captain Lipscomb, an army pilot, was killed in action in France on July 31, 1943.
- LOGAN COUNTY EDUCATIONAL TRUST FUND**—Contributions by this organization will be used as matching funds for the National Defense Student Loan Program for those students attending Logan Branch and Logan County students.
- WILLIAM LEWIS MILLER MEMORIAL LOAN FUND**—Established in 1967 by friends of William Lewis Miller for students majoring in speech and speech therapy.
- NATIONAL DEFENSE EDUCATION ACT LOANS**—The National Defense Education Act of 1958 provides federal assistance to needy students at low interest rates. Loans may be made up to \$1,000 per year to a maximum



of \$5,000 in five years. Interest is charged at 3 per cent beginning one year after graduation, and recipients are allowed ten years in which to repay the loans. Special consideration is given students with superior academic backgrounds who (1) express a desire to teach in elementary or secondary schools, or (2) indicate superior capacity or preparation in science, mathematics, engineering, or a modern language.

**FRED L., J. W. AND WILLIAM C. PERRY LOAN FUND**—Mrs. Robert S. Kilgore established a loan fund in the amount of \$1,000 for pre-law students in memory of her father and brothers who were local attorneys. All applications are processed through the Financial Aid Office.

**OCEANA FUTURE HOMEMAKERS OF AMERICA**—Annual contributions from this organization are used for matching funds for students from Wyoming County.

**MOINA MARTHA PRATOR FUND**—Dr. Moina Prator, professor of geography, who died in July, 1930, provided a bequest of \$1,000 which is held in trust and the proceeds of which are available to worthy girls who require assistance in obtaining a college education.

**WALTER C. PRICE MEMORIAL LOAN FUND**—This fund was established by Mrs. Walter C. Price in memory of her husband in the amount of \$250 to be used as a loan to students of good moral character, superior academic ability and financial need.

**ROTARY ANN CLUB OF HUNTINGTON, WEST VIRGINIA, EMERGENCY LOAN FUND**—This loan fund was established for needy West Virginia girls in good standing academically, who are at least second semester freshmen at Marshall University.

**ROTARY STUDENT LOAN FUND**—The Rotary Club of Huntington has established a student Loan Fund which permits an eligible male student to borrow a maximum of \$300 in any one school year. An applicant for a loan must submit evidence of the following qualifications: He must be a bona fide resident of Cabell County or that part of Wayne County lying within the city limits of Huntington, West Virginia. He must be physically and mentally capable of completing his proposed course of study and reliable as to character and moral responsibility. He must sign the prescribed promissory note for the loan.

**MYRTLE ROUSE LOAN**—The Home Economics Alumnae Association of Marshall University founded the Myrtle Rouse Loan Foundation in 1958 in honor of Mrs. C. A. Rouse, former chairman of the Department of Home Economics at Marshall University. The recipient must be a home economics major, in any class, and have a 2.5 average in all subjects.

**MARGARET SCHULZE MEMORIAL FUND**—Established in 1967 for juniors and seniors in memory of Mrs. Edna Margaret Schulze Peters and Mrs. Margaret Schulze.

**D. B. SMITH MEMORIAL FUND**—The sum of \$1,000 is now in trust at The First Huntington National Bank. The president of The First Huntington and the president of Marshall University are trustees. The income from the trust is to be used in assisting worthy students.

**THE HUGH D. AND ELIZABETH G. STILLMAN SCHOLARSHIP FUND**—A scholarship fund established by contributions of fellow employees of the Appalachian Electric Power Company. These funds are invested and the dividends are to be used as matching funds for the National Defense Student Loan Program. Employee dependents of the Appalachian Electric Power Company will be given assistance under this program.

**H. GRESHAM TOOLE MEMORIAL SCHOLARSHIP**—This scholarship is restricted to senior students majoring in history. Students are to be recommended by the Chairman of the History Department.

**LOAN FUND OF THE WOMAN'S CLUB OF HUNTINGTON**—This loan fund was established in December 1961, by the Woman's Club of Huntington. A maximum loan of not more than \$500 may be made available to a worthy young woman, resident of West Virginia, who deserves and needs financial assistance. Such a loan may be granted to University juniors and seniors who are candidates for a degree from Teachers College. In exceptional cases, the loan may be made to graduate students.

In 1962 the art department of the Woman's Club of Huntington established a separate loan fund of \$510.75 to be used in assisting art students from West Virginia.

### **Scholarships Awarded by Donors**

Details about these scholarships are available from the individual or organizations listed below, not from the Financial Aid Officer.

American Society of Women Accountants, Huntington Chapter  
1122 First Huntington National Building, Huntington, West Virginia

Advertising Club of Huntington  
Huntington, West Virginia

Alpha Phi Omega Scholarship at Marshall University  
c/o Dr. N. Bayard Green, Marshall University

Altrusa Club of Huntington  
1400 Charleston Avenue, Huntington, West Virginia

American Legion  
c/o American Legion Office, Huntington, West Virginia

Walter Arnold Junior Bowling School  
Mrs. Walter Arnold, 2102 Donald Avenue, Huntington, West Virginia

American Chemical Society, Union Carbide Corporation  
Charleston, West Virginia

American Electric Power  
2 Broadway, New York, N. Y.

Citizen's Scholarship Foundation of Beckley, West Virginia  
Box 491, Beckley, West Virginia

- Boone County Co-op Scholarship  
Miss Ida M. Thompson, P. O. Box 84, Madison, West Virginia
- Business and Professional Women's Club of Huntington  
Huntington, West Virginia
- Cabell County Council of P.T.A. Scholarship  
Mr. L. W. Krippene, 2007 Miller Road, Huntington, West Virginia
- Colonial Dames of America  
Mr. Herschel Heath, Department of History, Marshall University
- Credit Women's Breakfast Club of Huntington Scholarship  
932 Eleventh Avenue, Huntington, West Virginia
- Betty Crocker—awarded by General Mills Incorporated  
Minneapolis, Minnesota
- Tom Dandeleit Scholarship—awarded by Marshall Athletic Department  
Edgar O. Barrett, Director Athletic Department, Marshall University,  
Huntington, West Virginia
- Degree of Honor Protective Association—(Life Insurance Society)  
Degree of Honor Building, St. Paul, Minnesota
- Oakford Deitz Scholarship—awarded by Nicholas County Board of Education  
Summersville, West Virginia
- Alfred I. DuPont Institute of Nemours Foundation  
P.O. Box 269, Wilmington, Delaware
- Fagus—Women's Honorary at Marshall University for a graduate student  
President of Fagus, Marshall University
- Farmers Building and Loan Association  
Ravenswood, West Virginia
- Francis Ouimet Caddie Scholarship Fund, Boston, Massachusetts  
173 Milk Street, Boston, Massachusetts
- Fraternal Order of Eagles Memorial  
321 North Michigan Street, South Bend, Indiana
- William R. Fugitt Memorial—awarded by Athletic Department  
Mr. Edgar O. Barrett, Department of Athletics, Marshall University
- Harrison County Medical Society  
535 Empire Bank Building, Clarksburg, West Virginia
- Hawthorne Teachers' Association of New Jersey  
Municipal Building, Hawthorne, New Jersey
- Huntington East High School Band Boosters Scholarship  
c/o Huntington East High School, Huntington, West Virginia
- Huntington District Labor Council  
Huntington, West Virginia

- The Jackson Award—awarded by Sistersville High School  
Sistersville, West Virginia
- The Jewel City Chapter of American Business Women's Association  
Mrs. Evelyn Emory, 623 Tenth Avenue, Huntington, West Virginia
- Journalism Scholarships—a) Huntington Publishing Company, b) Julius Broh  
Memorial, c) Charleston Newspaper Agency Corporation and  
Commercial Printing and Lithographing Co., Inc., d) Nathan Baker  
Scholarship  
c/o Department of Journalism, Marshall University
- Junior Achievement of Grand Rapids, Michigan  
Room 400, Helmer Building, 21 Ottawa Avenue, N.W., Grand Rapids,  
Michigan
- Logan County Educational Trust Fund  
Logan, West Virginia
- Mars Club—Eta Mu Pi—Retail Scholarship  
Department of Business and Economics, Marshall University
- Scholarship for Teachers of Mentally Retarded Children—awarded by  
Dr. Allen Blumberg in Department of Education, Marshall University
- Millcreek Township P.T.A. of Pennsylvania  
3580 West 38th Street, Erie, Pennsylvania
- Monarch Rubber Company  
Spencer, West Virginia
- Music Scholarships—a) Johnson Memorial United Methodist Church,  
b) Trinity Episcopal Church  
c/o Department of Music, Marshall University
- Department of Music Scholarship of Marshall University  
c/o Department of Music, Marshall University
- National Scholarship Service and Fund for Negro Students  
6 East 82nd Street, New York, New York
- National Honor Society of Man High School  
Man, West Virginia
- National Merit Scholarship Corporation  
1580 Sherman Avenue, Evanston, Illinois
- National Secretaries Association—Huntington Chapter  
c/o Mary D. Fullerton, 963 Washington Avenue, Huntington, West  
Virginia
- New Jersey State Department of Education Scholarship  
Trenton, New Jersey
- Pennsylvania Industrial Chemical Corporation of Chester, Pennsylvania  
Chester High School, Chester, Pennsylvania



- P.E.O. Educational Fund  
3700 Grand Avenue, Des Moines, Iowa
- Pepsi Cola Scholarship—awarded to a Miss West Virginia Pageant contestant
- Preiser Scientific Incorporated  
c/o Marshall University Chemistry Department
- Proctorville Junior Women's Club Scholarship  
Chairman of the Scholarship Committee, Proctorville, Ohio
- Retail Foundation of Huntington Scholarship  
Manager, Bradshaw-Diehl Department Store, Huntington, West Virginia
- Richwood High School Scholarship  
Richwood, West Virginia
- Rotary Club of Ceredo-Kenova  
Contact members of Rotary Club of Ceredo-Kenova, West Virginia
- S and H Foundation Scholarship  
The S and H Foundation, Incorporated, 114 Fifth Avenue  
New York, New York
- Spearhead Scholarship Fund—New York, New York  
Third Armored Division (Spearhead), APO 39, New York, New York
- Department of Speech of Marshall University  
c/o Department of Speech, Marshall University
- Student Government of Marshall University  
c/o Student Union, Marshall University
- Dr. Floyd S. Taylor Scholarship—for Ritchie and Wirt County Students  
c/o Mr. Harry M. Sands, Alumni Office, Marshall University
- United Daughters of the Confederacy  
Mrs. H. Grady Mathews, Second Vice President, 3536 Pine Street,  
Jacksonville, Florida
- Vinson High School P.T.A.  
Vinson High School, Huntington, West Virginia
- Westmoreland Coal and Virginia Coal and Iron Company  
General Manager, Westmoreland Coal Company, Clothier, W. Va.
- Whitlock Memorial Scholarship of Beckley, West Virginia  
c/o Woodrow Wilson High School, Beckley, West Virginia
- Woman's Club of Huntington String Major Scholarship  
c/o Music Department, Marshall University
- Women's Benefit Association Scholarship  
Port Huron, Michigan
- Xi Rho Chapter of Beta Sigma Phi Scholarship  
c/o Miss Lassa Hughes, Treasurer, 417 Wilson Court  
Huntington, West Virginia

# Teachers College

## PURPOSE

The preparation of teachers and school-service personnel constitutes the focus of Teachers College.

## THE OBJECTIVES OF TEACHER EDUCATION

The objectives of teacher education as determined by the faculty are:

(1) To prepare broadly educated teachers for all levels of education, knowledgeable in their teaching specializations and in the learning processes; who can think critically and function effectively as teachers and citizens in the culture of the present, and be equally able to adjust their teaching and citizenship activities to the needs of the culture of the future.

(2) To develop teacher preparation programs that are designed with the cognizance of the needs of students of our culture and times, and with anticipation and consideration of the needs of the future.

(3) To improve the teacher preparation programs through the use of the latest findings and research in the learning processes.

(4) To move forward the frontiers of knowledge, particularly in reference to education, teacher preparation and the learning processes.

## WHAT STUDENTS ENROLL IN TEACHERS COLLEGE

Students who want to become teachers and who feel they can attain the standards of academic and professional competency enroll in Teachers College. Such students pursue one of the curriculums under the direction of an advisor and the office of the academic dean. Students enrolled in other colleges may complete not more than three semester hours in education except for those students enrolled in the Rehabilitation Education Curriculum.

## MAXIMUM CREDIT PERMITTED TEACHERS INSERVICE

A total of twelve semester hours with a limit of six hours in one semester is the maximum credit allowed for work completed during any school year by a teacher inservice regardless of whether the courses are completed by correspondence, in extension, in residence, or in a combination thereof. Credit earned at another institution is also included under this regulation. Teachers should confer with their superintendents or personnel officers prior to enrolling.

## COURSES OFFERED BY CORRESPONDENCE, TELEVISION, RADIO AND SPECIAL EXAMINATIONS

Courses offered by correspondence, extension, radio, television, credit for military service, and credit by special examinations are accepted by

Marshall University for a maximum of not more than 28 semester hours providing courses in correspondence, television and radio are offered by institutions of higher learning accredited by a regional (North Central Association of Secondary Schools and Colleges) and/or a national (The National Council for Accreditation of Teacher Education) accrediting agency.

### THE CAMPUS LABORATORY SCHOOLS

The campus laboratory schools offer exceptional advantages for students entering upon the initial experiences in teaching. The supervising teachers are ever ready to assist the novice to grow toward teaching efficiency. The laboratory schools include kindergarten classes for four and five year old children, a six-year elementary school, and a three-year junior high school accredited by the North Central Association of Colleges and Secondary Schools.

In the laboratory school the prospective teacher spends one or more hours daily for one semester teaching groups of pupils. The limited internship helps the prospective teacher apply educational theory in terms of practical classroom situations. When the student gains competency in classroom techniques and has fulfilled course requirements, he or she may be certified as a teacher.

When the number of prospective teachers exceeds the capacity of the laboratory school the college students are assigned to the Cabell County schools for the laboratory experiences. The assignments are made by a university staff member and the school principals of the county.

### THE NURSERY SCHOOL

Children two and three years old may be admitted to the University's nursery school. The school, providing the latest in equipment and instructional facilities, is located on campus at 1636 Fifth Avenue and is the laboratory for Home Economics 303, Child Care and Development.

## PROFESSIONAL LABORATORY EXPERIENCES

### Pre-Student Teaching

All students must participate in activities which permit them to systematically observe children or youth and which permit them to study teaching-learning activities. The professional laboratory experiences are arranged in conjunction with regular required courses. The experiences are provided by the laboratory school, the public schools of the area and by non-school agencies in the community.

The nature and extent of the experience is planned by the staff to meet individual and group needs. Students who receive transfer credit for the professional courses must complete the pre-student teaching laboratory

experiences as a special non-credit assignment. Since the activity required with Education 319 is a student-teaching experience students may not enroll in this course while they are on academic probation.

### **September Experiences**

The faculty of the Department of Education recommends that all students in the Teachers College, either between the second and third years or between the third and fourth years, spend the opening week of school in an elementary or a secondary school near their homes. The faculty believes the experience provides students with a background not being provided through the activities of student teaching. Thus, the purpose of this experience is to give students an opportunity to observe and when possible to participate actively in some of the classroom and outside events during the first several days of a school year.

At present participation in the "September Experience" is voluntary. Students participating in this experience should secure from the office of the Director of Student Teaching a statement of its purpose which in turn should be presented to the principal of the school to be visited.

Students should ask the principal of the school visited to provide them with a statement describing the activities in which they have participated. If this statement is submitted to the office of the Director of Student Teaching, it becomes a part of the individual's records.

### **Student Teaching**

Students who expect to meet graduation requirements at Marshall must complete student teaching and the major portion of the professional courses here. If any of the courses are done elsewhere, arrangements must be made in advance.

Any candidate to be graduated with an A.B. degree from the Teachers College, and any applicant for a Professional Certificate who is to be recommended to the State Department of Education for said certificate by the dean of the Teachers College must complete at Marshall at least one course in student teaching at the level at which certification is requested.

Students who have had no experience in teaching before enrollment in any course in student teaching at Marshall must reserve one semester for a particular schedule of courses including student teaching. Only students with public school teaching experience at the level and/or in the subject for which certification is sought may enroll in student teaching in a summer session. A statement verifying the experience must be filed prior to the approval of the application.

Summer school student teaching is limited to the elementary level and to selected subject areas at the secondary level. Students planning to do student teaching in the summer should check with the Director of Student Teaching to verify the opportunities available.



For admission to student teaching students must have at Marshall University at least an average grade of "C" (2.00 quality point average) in:

- a. All courses completed.
- b. All courses in areas of teaching specializations.
- c. All courses in professional education.

It shall be the student's responsibility to insure that the above grade averages have been met prior to entering student teaching. Any student entering student teaching without the above grade averages will forfeit any right to receive credit in this area.

In order to enroll in student teaching students must file in the office of the Director of Student Teaching an application for permission to enroll for each course in student teaching. Applications must be completed by mid-term of the semester previous to enrolling for this experience.

An orientation period of nine weeks, including assigned readings and seminar, must precede student teaching. Two of these periods are scheduled each year and a student will not be admitted to student teaching prior to the completion of this orientation. Information concerning the dates of these periods will be provided for those filing applications.

An application for permission to enroll in the course in student teaching during the summer terms must be filed in the office of the Director of Student Teaching nine weeks prior to the beginning of the summer session.

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

Students are assigned to public schools which agree to provide the student teaching experiences for Marshall University. Not all teachers can qualify to supervise student teachers and the large number of students in the program requires that many students be assigned to Kanawha County, Wayne County, Logan County, Cabell County and other selected schools. In most cases the assignment will be made on the basis of the date of the filing of the application but in all cases the assignment rests with the Director of Student Teaching. Students who apply and are assigned a student teaching position but who do not complete the assignment may not receive a priority date for a future assignment.

### **SCHOLASTIC REQUIREMENTS FOR GRADUATION**

Students completing course requirements for a Professional Certificate valid for teaching in secondary schools are required to have at least an average grade of "C" for all courses completed, for courses in teaching fields, and for courses in education.

Students completing course requirements for the various curriculums leading to the Professional Certificate valid in elementary schools must have at least an average grade of "C" for all courses completed, for fields of specialization, and in courses in education, including at least a grade of "C" in student teaching.

Transfer students must earn an over-all "C" average on courses completed at Marshall University before being recommended for graduation or certification. They must also meet the grade requirements as they are outlined in the previous paragraphs.

All students must complete the National Teacher Examinations during the senior year. Students must complete the Common Examinations and the Teaching Area Examination. Applications to take the Examinations must be filed in the Teachers College Office at least five weeks prior to the date of the Examinations. The Examinations are administered three times during the year. The filing of the application rests with the student.

## TEACHERS COLLEGE CURRICULUMS

Freshmen entering Teachers College after September 1964, must meet the new requirements established for curriculums in teacher education. All others have until June 1, 1969, to complete their programs. Those who do not complete a program by that date must complete the requirements as outlined in this catalog.

Teachers College students who complete one of the four-year curriculums, and meet all requirements as to quality points and residence receive the Bachelor of Arts (A.B.) degree. The completion of any of the four-year teaching curriculums automatically carries with it completion of requirements for the appropriate Professional Certificate for teachers valid in West Virginia.

The endorsements upon the certificate will indicate the level and subjects which may be taught. Endorsements may be added in elementary education (grades 1-9), secondary education (grades 7-12), or for both levels (grades 1-12). The Rehabilitation Education Curriculum does not meet professional teaching requirements.

**ELEMENTARY TEACHERS:** In addition to the indication of the level to be taught elementary teachers must complete at least one subject specialization. See the Program for Elementary Teachers for further information.

**SECONDARY TEACHERS:** Individuals preparing to teach in grades 7-12 must follow the plan specified under each major subject heading in addition to completing the general requirements as listed for secondary (7-12) teachers. Students should consult their advisers for assistance in selecting teaching areas.

**SPECIAL PROGRAMS:** Teachers of art, music, foreign languages, physical education and for school services in speech correction may teach in grades 1-12 by completing the appropriate curriculums outlined. The general

requirements for each program are listed below. Specific subject and level requirements for early childhood, primary, elementary, mentally-retarded, speech correction, music and all secondary school teaching subjects are listed on pages 103 to 121. Specialization for grades 5-9 or 7-9 are found on pages 121 to 124.

Basic requirements for the A.B. degree are outlined below. Other requirements are to be found by referring to the information concerning level of teaching and areas of specialization.

### GENERAL REQUIREMENTS

	Elementary (1-9)	Secondary (7-12)
<b>ART</b>		
Art 112 .....	2	2
Art 113 .....	3	
Art 340 .....	3	
	<hr/>	<hr/>
Minimum hours required .....	8	2
<b>EDUCATION</b>		
Education 218-319 .....	6	6
Education 400 .....	4	
Education 406 .....	3	3
Education 443 .....	3	
Education 475 .....		4
Education, Methods in Teaching Field .....		2
Education, Student Teaching .....	8	8
	<hr/>	<hr/>
Minimum hours required .....	24	23
<b>ENGLISH</b>		
English 101-102 .....	6	6
English 203 .....	3	
English 300-301 .....	6	6
	<hr/>	<hr/>
Minimum hours required .....	15	12
<b>MATHEMATICS EDUCATION</b>		
Mathematics Education 101 .....	3	
Mathematics Education 201 .....	3	
Mathematics Education 300 .....	2	
Mathematics 110* .....		3
	<hr/>	<hr/>
	8	3

\*Secondary teachers of science and mathematics may substitute Mathematics 120 or 180 for this requirement.

**MUSIC**

Music 175 .....	2	2
Music 303 .....	2	
Music 370 .....	3	
	<hr/>	<hr/>
Minimum hours required .....	7	2

**PHYSICAL EDUCATION**

Physical Education 113-114 or Military Science ...	2	2
Physical Education 221 .....	2	
Physical Education 314 .....	2	
Physical Education 311 or 330* .....		1
	<hr/>	<hr/>
Minimum hours required .....	6	3

\*Not required of majors in physical education.

**SCIENCE**

Biological Science 201-202 or Physical Science 109-110 .....		8
Biological Science 201-202 .....	8	
Physical Science 109-110 .....	8	
	<hr/>	<hr/>
Minimum hours required .....	16	8

Note: Home Economics, Physical Education, Speech Correction and Rehabilitation Education majors must complete Biological Science 201-202.

**SOCIAL STUDIES**

Social Studies 104-105 .....	6	6
Social Studies 201-202 .....	6	6
Geography 317 .....	3	
Social Studies 303 .....	3	
History 311-312-313 .....	9	
	<hr/>	<hr/>
Minimum hours required .....	27	12

<b>SPEECH</b> 103 .....	3	3
Courses in area of specialization or subject field .....	14	60
	<hr/>	<hr/>
Minimum hours required for degree .....	128	128

Note: Of the 128 semester hours required as a minimum for graduation with the Bachelor of Arts degree no more than 28 semester hours may be completed in education courses. At least 45 semester hours of the total required for graduation must be in the 300-400 series.

**ELEMENTARY SCHOOL TEACHING**

This curriculum prepares one for teaching in a self-contained classroom and for teaching the area of specialization selected in any departmentalized school through grade 9.



**MINIMUM REQUIREMENTS FOR GRADUATION**

1. General requirements as listed on pages 102 and 103 for an A.B. degree and a professional certificate valid for grades 1-9.
2. An area of specialization selected from those listed on pages 121 to 124 for grades 5-9.

**EARLY CHILDHOOD EDUCATION**

This is a specialization for those who desire to teach in the nursery school, kindergarten or in grades 1-6 of the elementary school.

**MINIMUM REQUIREMENTS FOR GRADUATION**

1. General requirements as listed on pages 102 and 103 for an A.B. degree and a professional certificate valid for grades 1-9.
2. Specialized requirements:
 

Home Economics 303 .....	3 hours
Science Education 307 .....	3
Speech 250 and 418 .....	6
3. Professional requirements:
 

Education 367, 409, 410 .....	14
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Note: Education 409-410 are substitutes for Education 400-405 in the 1-9 program.

**MUSIC**

Completion of the program in music education prepares one to work in this subject area in grades 1-12.

**MINIMUM REQUIREMENTS FOR GRADUATION**

1. General requirements as listed on pages 102 and 103 for an A.B. degree and a professional certificate for grades 7-12 except for the professional education requirements.
2. Professional Education ..... 23 hours
 

Education 218-319 .....	6 hours
Music Education 338 and 340 .....	6
Education 405 and 450 .....	8
Education 406 .....	3
3. Music ..... 69
 

Applied Music, Major .....	14 hours
Applied Music, Minor .....	6
Appreciation, History, Literature .....	10
Music 122-123, 422-423	
Theory .....	22
Music 115-116, 215-216, 301, 316, and 320	
Major Ensembles .....	7
Techniques .....	4
Conducting .....	4
Music 380-480	
Music elective .....	2

## REHABILITATION EDUCATION

This program leads to a baccalaureate degree in Rehabilitation Education and prepares for work or additional specialized study in the field of rehabilitation or a related helping profession. This program does not qualify one for public school teaching.

1. General Teachers College requirements for secondary teachers except for professional education requirements. Biological Science 201-202 must be completed as the science requirement.
2. Professional requirements ..... 10 hours
 

Rehabilitation Education 306 .....	3 hours
Rehabilitation Education 406 .....	3
Rehabilitation Education 407 .....	4
3. Major requirements ..... 16 hours
 

Psychology 201 and 311 .....	6 hours
Sociology 200 and 409 .....	6
Zoology 315 .....	4
4. Electives in the major ..... 18 hours
 

These courses are to be selected with the approval of the advisor for Rehabilitation Education.

## SPECIAL EDUCATION CLASSES

This program leads to the baccalaureate degree and the professional certificate valid in grades 1-9 endorsed for teaching mentally retarded children.

### MINIMUM REQUIREMENTS FOR GRADUATION

1. General requirements as listed on pages 102 and 103 for an A.B. degree and a professional certificate valid for grades 1-9. (With the consent of the Dean of Teachers College this program may be taken as a second field of specialization for a teacher in grades 7-12. In this case the individual may teach his subject specialization when the work for mentally retarded children is departmentalized.)
2. Education 435 ..... 3 hours
 

Special Education 420, 433, 440, 453 .....	12
Speech 418 .....	3

## SPEECH AND HEARING THERAPY

The curriculum in speech and hearing therapy prepares for school service in grades 1-12.

### MINIMUM REQUIREMENTS FOR GRADUATION

1. General requirements as listed on pages 102 and 103 for an A.B. degree and a professional certificate for grades 7-12 except for the professional education requirements. Biological Science 201-202 must be completed as the science requirement.

2. Professional Education .....	15 hours
Education 218-319 .....	6 hours
Education 435 .....	3
Education 406 .....	3
Special Education 420 .....	3
3. Psychology .....	12
Psychology 201, 223, 311, 340 .....	12
4. Speech and Hearing Therapy .....	39
Speech 240, 370, 424, 425, 426, 427, 429, 439, 460, 463, 468, 470	

### TEACHING ALL GRADES (1-12)

An individual may choose to prepare to teach at both the elementary and secondary levels. This will qualify him to teach in a self-contained classroom and in grades 7-12 in his area of subject specialization.

#### MINIMUM REQUIREMENTS FOR GRADUATION

1. General requirements as listed on pages 102 and 103 for an A.B. degree and a professional certificate in grades 1-9.
2. One subject specialization for teaching in grades 7-12.
3. In addition to those professional education requirements listed in the general requirements for grades 1-9 he must also complete methods and student teaching at the secondary level.

### SECONDARY SCHOOL TEACHING FIELDS

In addition to the general requirements as listed on pages 102 and 103, the student preparing for secondary school service must concentrate in one comprehensive field for grades 7-12 or two single fields for grades 7-12 or one single field for grades 7-12 and one designated for grades 7-9 as listed on pages 121-124. Some teaching areas restrict the selection of the second teaching field. Selection of second teaching fields should be made after consultation with the adviser.

The fields as described on the following pages are to be followed by all Marshall University students. Recommendation for teaching will be based upon the successful completion of these programs.

#### ART (Grades 1-12)

The course requirements listed below afford the greatest competency in the field of art. In addition to the program listed below the student must take a subject specialization in grades 5-9.

In addition to the above requisites students preparing to teach art in grades 1-12 shall complete Education 405.

Students with a teaching field in art education must satisfy the following requirements:

- a. 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.
- b. Present during the senior year a satisfactory exhibition of creative work.

Subject Groups	Hours	Hours	Hours
<b>MINIMUM REQUIREMENTS FOR GRADUATION</b>			<b>49</b>
1. Drawing .....		12	
Art 101-102, Drawing .....	6		
Art 203, Composition and Design in Drawing and Painting .....	3		
Art 406, Figure Drawing .....	3		
2. Design and Crafts .....		7	
Art 214, Introduction to Design .....	3		
Art 215, Advanced Design .....	2		
Art 305, Ceramics, or Art 306, Design in Metal, or Art 370, Graphic Processes ....	2		
3. Painting .....		9	
Art 350-351, Watercolor Painting .....	6		
Art 455-456, Oil Painting .....	6		
4. Sculpture .....		3	
Art 307, Sculpture .....	3		
5. Art History and Art Appreciation .....		8	
Art 112, Art Appreciation .....	2		
Art 401-402, History of Art .....	6		
6. Art Education .....		10	
Art 113, Art Education: Drawing, Painting ....	3		
Art 340, Art Education: Crafts .....	3		
Art 460, History and Philosophy of Art Education	3		
Art 475, Seminar .....	1		

#### ART (Grades 7-12)

(Requires a second field)

In addition to the course requirements listed below the student must also satisfy the following requirements:

- a. 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.



- b. Present during the senior year a satisfactory exhibition of creative work.

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			37
1. Drawing .....		9	
Art 101-102, Drawing .....	6		
Art 203, Composition and Design in Drawing and Painting .....	3		
2. Design and Crafts .....		5	
Art 214, Introduction to Design .....	3		
Art 305, Ceramics, or Art 306, Design in Metal, or Art 370, Graphic Processes ....	2		
3. Painting .....		6	
Art 350, Watercolor Painting .....	3		
Art 455, Oil Painting .....	3		
4. Sculpture .....		3	
Art 307, Sculpture .....	3		
5. Art History and Art Appreciation .....		5	
Art 112, Art Appreciation .....	2		
Art 401 or 402, History of Art .....	3		
6. Art Education .....		9	
Art 113, Art Education: Drawing, Painting ....	3		
Art 340, Art Education: Crafts .....	3		
Art 460, History and Philosophy of Art Education	3		

NOTE: Students who do student teaching in art must add Art 475. Seminar, 1 semester hour.

### BIOLOGY—See SCIENCES

### BUSINESS EDUCATION

(Comprehensive)

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			48
1. Business Administration 101, Introduction to Business .....		3	
2. Typewriting (Advanced) .....		4	
Business Administration 104, Intermediate Typewriting .....	2		
Business Administration 105, Advanced Typewriting	2		

3. Shorthand (Advanced) .....	6
Business Administration 202, Shorthand- Transcription .....	3
Business Administration 301, Intermediate Dictation ..	3
4. Accounting .....	9
Business Administration 215-216, Principles of Accounting .....	6
Business Administration 311, Intermediate Accounting .....	3
5. Business Mathematics .....	3
Business Administration 318, Business Statistics ..	3
6. Business Law .....	3
Business Administration 307, Business Law .....	3
7. Marketing .....	3
Business Administration 340, Principles of Marketing ..	3
8. Economics .....	9
Economics 241-242, Principles of Economics .....	6
Economics 310, Money and Banking .....	3
9. Office Procedures .....	6
Business Administration 404, Secretarial Training ..	3
Business Administration 421, Office Management ..	3
10. Office Machines .....	2
Business Administration 305, Secretarial Office Machines .....	2

## BUSINESS EDUCATION—SECRETARIAL STUDIES

(Requires a second field)

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			30
1. Business Administration 101, Introduction to Business .....		3	
2. Typewriting (Advanced) .....		4	
Business Administration 104, Intermediate Typewriting .....	2		
Business Administration 105, Advanced Typewriting ..	2		
3. Shorthand (Advanced) .....		6	
Business Administration 202, Shorthand Transcription .....	3		
Business Administration 301, Intermediate Dictation ..	3		

4. Accounting .....	6
Business Administration 215-216, Principles of Accounting .....	6
5. Business Mathematics .....	3
Business Administration 318, Mathematics of Business Statistics .....	3
6. Office Procedure .....	6
Business Administration 404, Secretarial Training ..	3
Business Administration 421, Office Management ..	3
7. Business Machines .....	2
Business Administration 305, Secretarial Office Machines .....	2

## CHEMISTRY—See SCIENCES

## ENGLISH

(Requires a second field)

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			42
1. Language .....		12	
English 101-102, Composition .....	6		
English 405, Study of the English Language .....	3		
English 475, Introduction to Linguistics .....	3		
2. Literature .....		21	
English 300, English Literature .....	3		
English 301, American Literature .....	3		
English 325, Shakespeare .....	3		
English 450 or 451, World Literature .....	3		
English 420, Senior Seminar in Literature .....	3		
English Electives (including at least one of the following) .....	6		
English 409, Milton, 3 hours			
English 411, Chaucer, 3 hours			
English 413, English Novel to 1800, 3 hours			
English 414, Nineteenth Century English Novel, 3 hours			
English 442, American Novel to 1900, 3 hours			
3. Speech .....		3	
Speech 103, Speech Fundamentals .....	3		
4. Latin or a Modern Language .....		6	

NOTE: A student may also prepare to teach English by completing the language arts curriculum.

**FOREIGN LANGUAGES****FRENCH**

(Requires a second field)

Subject Groups	Hours	Hours	Hours
<b>MINIMUM REQUIREMENTS FOR GRADUATION</b>			<b>30</b>
Required Courses .....		21	
French 121-122, First Year French .....	6		
French 223-224, Intermediate French .....	6		
French 314, Studies in Language Laboratory Techniques .....	3		
French 315-316, Advanced Conversation, Composition and Grammar .....	6		
Electives .....		9	
French courses in the 300-400 series .....	9		

**GERMAN**

(Requires a second field)

Subject Groups	Hours	Hours	Hours
<b>MINIMUM REQUIREMENTS FOR GRADUATION</b>			<b>30</b>
Required Courses .....		21	
German 101-102, First Year German .....	6		
German 203-204, Intermediate German .....	6		
German 314, Studies in Language Laboratory Techniques .....	3		
German 315-316, Advanced Conversation, Composition and Grammar .....	6		
Electives .....		9	
German literature courses in the 300-400 series ....	9		

**LATIN**

(Requires a second field)

Subject Groups	Hours	Hours	Hours
<b>MINIMUM REQUIREMENTS FOR GRADUATION</b>			<b>27-33</b>
Required Courses .....		9-15	
Latin 101-102, First Year Latin .....	6		
Latin 203-204, Intermediate Latin .....	6		
Classics 436, Roman Civilization .....	3		
Electives .....		18	
Latin courses in the 300-400 series .....	18		



## SPANISH

(Requires a second field)

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			30
Required Courses .....		18	
Spanish 101-102, Elementary Courses .....	6		
Spanish 203-204, Intermediate Courses .....	6		
Spanish 314, Studies in Language			
Laboratory Techniques .....	3		
Spanish 406, Hispanic Civilization .....	3		
Electives .....		12	
Spanish courses in the 300-400 series .....	12		

## GERMAN—see FOREIGN LANGUAGES

## HOME ECONOMICS (Vocational)

(Comprehensive)

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			54
Clothing and Textiles .....		8	
Home Economics 112, Clothing .....	3		
Home Economics 212, Textiles .....	2		
Home Economics 329, Advanced Clothing .....	3		
Food and Nutrition .....		12	
Home Economics 110, Food Selection and			
Preparation .....	3		
Home Economics 203, Meal Management .....	3		
Home Economics 210, Nutrition .....	3		
Home Economics 405, Quantity Food Service or			
413, Experimental Foods .....	3		
Home Management and Family Economics .....		8	
Home Economics 358, Principles of Management ..	2		
Home Economics 427, Home Management			
Laboratory .....	3		
Home Economics 461, The Family as Consumers ..	3		
Housing, Home Furnishings and Equipment .....		9	
Home Economics 351, Housing .....	3		
Home Economics 354, Home Furnishings .....	3		
Home Economics 420, Household Equipment .....	3		

Family Relations and Child Development .....	9
Home Economics 303, Child Development .....	3
Home Economics 415, Family Relationships .....	3
Home Economics 416, Prenatal and Infant Care ....	3
Supporting Subject .....	8
Chemistry 103-104, General Chemistry .....	8

NOTE: Students in home economics complete Education 218-319-406 and Home Economics Education 306-406-450 as a substitute for the professional education courses listed in the program for grades 7-12.

### JOURNALISM

(Requires a second field for grades 7-12)

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			27
Journalism 201, Reporting I .....	3		
Journalism 202, Reporting II .....	3		
Journalism 300, History of American Journalism ...	3		
Journalism 301, Copy Reading, Editing I .....	3		
Journalism 302, Copy Reading, Editing II .....	3		
Journalism 304 and 305, Editorial Writing or Journalism 308 and 309, Feature Writing ....	4		
Journalism 360, Photography .....	2		
Journalism 405, Ethics in Mass Communications ...	2		
Journalism 428, High School Publications .....	3		

A person may receive a Certificate in Journalism by completing Journalism 402, Law of Mass Communications, in addition to the courses listed above.

NOTE: A student may also prepare to teach journalism by completing the language arts program.

### LANGUAGE ARTS

(Comprehensive)

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			62
1. English .....	33		
Language .....	12		
English 101-102, English Composition, 6 hours			
English 405, Study of the English Language, 3 hours			
English 475, Introduction to Linguistics, 3 hours			
Literature .....	21		
English 300, English Literature, 3 hours			
English 301, American Literature, 3 hours			
English 325, Shakespeare, 3 hours			
English 420, Senior Seminar in Literature, 3 hours			
English 450 or 451, World Literature, 3 hours			

English Electives (including at least one of the following), 6 hours	
English 409, Milton, 3 hours	
English 411, Chaucer, 3 hours	
English 413, English Novel to 1800, 3 hours	
English 414, Nineteenth Century English Novel, 3 hours	
English 442, American Novel to 1900, 3 hours	
2. Speech .....	18
Speech 103, Speech Fundamentals .....	3
Speech 205, Argumentation and Debate .....	3
Speech 240, Voice Training .....	3
Speech 320, Oral Interpretation of Literature .....	3
Speech 403, Play Direction .....	3
Speech 450, The Direction of Speech Activities ....	3
3. Journalism .....	5
Journalism 428, High School Publications .....	3
Journalism 308 or 309, Feature Writing .....	2
4. Latin or a Modern Language .....	6

NOTE: Student teaching and methods of teaching must be completed in English.

### LATIN—see FOREIGN LANGUAGES

### LIBRARIAN (Public School)

(Requires completion of second field for grades 7-12)

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			24
Library Science 301, The Teacher and Library Service .....		3	
Library Science 310, Administration of School Libraries .....		3	
Library Science 315, Reference and Bibliography ..		3	
Library Science 320, Cataloging and Classification		3	
Library Science 404, Book Selection for Children ..		3	
Library Science 405, Book Selection for Adolescents		3	
Library Science 450, Library Practice (Field Work)		3	
Library Science Elective .....		3	
Library Science 401, History of Books and Libraries, or .....	3		
Library Science 410, Foundations of Mass Communications .....		3	

NOTE: Business Administration 103 or the equivalent is prerequisite to courses in library science.

### MATHEMATICS (Comprehensive)

Subject Groups	Hours	Hours	Hours
<b>MINIMUM REQUIREMENTS FOR GRADUATION</b>			<b>36</b>
All students must complete the mathematics placement examination. The score on this test determines the first course in which they enroll. Mathematics through solid geometry should be completed in high school.			
Mathematics 180-181, Freshman Mathematics . . . .	10		
Mathematics 220, Differential and Integral Calculus	4		
Mathematics 221, Integral Calculus . . . . .	4		
Mathematics 445, Probability and Statistics . . . . .	3		
Mathematics 448-449, Fundamental Concepts of Geometry . . . . .	6		
Mathematics 450-451, Fundamental Concepts of Algebra . . . . .	6		
Mathematics 335, Differential Equations, or 427, Ad- vanced Calculus, or 446, Theory of Statistics . . .	3		

### MATHEMATICS (Requires a second field)

Subject Groups	Hours	Hours	Hours
<b>MINIMUM REQUIREMENTS FOR GRADUATION</b>			<b>24</b>
All students must complete the mathematics placement examination. The score on this test determines the first course in which they enroll. Mathematics through solid geometry should be completed in high school.			
Mathematics 180-181, Freshman Mathematics . . . .	10		
Mathematics 220, Differential and Integral Calculus	4		
Mathematics 221, Integral Calculus . . . . .	4		
Mathematics 448, Fundamental Concepts of Geometry . . . . .	3		
Mathematics 450, Fundamental Concepts of Algebra . . . . .	3		

### HEALTH AND PHYSICAL EDUCATION (Requires a second field)

Subject Groups	Hours	Hours	Hours
<b>MINIMUM REQUIREMENTS FOR GRADUATION</b>			<b>37</b>
Theory . . . . .	25		
1. Foundations of Physical Education . . . . .	3		
Physical Education 118, Introduction to Health and Physical Education, 3 hrs.			



2. Health Education and Safety Education .....	8
Physical Education 220, Personal Hygiene, 2 hrs.	
Physical Education 221, Health Education, 2 hrs.	
Physical Education 222, First Aid, 2 hrs.	
Physical Education 422 or Safety Education 235 or 385 or 490, 2 hrs.	
3. Science .....	6
Physical Education 321, Kinesiology, 3 hrs.	
Physical Education 440, Physiology of Exercise, 3 hrs.	
4. Adapted Physical Education .....	4
Physical Education 322, Correctives, 3 hrs.	
Physical Education 310, Practicum for Physical Education 322, 1 hr.	
(Courses taken concurrently)	
5. Organization, Administration and Evaluation .....	3
Physical Education 410, Principles, Organization and Administration of Health and Physical Education, 3 hrs.	
6. Methods of Teaching Techniques .....	1
Physical Education 314 or 340 or 341 or 420 or 421 or 426 or 427	
Physical Education Activities .....	12
Individual and Dual Sports .....	6
Swimming—minimum of 1 hour required from the following courses: Physical Education 100, 205, 300, 403, 404	
Physical Education—minimum of 4 hours from the following courses: Physical Education 203, 207, 209, 210, 306, 309, 406, 409	
Rhythmic and Dance Activities .....	2
Physical Education 104, 304, 305, 330, 401, 405	
Team Sports .....	4
Physical Education 103, 108, 109, 110, 111, 112, 206	

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

Students who are veterans receive four semester hours credit for military  
training. This credit may be applied as follows:

Physical Education 222, First Aid .....	2 hrs.
Recreational Activities .....	4 hrs.
Team Sports .....	4 hrs.

It is suggested that these four hours be used as general electives rather  
than specific required courses in physical education.

## PHYSICS—see SCIENCES

## SAFETY EDUCATION

(Note: Approved as a third field of specialization or as a second field for a person completing a comprehensive program for grades 7-12)

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			17
1. Safety Education .....		11	
Safety Education 235, Introduction to Safety Education .....	3		
Safety Education 236, Traffic Law and Enforcement .....	2		
Safety Education 385, Traffic Safety and Driver Education .....	3		
Safety Education 490, Problems and Practice in Traffic Safety and Driver Education .....	3		
2. Physical Education .....		6	
(select from the following)			
Physical Education 222, First Aid .....	2		
Physical Education 403, Advanced Swimming .....	1		
Physical Education 404, Water Safety Instruction ..	1		
Physical Education 422, Prevention, Care and Treatment of Athletic Injuries .....	2		
Physical Education 482, Special Topics .....	1-3		

## SCIENCES

Note: Mathematics 120 and 122 or 180 are prerequisites for all courses in physics. All students must complete the mathematics placement examination. The score on this test determines the first course in which the student enrolls. Those who do not place in Mathematics 180 must take 120 as a prerequisite to Mathematics 180. Mathematics through solid geometry should be completed in high school.

## BIOLOGICAL AND GENERAL SCIENCE

(Comprehensive)

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			55-56
Biological Sciences .....		25	
Biological Science 201-202 .....	8		
Botany 415-416 .....	8		
Biological Science 306 .....	4		
Science Education 460 or 461 .....	1		
Zoology 212 .....	4		

Physical Sciences .....	23
Chemistry 101-102 or Chemistry 103-104 .....	8
Geology 200 .....	4
Physics 201-202-203-204 .....	8
Physical Science 400 .....	3
Electives .....	7-8
Zoology 407 or 315 .....	4
Botany 302 or 404 or 418 or Biological Science 482 .....	3-4

NOTE: A student who wishes to qualify for a specialization in chemistry, physics or biological science may omit elements of geology and astronomy, but will be required to complete a second specialization.

### CHEMISTRY AND GENERAL SCIENCE

(Comprehensive)

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			49
Biological Sciences .....		8	
Biological Science 201-202 .....	8		
Physical Sciences .....		16	
Geology 200 .....	4		
Physics 201-202-203-204 .....	8		
Physical Science 400 .....	3		
Science Education 460 or 461 .....	1		
Chemistry .....		25	
Chemistry 101-102 .....	8		
Chemistry 255-256 .....	10		
Chemistry 307 .....	3		
Chemistry 345 .....	4		

NOTE: A student who wishes to qualify for a specialization in chemistry, physics or biological science may omit elements of geology and astronomy, but will be required to complete a second specialization.

### CHEMISTRY AND MATHEMATICS

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			66
Biological Sciences .....		8	
Biological Science 201-202 .....	8		
Physical Sciences .....		9	
Physics 201-202-203-204 .....	8		
Science Education 460 or 461 .....	1		

Chemistry .....	25
Chemistry 101-102 .....	8
Chemistry 255-256 .....	10
Chemistry 307 .....	3
Chemistry 345 .....	4
Mathematics .....	24
Mathematics 180-181 .....	10
Mathematics 220-221 .....	8
Mathematics 448 .....	3
Mathematics 450 .....	3

### PHYSICS AND GENERAL SCIENCE (Comprehensive)

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			44
Biological Sciences .....		8	
Biological Science 201-202 .....	8		
Physical Sciences .....		16	
Chemistry 101-102 or 103-104 .....	8		
Geology 200 .....	4		
Physical Science 400 .....	3		
Science Education 460 or 461 .....	1		
Physics .....		13	
Physics 201-202-203-204 .....	8		
Physics 320 .....	3		
Physics 421 .....	2		
Physics Electives .....		7	
Recommended: Physics 314-315 .....	5		
Physics 300, 301, 302, 304, 305, 306, 307, 308, 309, 311 .....	2		

NOTE: A student who wishes to qualify for a specialization in chemistry, physics or biological science may omit elements of geology and astronomy, but will be required to complete a second specialization.

### PHYSICS AND MATHEMATICS

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			61
Biological Sciences .....		8	
Biological Science 201-202 .....	8		
Physical Sciences .....		9	
Chemistry 101-102 or 103-104 .....	8		
Science Education 460 or 461 .....	1		
Physics .....		13	
Physics 201-202-203-204 .....	8		
Physics 401 .....	3		
Physics 405 .....	2		



Physics Electives .....	7
Recommended: Physics 314-315 .....	5
Physics 304, 305, 308, 309, 311 .....	2
Mathematics .....	24
Mathematics 180-181 .....	10
Mathematics 220-221 .....	8
Mathematics 448 .....	3
Mathematics 450 .....	3

## SOCIAL STUDIES

(Comprehensive)

Subject Groups	Hours	Hours	Hours
MINIMUM REQUIREMENTS FOR GRADUATION			51
1. General Education .....		12	
Social Studies 104-105, Western Civilization in Its World Setting .....	6		
Social Studies 201-202, Fundamental Social Problems	6		
2. History .....		18	
History 311-312-313, American, 1492 to the Present	9		
History 321-322, European, 1492 to Present .....	6		
History 427, Russian, 19th and 20th Centuries, or History 375, Far Eastern .....	3		
3. Economics .....		6	
Economics 300, Survey of Economics .....	3		
Economics 342, Economic Development of the United States .....	3		
4. Geography .....		6	
Geography 203, General Economic Geography ....	3		
Geography 317, World Geographical Problems ....	3		
5. Political Science .....		3	
Political Science 201, American National Government .....	3		
6. Anthropology .....		3	
Anthropology 301, Cultural Anthropology .....	3		
7. Option .....		3	
Social Studies 303, West Virginia History, Geography and Government, or Political Science 202, American State Government .....	3		

SPANISH—see FOREIGN LANGUAGES

## SPEECH

(Requires a second field for Grades 7-12)

Subject Groups	Hours	Hours	Hours
<b>MINIMUM REQUIREMENTS FOR GRADUATION</b>			<b>33</b>
1. Speech Science .....		3	
Speech 240, Voice Training .....	3		
2. Public Address and Speech Education .....		11	
Speech 103, Speech Fundamentals .....	3		
Speech 202, Practical Public Speaking .....	2		
Speech 205, Argumentation and Debate .....	3		
Speech 450, The Direction of Speech Activities ...	3		
3. Oral Interpretation .....		3	
Speech 320, Oral Interpretation of Literature .....	3		
4. Speech Pathology and Audiology .....		3	
Speech 418, Communication Problems of School Children .....	3		
5. Dramatics .....		10	
Speech 210, Acting .....	3		
Speech 312-313, Play Production .....	4		
Speech 403, Play Direction .....	3		
6. Radio .....		3	
Speech 230, Introduction to Broadcasting .....	3		

NOTE: A student may also prepare to teach speech by completing the language arts program.

## SPECIALIZATION FOR TEACHING IN ELEMENTARY AND JUNIOR HIGH SCHOOLS

Elementary school teachers (1-9) must select one or more of the following specializations. Secondary school teachers (7-12) may select one or more specializations. For either certificate these specializations are valid for teaching through Grade 9 in departmentalized schools when other certification requirements have been met. Secondary teachers should consult the information describing their major teaching area for restrictions on selection of second teaching areas.

Field	Hours	Hours
<b>ART</b> .....		<b>28</b>
Art 101, Drawing .....	3	
Art 112, Art Appreciation .....	2	
Art 113, Art Education: Drawing and Painting ..	3	
Art 214, Introduction to Design .....	3	
Art 215, Advanced Design .....	2	
Art 340, Art Education: Crafts .....	3	
Art 350, Watercolor Painting .....	3	
Art 401-402, History of Art .....	6	
Art 455, Oil Painting .....	3	

<b>FRENCH</b> .....		<b>25</b>
French 121-122, First Year French .....	6	
French 223-224, Intermediate French .....	6	
French 241-242, Intermediate Oral French ....	4	
French 315, Advanced Conversation, Composition and Grammar .....	3	
French 327, 328, 435, 436 (select two) .....	6	
<b>GENERAL SCIENCE</b> .....		<b>34</b>
Biological Science 201-202 .....	8	
Biological Science 482 .....	3	
Chemistry 103-104 .....	8	
Physics 201-202-203-204 .....	8	
Geology 200 .....	4	
Physical Science 400 .....	3	
<b>GERMAN</b> .....		<b>24</b>
German 101-102, First Year .....	6	
German 203-204, Intermediate .....	6	
German 315, Advanced Conversation, Composition and Grammar .....	3	
Electives in German in 300-400 series .....	9	
<b>HOME ECONOMICS</b> .....		<b>24</b>
Home Economics 110, Food Selection and Preparation .....	3	
Home Economics 112, Clothing .....	3	
Home Economics 303, Child Care and Development .....	3	
Home Economics 358, Principles of Management	2	
Home Economics 415, Family Relationships ...	3	
Home Economics 440, Nutrition in the Home and School .....	3	
Electives: Select 7 hours from the following: Home Economics 203, 212, 329, 354, 400, 420	7	
<b>LANGUAGE ARTS</b> .....		<b>24</b>
English 101-102, English Composition .....	6	
English 203, Children's Literature .....	3	
English 300-301, English and American Literature	6	
English 405 or 475 .....	3	
Speech 103, Fundamentals of Speech .....	3	
Speech 250, Storytelling and Dramatization, or Speech 445, Children's Theatre .....	3	
<b>LIBRARIAN (Public School)*</b> .....		<b>18</b>
*Business Administration 103 or equivalent is prerequisite to courses in library science.		
Library Science 301, The Teacher and Library Service .....	3	
Library Science 310, Administration of School Libraries .....	3	

Library Science 315, Reference and Bibliography	3
Library Science 320, Cataloging and Classification	3
Library Science 404, Book Selection for Children, or Library Science 405, Book Selection for Adolescents .....	3
Library Science 450, Library Practice (not to be taken same semester as student teaching) ...	3
<b>MATHEMATICS .....</b>	<b>21</b>
Mathematics 120, Algebra .....	3
Mathematics 180-181, Freshman Mathematics ..	10
Mathematics Education 101, Mathematics for Elementary Teachers, I .....	3
Mathematics Education 201, Mathematics for Elementary Teachers, II .....	3
Mathematics Education 300, Teaching Arithmetic	2
<b>MENTAL RETARDATION (see program for grades 1-9 on page 105) .....</b>	<b>18</b>
<b>MUSIC (Vocal or Instrumental) .....</b>	<b>24</b>
Music 115-116, Elementary Theory .....	8
Music 175, Appreciation of Music .....	2
Instrumental Techniques or Vocal Techniques ..	2
Music 380, Conducting .....	2
Applied Music (Vocal or Instrumental) .....	4
Electives in Music .....	6
<b>PHYSICAL AND HEALTH EDUCATION .....</b>	<b>18</b>
Physical Education 118, Introduction to Health and Physical Education .....	3
Physical Education 220, Personal Hygiene ....	2
Physical Education 221, Health Education ...	2
Physical Education 222, First Aid .....	2
Physical Education 314, Materials and Methods for Elementary Schools .....	2
Safety Education 235, Introduction to Safety Education .....	3
Electives in Physical Education .....	4
To be selected from the areas required for a major in physical education. Selection must be planned and approved by the Department of Physical Education in advance of the enrolling in the electives.	
<b>SOCIAL STUDIES .....</b>	<b>30</b>
Social Studies 104-105, Western Civilization in Its World Setting .....	6
Social Studies 201-202, Fundamental Social Problems .....	6
Social Studies 303, West Virginia History, Geography and Government .....	3



Geography 317, World Geographical Problems ..	3	
History 311-312-313, American History .....	9	
Political Science 201, American National Government .....	3	
SPANISH .....		24
Spanish 101-102, Elementary Course .....	6	
Spanish 203-204, Intermediate Course .....	6	
Spanish 314, Studies in Language Laboratory Techniques .....	3	
Spanish 406, Hispanic Civilization .....	3	
Electives in Spanish in 300-400 series .....	6	
SPEECH .....		18
Speech 103, Speech Fundamentals .....	3	
Speech 240, Voice Training .....	3	
Speech 320, Oral Interpretation of Literature ..	3	
Speech 403, Play Direction .....	3	
Speech 418, Communication Problems of School Children .....	3	
Speech 450, Direction of Speech Activities ...	3	

# College of Arts and Sciences

## EDUCATION AND LIBERAL ARTS

In order 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 selfish 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 now 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.

### Organization

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.

Through the requirement of a minimum number of hours from each group, overspecialization is avoided, while through the allowance of a maximum number of hours in a particular group an opportunity is afforded for intensive study in closely related subjects.

### **Encouragement of Intellectual Exploration**

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. Audited courses cannot be repeated for credit.

### **Requirements of Degrees**

#### **THE BACCALAUREATE DEGREE**

A student registering in the College of Arts and Sciences may elect to receive one of the following 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.

### **Requirements for the 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) The maximum credit which may be earned in any of the divisions listed under "organization" is 72 hours for the A.B. degree and 84 for the B.S. degree.
- (3) Forty-eight hours must be earned in courses numbered 300-499 for all degrees.
- (4) Before admission to the junior year, a student must have a quality point average of 2.0 or higher on the work which was completed in the freshman and sophomore years. Students who have completed 58 or more hours, with a quality point average of less than 2.0 may not take courses in advance of the 200 series.

- (5) Candidates for the A.B. and B.S. degrees must earn at least 26 hours in a major subject (see, however, 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.
- (6) No more than six hours may be elected in the Department of Education by students in the College of Arts and Sciences.
- (7) The maximum amount of work which any student may take in a single department is 42 hours for the A.B. degree and 48 hours for the B.S. degree.

### 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 Journalism Department 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 113 and 114—2 hrs. or military science—8 hrs.



**SCIENCES****I. Natural and physical sciences**

Choose two from a, b, c, d, e.

a. Physics .....	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 ..... 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 113-114 or Military Science ..... 2 hrs.-8 hrs.****SCIENCES**

I. a. Physics .....	8 hrs.
b. Chemistry .....	8 hrs.
c. Biological Science 201-202 .....	8 hrs.

d. Geology 200 .....	4 hrs.
e. Mathematics 120 and 122, or 180 .....	5-6 hrs.

Total .....33-34 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 ..... 78-87 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 CURRICULUM

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

### TWO-YEAR COURSE

#### 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

\*If Physics is taken.

## 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
	<hr/> 16		<hr/> 16

Total hours must 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. Successful performance in the comprehensive examination to be taken at the end of the sophomore year, in the content of the student's major studies.
2. A successful exhibition of creative work to be presented by the student during his or her senior year.

Students in the College of Arts and Sciences may major in the fine arts and earn the A.B. degree by meeting the general and specific requirements and by taking 34-36 hours from the following courses in art:

	Minimum Hours
Art 101-102 Drawing .....	6
Art 406 Figure Drawing .....	3
Art 203 Principles of Drawing and Painting and Theory of Design .....	3
Art 350 Watercolor Painting .....	3
Art 455-456 Oil Painting .....	6
Art 307 Sculpture .....	3
Art 401-402 History of Art .....	6
Select 4 or 5 hours from the following group:	
Art 214 Design .....	3
Art 215 Advanced Design .....	2
Art 305 Ceramics .....	2
Art 306 Design in Metal .....	2
} 4-5	

Elect 3 or 4 additional hours from the following:			
Art 112	Art Appreciation .....	2	} 3-4
Art 202	Lettering .....	2	
Art 351	Watercolor Painting .....	3	
Art 360	Painting media .....	3	
Art 370	Graphics .....	3	
Art 404	20th Century Art .....	3	
Art 405	Art in America .....	3	

Minimum requirements ..... 34-36 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 315 or Biological Science 404 .....	8 hrs.
Additional hours in biological science, botany or zoology .....	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.



**B.S. DEGREE****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	Mathematics 122 .....	3
Physical Education 113** .....	1	Foreign Language .....	3
		Physical Education 114** .....	1
	14		17

**SECOND YEAR**

First Semester	Hrs.	Second Semester	Hrs.
Botany 415 .....	4	Botany 416 .....	4
Chemistry 101 .....	4	Chemistry 102 .....	4
Foreign Language .....	3	Foreign Language .....	3
English 300 .....	3	English 301 .....	3
Social Science .....	2-3	Social Science .....	3
	16-17		17

**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 200 .....	4
Social Science .....	3	Social Science .....	5
	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		
	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.

\*May be taken in first or second semester.

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

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

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.

The Curriculums Are:

**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.

**B.S. IN CHEMISTRY DEGREE:** This curriculum meets the minimum standards of the American Chemical Society. The student must meet the general 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) the following chemistry courses: 101-2, 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, Math 335, 427, or 430.

**ADVANCED PLACEMENT:** The Chemistry Department 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 101 and 102 while those scoring 3 on the examination are to be referred to the Chairman of the Chemistry Department for his decision as to whether credit for Chemistry 101 and 102 is to be given.

### B.S. IN CHEMISTRY CURRICULUM

#### FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 101 .....	4	Chemistry 102 .....	4
English 101 .....	3	English 102 .....	3
Mathematics 180 or 120 .....	5	Mathematics 181 or 180 .....	5
Physical Education 113 or Military Science .....	1-2	Physical Education 113 or Military Science .....	1-2
Foreign Language (e.g. German 101) .....	3	Foreign Language (e.g. German 102) .....	3
<hr/> 16-17		<hr/> 16-17	

## SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 255 .....	5	Chemistry 256 .....	5
Mathematics 220 or 181 .....	4	Mathematics 221 or 220 .....	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
	<hr/> 16		<hr/> 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 221 or English 300 or 301 .....	3-4	Social Science Elective .....	3
Social Science Elective .....	3	Chemistry, Physics or Math. Elective .....	3
Physics Electives .....	3	Speech 305 .....	3
	<hr/> 15-16		<hr/> 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/> 17		<hr/> 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 purposes of the Department of Economics are:

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 economics problems and issues and to deepen their under-

standing of the operation of the economies of the U.S. and other countries. Economics deals with such subjects as business fluctuations, distribution of resources and income, international trade, managerial decision-making, industrial relations, and the growth of national income and welfare.

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

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

Majors may fulfill the general and specific requirements for either the B.A. 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 Business Administration 318. A minor may be earned by completing 12 hours in economics.

## ENGLISH

English 101 and 102 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., B.S., and B.B.A. degrees and are prerequisite to all subsequent 300-400 level courses in English.

Requirements for the English major: English 101-102, 6 hrs.; 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.

## COOPERATIVE PLAN OF STUDY IN FORESTRY

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.

### FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 101 .....	3	English 102 .....	3
Mathematics 120 or 180* .....	3-5	Mathematics 122 or 181 .....	3-5
Chemistry 101 .....	4	Chemistry 102 .....	4
Biological Science 201 .....	4	Biological Science 202 .....	4
		Speech 103 .....	3
	14-16		17-19

\*Sufficient mathematics to include calculus is recommended.

## 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 .....	4	Botany 316 .....	4
Social Science*** .....	3	Social Science*** .....	2-3
	<hr/> 17		<hr/> 16-17

## THIRD YEAR

First Semester	Hrs.	Second Semester	Hrs.
Botany 315 .....	4	Botany 318 .....	4
Chemistry 217 .....	5	Foreign Language** .....	3
Foreign Language** .....	3	Physical Education 114 .....	1
Physical Education 113 .....	1	Social Science*** .....	4-5
Social Science*** .....	3	Biological Science 404 .....	4
	<hr/> 16		<hr/> 16-17

\*\*German or French.

\*\*\*Must include economics. The remaining social science courses must be chosen under the guidance of the faculty advisor.

## GEOGRAPHY

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

Required in this group .....	15 hrs.
Geography 203, 305, 317, 320, 405.	
Required in this group .....	3 hrs.
Geography 309, 408.	
Required in this group .....	3 hrs.
Geography 429, 430.	
Required in this group .....	6 hrs.
Geography 302, 315, 401, 403, 409, 412, 413.	
Total required .....	<hr/> 27 hrs.

## GEOLOGY

Geology acquaints the student with the nature of the earth, the physical forces which operate upon it, and the age-long development of life, and provides an understanding of the rocks and minerals. As a profession, training in geology may lead to educational or industrial pursuits of wide variety.

Majors must complete a minimum of 26 hours in geology, but 30 hours are recommended to meet requirements for government positions. Majors



may become candidates for the A.B. or B.S. degree on completing the general and specific requirements for either.

Major requirements: The curriculum for majors must include Geology 200, 201, and 310; English 377 or 408; Geography 320; History 312 or 313; 8 hours of chemistry; Biological Science 201 and 202, 8 hours.

## HISTORY

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

## HOME ECONOMICS

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

### PREPARATION REQUIRED FOR STUDENTS PLANNING TO BE DIETITIANS

Students planning to prepare for positions as dietitians must be graduates of a four-year college of approved standing. During their undergraduate years they must follow the courses prescribed by the American Dietetic Association for students applying for admission to graduate training courses.

The following curriculum meets the requirements of Plan III, which is now in effect, recommended by the American Dietetic Association.

### Curriculum for Dietitians

#### B.S. DEGREE

##### FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 101 .....	3	English 102 .....	3
Language .....	3	Language .....	3
Home Economics 110 .....	3	Chemistry 104 .....	4
Physical Education 113 .....	1	Home Economics 203 .....	3
Chemistry 103 .....	4	Physical Education 114 .....	1
		Home Economics 210 .....	3

## SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Biological Science 201 .....	4	Language .....	3
Language .....	3	Biological Science 202 .....	4
Speech 103 .....	3	Sociology 200 .....	3
Economics 241 .....	3	Psychology 201 .....	3
Business Administration 215 ...	3	Electives*** .....	3
	16		16

## THIRD YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 300 .....	3	English 301 .....	3
Chemistry 217 .....	5	Chemistry 218 .....	4
Psychology, Sociology, Philosophy* .....	3	Zoology 315 .....	4
History 312 or 322 .....	3	History 313 .....	3
Electives*** .....	3	Home Economics 303 .....	3
	17		17

## FOURTH YEAR

First Semester	Hrs.	Second Semester	Hrs.
Home Economics 403 .....	3	Home Economics 304 .....	3
Home Economics 413 .....	3	Home Economics 405 .....	3
Home Economics 420 .....	3	Business Administration 424 ...	3
Botany 302** .....	4	Home Economics 407 .....	3
Electives*** .....	4	Education 319 .....	3
	17		15

\*Suggested courses: Psychology 301, 331, 340; Philosophy 201, 303.

\*\*Botany 302 completes the degree requirement in Biological Science.

\*\*\*Electives should be selected from home economics and minor fields.

## 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 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 101, 201, 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, 371, 407, 408, 409, 410. 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, radio-TV journalism, industrial publications, magazine article writing, public relations and school publications.

Required courses for the news-editorial sequence are:

Journalism: 101, 201-202, 300, 301-302, 360, 402, 405 and one advanced writing course which may be: 304-305, 308-309.

Complementary courses: Economics 241; History 312 or 313; Political Science 201-202; Psychology 201; Sociology 200.

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.

The Department of Journalism also offers a curriculum for Teachers College students, listed in the Teacher Education Curriculum section under the Teaching Fields in Secondary Education. Students completing this curriculum and Journalism 402 may receive a Certificate of Journalism.

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## Curriculum in Advertising

### Journalism Sequence

#### A.B. DEGREE

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	Business 101 .....	3
Speech 103 .....	3	Business 103** .....	2
Language* .....	3	Language* .....	3
Science (A&S Course) .....	4	Science (A&S Course) .....	3-4
Physical Education 113 or Military Science .....	1-2	Physical Education 114 or Military Science .....	1-2
	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 or Economics 300*** .....	3	Business 231 .....	3
Electives .....	2	Art 216 .....	3
	17		18

#### THIRD YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 300 .....	3	English 301 .....	3
Journalism 301 .....	3	Journalism 302 .....	3
Business 320 .....	3	Business 318 .....	3
Journalism 335 .....	3	Journalism 330 .....	3
Business 340 .....	3	Journalism 360 .....	3
Electives .....	2		
	17		15

\*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: Business 215, 3; Speech 230, 3; Economics 242\*\*\*, 3; Psychology 302, 3; Journalism 308, 2; Journalism 405, 2.

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

\*\*\*Students enrolling in Economics 241 must take Economics 242; otherwise they must enroll in Economics 300.

## FOURTH YEAR

First Semester	Hrs.	Second Semester	Hrs.
Political Science 307 .....	3	Journalism 382 .....	3
Business 342 .....	3	Journalism 402 .....	3
Journalism 381 .....	3	Business 442 .....	3
Electives .....	6-7	Electives .....	6-7
<hr/> 15-16		<hr/> 15-16	

Other recommended electives are: Speech 207, 3; Business 216, 3; Speech 231, 3; Business 307, 3; Journalism 350, 3; and Journalism 351, 3.

**Radio - Television 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 Radio-Television Journalism. This sequence prepares students for radio and television news broadcasting and news editing.

Course requirements for the radio-television journalism sequence are:

Journalism 350, 351, Speech 230, 233, 240, and 331. (See prerequisite for Journalism 350-351.)

**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 180. 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:

## 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	
Physical Education or		Military Science .....	1
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		Philosophy, Psychology or	
Political Science .....	3	Sociology .....	2-4
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		14-16	

## THIRD YEAR

First Semester	Hrs.	Second Semester	Hrs.
History, Economics or		History, Economics or	
Political Science .....	2-3	Political Science .....	3
Science (A. & S. Course)** ....	4	Philosophy, Psychology or	
Music, applied (300 level) ....	2	Sociology .....	3
Music, ensemble (300 level) ...	1	Science (A. & S. Course)** ....	3-4
Science .....	4	Music, applied (300 level) ....	1
Elective .....	3	Music, ensemble (300 level) ...	1
		Electives (300-400 level) .....	3
<hr/>		<hr/>	
16-17		15-16	

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

\*\*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.

## 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 Music Department before qualifying for a degree with a major in music.

## PHILOSOPHY

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

## 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 Arts and Sciences College and by completing a total of 32 hours of work in the field of physical education.

Required courses in physical education:

113-114-118, 220, 221, 222, 303, 321, 335, 450, 475 . . . Total:—22 hrs.

Electives to complete a total of 32 hours.

## 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 201E, 202, 203E, 204, 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 180 during the summer previous to entering Marshall University and complete Mathematics 181 during the first semester of their freshman year so that they can take Physics 201E and 202 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 in addition must complete 26 hours in courses in political science including Political Science 201, 202, and either 425 or 426.

Recommended electives include economics (especially 241 and 242); History 105 and 106 (for pre-law students), 311, 312, 313; Business 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, 344, 345, 460, and 20 additional hours on the 300-400 level. For students not planning to do graduate work. (30 hours)

**SOCIOLOGY MAJOR—PREPROFESSIONAL OPTION.** Soc. 200, 344, 345, 403, 445, 460 plus 15 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, 344, 345, 303, 305, 332 or 442, 439, 460 plus 9 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, 305, 310, 311, 344, 345, 409, 410, 431, 432, 439, 460, and three additional hours on the 300-400 level. (37 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. The department's work is augmented by the forensics program, Speech and Hearing Clinic, University Theatre, the Summer Theatre, and Radio Station WMUL.

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.

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

**Curriculum in Radio - Television**

(A.B. DEGREE)

**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 120 .....	3
	<hr/> 17-18		<hr/> 17-18

**SECOND YEAR**

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

**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 .....	3	Speech 330 .....	3
Speech 332 .....	2	Education 466 .....	3
Speech 333 .....	3	Speech 331 .....	3
Electives .....	3	Electives .....	1-2
	<hr/> 17		<hr/> 16-17

**FOURTH YEAR**

First Semester	Hrs.	Second Semester	Hrs.
Psychology 223 .....	3	Speech 435 .....	3
Speech 431 .....	3	Speech 432 .....	3
Speech 433 .....	3	Electives .....	10-11
Electives .....	7-8		
	<hr/> 16-17		<hr/> 16-17

\*See page 127 for language requirements.



**Curriculum in Speech Pathology and Audiology**

(A.B. DEGREE)

**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
Phys. Ed. 113 or Mil. Sc. ....	1-2	Phys. Ed. 113 or Mil. Sc. ....	1-2
Elective .....	3	Psychology 201 .....	3
<hr/>		<hr/>	
17-18		17-18	

**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	Social Science* .....	3
Psychology 340 .....	3	Speech 420 .....	3
Speech 429 .....	3	Speech 422 .....	3
Speech 439 .....	3	Speech 425 .....	3
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15		15	

**FOURTH YEAR**

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

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

## ZOOLOGY

The courses in zoology are intended to meet the needs of students who want some knowledge of zoology as part of their general education, those who need work in zoology to satisfy the requirements in other departments, and those who propose to specialize in zoology. A major in zoology serves those who plan to enter medicine, dentistry, veterinary medicine, game management, fisheries biology, entomology, or other related fields. Zoology majors may pursue advanced degrees leading to teaching or research in applied zoology.

Zoology majors must 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 or Biological Sciences 303, 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 217 and 218, 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 a sufficient number of semester hours of good quality work has been completed to total 128 when added to those earned at Marshall University.

Students working under this combined program are permitted to exceed the maximum number of hours normally allowed in any one division. 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."

## Curriculum 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.

## FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 101 .....	4	Chemistry 102 .....	4
English 101 .....	3	English 102 .....	3
Biological Science 201 .....	4	Biological Science 202 .....	4
Physical Education 113 or Military Science .....	1-2	Physical Education 114 or Military Science .....	1-2
Mathematics 120 or 180 .....	3-5	Mathematics 122 or 180 .....	3-5
	<hr/> 15-18		<hr/> 15-18

## 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		
	<hr/> 18		<hr/> 15

## THIRD YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 345 .....	4	Chemistry 307 .....	3
Zoology 301* .....	4	Zoology 302 .....	4
Foreign Language .....	3	Foreign Language .....	3
Psychology 201 .....	3	Electives .....	6-8
Electives .....	3		
	<hr/> 17		<hr/> 16-18

\*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.

## FOURTH YEAR

The senior year must include those courses needed to meet degree requirements and department major requirements. (See COMBINED COLLEGE AND PROFESSIONAL DEGREES.)

*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 pre-medical 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 to 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 type examinations, 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.

## General Requirements for All Degrees in the College of Applied Science

(1) Candidates for all degrees must complete all of the specific requirements for their curriculum, as listed below, and must pass 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 for the B.S.C.E., B.E.S., B.S. in Medical Technology, B.S. in Cytotechnology; the A.S. in Nursing and the A.S. in Cytotechnology Degrees

See the printed curriculums for these degrees under the departmental sections which follow.

### 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, and the program has been approved by the West Virginia State Board of Education. 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 the Bachelor of Science in Cytotechnology.

### Cytotechnology Curriculum

#### FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 101 .....	4	Chemistry 102 .....	4
English 101 .....	3	English 102 .....	3
Biological Science 201 .....	4	Biological Science 202 .....	4
Mathematics 120 .....	3	Mathematics 122 .....	3
Physical Education 113 .....	1	Physical Education 114 .....	1
	<hr/>		<hr/>
	15		15

#### SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 345 .....	3	Zoology 315 .....	4
Physics 201 .....	3	Physics 203 .....	3
Physics 202 .....	1	Physics 204 .....	1
Language .....	3	Zoology 300 .....	4
Electives .....	5	Language .....	3
		Electives .....	2
	<hr/>		<hr/>
	15		17

#### THIRD YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 217 .....	5	Chemistry 218 .....	4
Zoology 424 .....	4	Botany 302 .....	4
Zoology 301 .....	4	Language .....	3
Language .....	3	Electives .....	5
Electives .....	2		
	<hr/>		<hr/>
	18		16

## FOURTH YEAR

First Semester	Hrs.	Second Semester	Hrs.
Cytotechnology 431 .....	6	Cytotechnology 433 .....	6
Cytotechnology 432 .....	6	Cytotechnology 434 .....	6
	<hr/> 12		<hr/> 12

## SUMMER SESSIONS

First Summer	Hrs.	Second Summer	Hrs.
Cytotechnology 435 .....	4	Cytotechnology 436 .....	3
		Cytotechnology 437 .....	1
			<hr/> 4

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

## SUGGESTED ELECTIVES:

Business Administration 103-104 .....	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 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 150 semester hours of credit is required for graduation in each of these curriculums. Students enrolled in the Reserve Officers Training Corps (ROTC) program may substitute credits in military science in lieu of Physical Education 113 and 114, but all other credits in military science are in addition to the minimum of 150 hours required for graduation. 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 110 hours of college work are classified as *seniors*.

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

Students who have completed 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 101 .....	4	Chemistry 102 .....	4
English 101 .....	3	English 102 .....	3
General Engineering 100 .....	Cr.	General Engineering 102 .....	2
General Engineering 101 .....	2	Mathematics 220 .....	4
General Engineering 103 .....	1	Physical Education 114 .....	1
Mathematics 181 .....	5	Physics 201 .....	4
Physical Education 113 .....	1	Physics 202 .....	1
Social Studies 104 .....	3		
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	19		19

**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 221 .....	4	Mathematics 335 .....	4
Physics 203 .....	4	Physics 320 .....	3
Physics 204 .....	1	Psychology 201 .....	3
Social Studies 105 .....	3		
	<hr/>		<hr/>
	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
General Engineering 401 .....	Cr.	Technical Elective* .....	5
Technical Elective* .....	3		
<hr/>		<hr/>	
16		16	

## General Engineering Curriculum

## BACHELOR OF ENGINEERING SCIENCE DEGREE

## FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 101 .....	4	Chemistry 102 .....	4
English 101 .....	3	English 102 .....	3
General Engineering 100 .....	Cr.	General Engineering 102 .....	2
General Engineering 101 .....	2	Mathematics 220 .....	4
General Engineering 103 .....	1	Physical Education 114 .....	1
Mathematics 181 .....	5	Physics 201 .....	4
Physical Education 113 .....	1	Physics 202 .....	1
Social Studies 104 .....	3		
<hr/>		<hr/>	
19		19	

## 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 221 .....	4	Mathematics 335 .....	4
Physics 203 .....	4	Physics 320 .....	3
Physics 204 .....	1	Psychology 201 .....	3
Social Studies 105 .....	3		
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19		19	

\*Approved technical electives: Botany 302, Chemistry 227, Civil Engineering 300 and 420, General Engineering 480 and 481, Geology 200 and 314, Mechanical Engineering 410, and any 400 series mathematics course.



## 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
	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		
	18		16

\*Approved technical electives: Chemistry 227, General Engineering 480 and 481, any 400 series mathematics course, and Physics 314, 315, 405, 462, and 463.

## 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.

**PHYSICAL EDUCATION:**

2 semester hours. One year.

**FOREIGN LANGUAGE:**

12 semester hours. Two years' work in German, French or Spanish.

**ELECTIVES:**

31 semester hours. Electives, as for any professional career, are chosen to include broad education in English, social sciences, arts and humanities. Typing 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 for Medical Technology

#### FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 101* .....	4	Chemistry 102 .....	4
Mathematics 120* .....	3	Mathematics 122 .....	3
Biological Science 201 .....	4	Biological Science 202 .....	4
Physical Education 113 .....	1	Physical Education 114 .....	1
English 101 .....	3	English 102 .....	3
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15		15	

#### SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 217 .....	5	Chemistry 218 .....	4
Foreign Language .....	3	Foreign Language .....	3
Physics 201-202 .....	4	Physics 203-204 .....	4
English 300 or 301 .....	3	Speech 103 .....	3
Electives .....	2	Electives .....	2
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17		16	

\*Must be taken concurrently.

## THIRD YEAR

First Semester	Hrs.	Second Semester	Hrs.
Chemistry 345 .....	3	Zoology 300 .....	4
Foreign Language .....	3	Foreign Language .....	3
Electives .....	7	Electives .....	9
Botany 302 .....	4		
	<hr/> 17		<hr/> 16

## SUGGESTED ELECTIVES:

Business Administration 103-104 .....	4 hrs.
Psychology 418 .....	3 hrs.

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

## FOURTH YEAR

First Semester	Hrs.	Second Semester	Hrs.
Medical Technology 401 .....	3	Medical Technology 402 .....	3
Medical Technology 403 .....	5	Medical Technology 404 .....	9
Medical Technology 405 .....	4		
	<hr/> 12		<hr/> 12

## SUMMER SESSION

First Term	Hrs.	Second Term	Hrs.
Medical Technology 407 .....	2	Medical Technology 406 .....	1
Medical Technology 409 .....	2	Medical Technology 408 .....	2
		Medical Technology 410 .....	1
	<hr/> 4		<hr/> 4

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 14 and 23 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**

A two-year scholarship and a four-year scholarship covering the cost of all university tuition fees, books, and laboratory expenses in all subjects, plus a \$50.00 a month subsistence allowance throughout the period of the scholarship is available to qualified students. The two-year scholarship is awarded for the Advanced Course. Acceptance of these scholarships commits the student to four years active military service as a commissioned officer. Selection of students for the two-year scholarship is based upon academic and military excellence, demonstrated initiative and leadership capacities, and a definite aptitude and interest for the military service. Award of the four-year scholarship places emphasis on academic excellence in high school and outstanding moral character. For further information on scholarships, contact the Military Science Department.

### **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 junior, etc.).

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

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

Students should consult the professor of military science for further guidance in case any difficulty arises in selecting a course to meet this requirement.

## NURSING EDUCATION

### ASSOCIATE IN SCIENCE IN NURSING DEGREE

The Department of Nursing Education offers a University-centered program in basic nursing leading to the A.S. in Nursing degree. The purpose of the program is to assist young men and women with academic and professional potentialities to guide the development of the individual as a person, as a citizen and as a beginning technical practitioner of nursing. These nurses, under supervision, are prepared to provide scientifically based direct and indirect nursing care. The graduates of this program are eligible to write the state board test pool examinations for registered nurses. The program has been approved by the West Virginia Board of Education and the State Board of Examiners for Registered Nurses.

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 Education 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 Department of Nursing Education faculty for their educational value to students. Members of the faculty supervise student clinical practice and conduct patient-centered seminars.

Cooperating health agencies include: Cabell Huntington Hospital, Cabell-Huntington Health 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 \$45.00, not including the cost of shoes, hose and watch.

**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 for the A.S. in Nursing Degree

#### FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 101 .....	3	English 102 .....	3
Home Economics 210 .....	2	Chemistry 100 .....	4
Zoology 225 .....	4	Psychology 201 .....	3
Nursing 101 .....	6	Nursing 102 .....	6
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#### SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
Sociology 200 .....	3	Nursing 211 .....	8
Nursing 204 .....	10	Nursing 210 .....	3
Psychology 311 .....	3	Botany 302 .....	4
	<hr/> 16	Elective .....	2
			<hr/> 17

# School of Business

## Purpose

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 Accounting.
  - b. Two-Year Retailing.
  - c. Two-Year Secretarial.
2. The Bachelor of Business Administration Degree.
  - a. Accounting Major.
  - b. Management Major.
  - c. Marketing Major.
  - d. Banking and Finance Major.
  - e. Secretarial Major.
3. Master of Business Administration Degree.
  - a. Accounting Major.
  - b. Economics Major.
  - c. Finance Major.
  - d. Management 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 four departments:

1. The Department of Accounting.
2. The Department of Administrative Studies.
3. The Department of Marketing.
4. The Department of Secretarial Science.

## General Requirements for the B.B.A. Degree

- (1) Candidates for the B.B.A. degree must earn a minimum of 128 semester hours and must complete all of the specific requirements set forth in one of the Business Administration curriculums and meet the specific



social science requirements as given for the A.B. and B.S. degrees. Candidates must also earn at least 12 hours in a minor subject, no more than 3 of which may be from the 100 series.

- (2) Other general requirements are the same as those numbered (1), (3), (4), and (5) under above statement of GENERAL REQUIREMENTS, Pages 126-127.

### **Master of Business Administration Degree**

See the Catalog of the Graduate School.

### **Associate in Science Degree**

For those who may not be able, or may not wish to complete four years of college work, a number of two-year special curriculums have been organized. These courses serve three purposes: (1) they enable 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) they enable the student to prepare better for some vocation or phase of work in which he may be interested; (3) they give the student a feeling of satisfaction for having completed a course of study.

Upon the completion of one of these courses the student may be granted the degree of Associate in Science. However, after the completion of a two-year course the student may, if he wishes, continue toward a baccalaureate degree.

## **BUSINESS**

### **Accounting**

#### **TWO-YEAR COURSE**

##### **FIRST YEAR**

First Semester	Hrs.	Second Semester	Hrs.
English 101 .....	3	English 102 .....	3
Business Administration 101 ...	3	Mathematics 110 .....	3
Business Administration 215 ...	3	Business Administration 216 ...	3
Business Administration 103 ...	2	Science Elective* .....	4
Science Elective* .....	4	Physical Education 114 .....	1
Physical Education 113 .....	1	Speech 103 .....	3
<hr/>		<hr/>	
16		17	

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

## SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 300 .....	3	English 301 .....	3
Business Administration 307 ...	3	Business Administration 312 ...	3
Business Administration 311 ...	3	Business Administration 348 ...	3
Business Administration 347 ...	3	Economics 242 .....	3
Economics 241 .....	3	Elective .....	4
	<hr/> 15		<hr/> 16

## Retailing

## TWO-YEAR COURSE

## FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 101 .....	3	English 102 .....	3
Business Administration 101 ...	3	Mathematics 110 .....	3
Business Administration 215 ...	3	Business Administration 216 ...	3
Business Administration 103 ...	2	Business Administration 231 ...	2
Physical Education 113 .....	1	Physical Education 114 .....	1
Elective .....	5	Speech 103 .....	3
	<hr/> 17		<hr/> 15

## SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 300 .....	3	English 301 .....	3
Science Elective* .....	4	Science Elective* .....	4
Business Administration 340 ...	3	Business Administration 345 ...	3
Business Administration 343 ...	3	Business Administration 341 ...	3
Economics 241 .....	3	Economics 242 .....	3
	<hr/> 16		<hr/> 16

## Secretarial

## TWO-YEAR COURSE

## FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 101 .....	3	English 102 .....	3
Business Administration 101 ...	3	Mathematics 110 .....	3
Business Administration 215 ...	3	Business Administration 216 ...	3
Business Administration 103 ...	2	Business Administration 104 ...	2
Business Administration 201 ...	3	Business Administration 202 ...	3
Physical Education 113 .....	1	Physical Education 114 .....	1
	<hr/> 15		<hr/> 15

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

## SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 300 .....	3	English 301 .....	3
Science Elective* .....	4	Science Elective* .....	4
Business Administration 105 ...	2	Economics 242 .....	3
Business Administration 301 ...	3	Business Administration 305 ...	2
Economics 241 .....	3	Speech 103 .....	3
Elective .....	2	Elective .....	2
<hr/>		<hr/>	
17		17	

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

## BUSINESS ADMINISTRATION

Areas of concentration within this department are: advertising, accounting, banking and finance, business management, marketing, and secretarial science. Except for advertising, all curriculums in the department lead to the B.B.A. degree.

## ALL CURRICULUMS

## B.B.A. DEGREE

## FIRST YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 101 .....	3	English 102 .....	3
Language Elective* .....	3	Language Elective* .....	3
Mathematics 110 .....	3	Business Administration 101 ...	3
Geography 203 .....	3	Speech 103 .....	3
Science Elective** .....	4	Science Elective** .....	4
Physical Education 113 .....	1	Physical Education 114 .....	1
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17		17	

## SECOND YEAR

First Semester	Hrs.	Second Semester	Hrs.
English 300 .....	3	English 301 .....	3
Language Elective* .....	3	Language Elective* .....	3
Business Administration 320 ...	3	Political Science 201 .....	3
Economics 241 .....	3	Economics 242 .....	3
Business Administration 215 ...	3	Business Administration 216 ...	3
Business Administration 103***	2	Social Science Elective ****	2
<hr/>		<hr/>	
17		17	

\*Twelve hours of one foreign language required unless student presents two units of one foreign language from high school.

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

\*\*\*Not open to students who have had one year of typewriting in high school or the equivalent.

\*\*\*\*Must be from psychology, philosophy, or sociology.

**ACCOUNTING****THIRD YEAR**

First Semester	Hrs.	Second Semester	Hrs.
Business Administration 323 ...	3	Business Administration 325 ...	3
Economics 310 .....	3	Economics 326 .....	3
Business Administration 307 ...	3	Business Administration 318 ...	3
Business Administration 340 ...	3	Business Administration 312 ...	3
Business Administration 311 ...	3	Business Administration 348 ...	3
	<hr/> 15		<hr/> 15

**FOURTH YEAR**

First Semester	Hrs.	Second Semester	Hrs.
Business Administration 460 ...	3	Business Administration 418 ...	3
Business Administration 347 ...	3	Business Administration 413 ...	3
Business Administration 414 ...	3	Social Science Elective **** ...	3
Social Science Elective **** ...	3	Elective .....	3
Elective .....	3	Elective .....	3
	<hr/> 15		<hr/> 15

**BANKING AND FINANCE****THIRD YEAR**

First Semester	Hrs.	Second Semester	Hrs.
Business Administration 323 ...	3	Business Administration 325 ...	3
Economics 310 .....	3	Economics 326 .....	3
Business Administration 307 ...	3	Business Administration 318 ...	3
Business Administration 340 ...	3	Business Administration 312 ...	3
Business Administration 311 ...	3	Business Administration 324 ...	3
	<hr/> 15		<hr/> 15

**FOURTH YEAR**

First Semester	Hrs.	Second Semester	Hrs.
Business Administration 460 ...	3	Economics 320 .....	3
Economics 330 .....	3	Business Administration 434 ...	3
Business Administration 327, 331, or 333 .....	3	Social Science Elective **** ...	3
Social Science Elective **** ...	3	Elective .....	3
Elective .....	3	Elective .....	3
	<hr/> 15		<hr/> 15

\*\*\*\*Must be from psychology, philosophy, or sociology.

**MANAGEMENT****THIRD YEAR**

First Semester	Hrs.	Second Semester	Hrs.
Business Administration 323 ...	3	Business Administration 325 ...	3
Economics 310 .....	3	Economics 326 .....	3
Business Administration 307 ...	3	Business Administration 318 ...	3
Business Administration 340 ...	3	Business Administration 418 ...	3
Business Administration 347 ...	3	Business Administration 350 ...	3
	<hr/> 15		<hr/> 15

**FOURTH YEAR**

First Semester	Hrs.	Second Semester	Hrs.
Business Administration 460 ...	3	Business Administration 421 ...	3
Economics 330 .....	3	Business Administration 420 ...	3
Business Administration 424 ...	3	Social Science Elective**** .....	3
Social Science Elective **** ...	3	Elective .....	3
Elective .....	3	Elective .....	3
	<hr/> 15		<hr/> 15

**MARKETING****THIRD YEAR**

First Semester	Hrs.	Second Semester	Hrs.
Business Administration 323 ...	3	Business Administration 325 ...	3
Economics 310 .....	3	Economics 326 .....	3
Business Administration 307 ...	3	Business Administration 318 ...	3
Business Administration 340 ...	3	Business Administration 350 ...	3
Business Administration 343 ...	3	Business Administration 341 ...	3
	<hr/> 15		<hr/> 15

**FOURTH YEAR**

First Semester	Hrs.	Second Semester	Hrs.
Business Administration 460 ...	3	Business Administration 442 ...	3
Business Administration 441 ...	3	Business Administration 440 ...	3
Business Administration 422 ...	3	Social Science Elective**** .....	3
Social Science Elective**** .....	3	Elective .....	3
Elective .....	3	Elective .....	3
	<hr/> 15		<hr/> 15

\*\*\*\*Must be from psychology, philosophy, or sociology.



**SECRETARIAL****THIRD YEAR**

<b>First Semester</b>	<b>Hrs.</b>	<b>Second Semester</b>	<b>Hrs.</b>
Business Administration 323 ...	3	Business Administration 325 ...	3
Economics 310 .....	3	Economics 326 .....	3
Business Administration 307 ...	3	Business Administration 318 ...	3
Business Administration 340 ...	3	Business Administration 305 ...	2
Business Administration 201 ...	3	Business Administration 202 ...	3
Business Administration 105 ...	2		
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	17		14

**FOURTH YEAR**

<b>First Semester</b>	<b>Hrs.</b>	<b>Second Semester</b>	<b>Hrs.</b>
Business Administration 460 ...	3	Business Administration 404 ...	3
Business Administration 301 ...	3	Business Administration 421 ...	3
Elective .....	3	Elective .....	3
Social Science Elective**** ....	3	Social Science Elective**** ....	3
Elective .....	2	Elective .....	3
	<hr/>		<hr/>
	14		15

\*\*\*\*Must be from psychology, philosophy, or sociology.

# Courses of Instruction by Departments

## ABBREVIATIONS

PR Prerequisite

CR Corequisite

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

## ART

### TEACHERS COLLEGE

Professor Carpenter

Assistant Professors Ertresvaag, Hendricks, Kilgore

Instructors Amick, Cornfeld

- 101-102. DRAWING. 3; 3 hours. I, II.

Freehand drawing with emphasis on drawing from nature and the posed model, using a variety of media.

112. ART APPRECIATION. 2 hrs. I, II, S.

Significance of art in everyday living. Required of all students in 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.

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.

215. ADVANCED DESIGN. 2 hrs.

Design with the emphasis on three dimensional form.

PR: Art 214.

216. COMMERCIAL ART. 3 hrs.

Projects 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 215.

306. DESIGN IN METAL. 2 hrs.

Advanced design in metal. Emphasis on copper, silver, pewter, brass. Problems will involve soldering, enameling, and shaping metal by hand.

PR: Art 215.

307. SCULPTURE. 3 hrs.  
Emphasis on modeling in clay from the human figure 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. II.  
Projects in egg tempera, fresco, mixed media, and gilding.  
PR: Junior and senior standing and Art 101 and 102.
370. GRAPHIC PROCESSES. 3 hrs.  
Experiments in the media of etching, dry point, lithography, and wood cut as means of pictorial expression.  
PR: Art 101-102.
- 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.
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. OIL PAINTING. 3; 3 hrs.  
Study and practice of oil painting in expressing still life, landscape, and the human figure.  
PR: Art 102, Art 103.
460. HISTORY AND PHILOSOPHY OF ART EDUCATION. 3 hrs. II.  
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.

**BIBLE AND RELIGION**  
**COLLEGE OF ARTS AND SCIENCES**  
(Division of Humanities)

Professor Jennings

206. **HISTORY AND LITERATURE OF THE NEW TESTAMENT.** 2 hrs.  
The Jewish and Gentile background and the beginnings of Christianity with an introduction to the writings of the New Testament. Open to Freshmen.
210. **OLD TESTAMENT HISTORY.** 2 hrs.  
The growth and development of the Hebrew people, religion, and literature, to the Greek period. Open to Freshmen.
300. **INTRODUCTION TO THE STUDY OF RELIGION: NATURE OF RELIGION.** 3 hrs.  
An analysis of the nature of religious personalities, institutions, literature, philosophies, experiences, and education.
301. **INTRODUCTION TO THE STUDY OF RELIGION: FUNCTION OF RELIGION.** 3 hrs.  
A correlation of religion with the different areas of life: natural sciences, humanities, social sciences, philosophy, ethics, education.
302. **OUTLINES OF CHURCH HISTORY.** 3 hrs.  
The historical development of Christianity from the first century to the present.
304. **THE TEACHINGS OF JESUS.** 2 hrs.  
An analysis of the Gospels and a systematic study of the message of Jesus.
310. **THE HEBREW PROPHETS.** 2 hrs.  
The rise of the office of prophet and the contributions of prophecy to religion.
315. **PSYCHOLOGY OF RELIGION.** 3 hrs.  
An examination of the factors in individual and group religious experiences.
323. **HISTORY OF RELIGIOUS THOUGHT IN AMERICA.** 3 hrs.  
The rise and development of religion and of religious thinking in America.
418. **DEVELOPMENT OF RELIGIOUS IDEAS.** 3 hrs.  
A study of the sources of religious thought of 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**

### **COLLEGE OF ARTS AND SCIENCES**

(Division of Sciences)

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

Associate Professor Ash

Assistant Professors Frum, Gillespie, Jinks, Modlin, Noble, Poff, Shoemaker

Instructors Brumfield, Connell, Huffman, Jarrell, Kahle, Rowsey

## **Biology**

201. **BIOLOGICAL SCIENCE (Biology of Plants).** 4 hrs. I, II, S.  
The fundamentals of biology, with emphasis on plant structures, functions, and classification, including cellular organization and processes which are common to both plant and animal life. 3 lec-2 lab.
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.
303. **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.
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.



404. **CELLULAR PHYSIOLOGY.** 4 hrs. I.  
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. **GENETICS.** 4 hrs. I, S.  
The fundamental principles and mechanisms of inheritance including their human application.  
PR: Biological Science 202.
430. **ECOLOGY.** 4 hrs. I, S.  
The interrelationships of plants, animals, and environment. Local and world distribution of biotic communities.  
PR: Botany 316 or consent of instructor.
482. **CONSERVATION OF FORESTS, SOIL AND WILDLIFE.** 3 hrs. II, 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. **DEVELOPMENT OF SCIENTIFIC THOUGHT.** 3 hrs. II, S.  
A study of the men who have developed our knowledge of science; the philosophy of their periods; the economic conditions leading to scientific advancement; and the works of the foremost men in this field.  
PR: 12 semester hours of science.

### Botany

302. **GENERAL BACTERIOLOGY.** 4 hrs. I, II, S.  
Basic microbiological techniques, fundamental principles of microbial action, physiological processes, immunology, serology, disease process. 2 lec-4 lab.  
PR: Biological Science 201 (or equivalent), or one year chemistry.
305. **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.
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. **LOCAL PLANTS.** 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.  
PR: Biological Science 201 or equivalent.

402. BACTERIOLOGY: SPECIAL TOPICS. 1-3 hrs.  
PR: Botany 302.
410. SPECIAL TOPICS. 1-4 hrs. I, II, S.  
By permission of instructor and consent of Department Chairman.

### Zoology

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.  
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.  
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-4 lab.  
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. 1 lec-4 lab.  
PR: Zoology 212.
403. ENTOMOLOGY. 3 hrs. S.  
Anatomy, classification, life histories and economic importance of representative insects. 1 lec-4 lab.  
PR: Zoology 212.
408. ORNITHOLOGY. 3 hrs. II, S.  
Identification, distribution, migration and breeding activities of birds. 2 lec-2 lab.
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.  
Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab.  
PR: Zoology 212.
426. **MEDICAL ENTOMOLOGY.** 4 hrs. II.  
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.

## **BUSINESS**

### **SCHOOL OF BUSINESS**

#### **Accounting**

Assistant Professors McMullen, E. Miller, Smart  
Instructors Callaway, Webb

- 215-216. **PRINCIPLES OF ACCOUNTING.** 3; 3 hrs. I, II.  
Introduction to principles and procedures of double entry accounting records and reports.
- 311-312. **INTERMEDIATE ACCOUNTING.** 3; 3 hrs. I, II.  
Principles and problems of valuation, analysis, and formal presentation of accounting data.  
PR: Business Administration 216.
347. **COST ACCOUNTING.** 3 hrs. I.  
Principles of industrial cost accounting; job order, departmental, and process costs.  
PR: Business Administration 216.
348. **FEDERAL TAXATION.** 3 hrs. II.  
Problems and procedures of income tax accounting.  
PR or CR: Business Administration 312 or permission of instructor.
413. **AUDITING.** 3 hrs. I.  
Theory and procedures; legal and social responsibilities of the auditor.  
PR: Business Administration 312 or permission of instructor.
414. **ADVANCED ACCOUNTING PROBLEMS.** 3 hrs. I.  
Selected problems in advanced accounting principles and procedures.  
PR: Business Administration 312 or permission of instructor.
418. **MANAGERIAL ACCOUNTING.** 3 hrs. II.  
The managerial approach to budgetary control.  
PR: Business Administration 347.

**Administrative Studies**

Professor Browning

Associate Professors Cole, Cyrus

Assistant Professor Wang

Instructors Lindsley, McMahon

101. **INTRODUCTION TO BUSINESS.** 3 hrs. I, II.  
Study of basic factors involving business. Includes types of ownership and organization, quantitative controls, data processing, introduction to case study method, and report writing. A prerequisite for all business courses other than 100 level.
307. **PRINCIPLES OF BUSINESS LAW.** 3 hrs. I.  
Survey of common law and recent legislation relating 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. II.  
A continuation of Business Administration 307. Emphasizes in-depth case study.
318. **BUSINESS STATISTICS.** 3 hrs. I, II.  
Survey of methods of analysis and presentation of business and economic data; sampling, measures of central tendency and dispersion; index numbers; time series.  
PR: Business Administration 101.
320. **PRINCIPLES OF MANAGEMENT.** 3 hrs. I.  
Basic principles of management; planning, organizing, motivating, coordinating, directing, and controlling.  
PR: Business Administration 101.
323. **PRINCIPLES OF BUSINESS FINANCE.** 3 hrs. I.  
Principles, instruments, and procedures involved in the procurement and maintenance of financial capital.  
PR: Economics 242 and Business Administration 216.
324. **ADVANCED BUSINESS FINANCE.** 3 hrs. II.  
Readings and case studies in detailed problems of financial management, including investment, financing, and dividend decisions.  
PR: Business Administration 323.
325. **PRINCIPLES OF INSURANCE.** 3 hrs. II.  
A survey course on the nature of risks in personal and business life and methods for treating them. The course is designed to put the student to work applying the basic principles of economics, psychology, and probability theory in risk situations to prepare him for fruitful insights into risk management methods.

327. **LIFE INSURANCE.** 3 hrs. I.  
Legal facets of life insurance; the insurance contract; programming; mathematics of life insurance.  
PR: Business Administration 325.
331. **PROPERTY INSURANCE.** 3 hrs. I.  
The principles and legal aspects of fire and marine; inland marine, special and allied lines; and automobile physical damage insurance.  
PR: Business Administration 325.
333. **CASUALTY INSURANCE.** 3 hrs. II.  
Liability, auto liability, suretyship, theft, credit and title insurance; employer's liability and workmen's compensation; and health insurance.  
PR: Business Administration 325.
420. **PRODUCTION MANAGEMENT.** 3 hrs. II.  
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: Business Administration 320.
424. **PERSONNEL MANAGEMENT.** 3 hrs. I.  
Principles and procedures involved in the recruitment, selection, training, placement, and maintenance of an effective working force.  
PR: Business Administration 320.
430. **PROBLEMS IN REAL ESTATE MANAGEMENT.** 3 hrs.  
Problems and case studies on current legal and management questions arising in the field of real estate and land development and management.  
PR: Business Administration 307 and 320.
434. **INVESTMENTS.** 3 hrs. II.  
The nature, form, and principles of investment; institutions for facilitation investment.  
PR: Business Administration 323.
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.
460. **BUSINESS POLICY.** 3 hrs. I.  
An integration of knowledge gained in business core subjects. Designed to develop ability to analyze complex business problems. Includes a comprehensive examination to be evaluated by selected business and economics faculty.
- 495H-496H. **READINGS FOR HONORS IN BUSINESS ADMINISTRATION.** 4 hrs.  
Open only to business administration majors of outstanding ability. Both must be taken to receive credit. See Honors Students, page 57.



**Marketing**

Associate Professor C. Miller

Assistant Professors Harrison, Piltz

231. **PRINCIPLES OF SELLING.** 3 hrs. I, II.  
Elements of successful specialty and retail selling; knowledge, personality, preapproach, standardized canvass, relationships to management.  
PR: Business Administration 101 or permission of instructor.
340. **PRINCIPLES OF MARKETING.** 3 hrs. I, II. Summer  
Institutions, channels of distribution, functions, federal regulation, and economics of marketing.  
PR: Business Administration 101.
341. **PRINCIPLES OF ADVERTISING.** 3 hrs. I, II. Summer  
Copy, layout, production, media, copy-research techniques.  
PR: Business Administration 101.
342. **MARKETS AND MEDIA.** 3 hrs. I.  
Examination and appraisal of various advertising media as means of marketing.  
PR: Business Administration 340 and 341.
343. **PRINCIPLES OF RETAILING.** 3 hrs. I, II. Summer  
Principles and mechanics of successful retail merchandising covering merchandise and stock control, buying, marking, pricing, advertising, credit, and personnel management.
345. **COOPERATIVE STORE SERVICE.** 3 hrs. I.  
Work in cooperating retail establishments to gain practical experience in the principles and techniques covered in classroom courses in retailing. Working-time minimum, 200 hours per semester under supervision of coordinator. Required of retailing majors only.
350. **TRANSPORTATION.** 3 hrs. I, II. Summer  
History, organization, operation, regulation, and management of railway, waterway, highway, and air transportation. Principles of rate making, shipping practices, train movements, terminals, ports and docks, traffic expediting services.
422. **MERCHANDISING PROBLEMS.** 3 hrs. I, II. Summer  
Managerial problems pertaining to sales inventory and purchases; retail method of inventory; sales expense and pricing; mark-up and mark-down planning; stock planning.  
PR: Business Administration 216 and 340.
440. **SALES MANAGEMENT.** 3 hrs. I. Summer  
Policies and procedures pertaining to product planning and pricing, choice of market, planning sales effort, and the control of sales operations.  
PR: Business Administration 340 and 231.
441. **WHOLESALEING.** 3 hrs. II. Summer  
Nature and importance of wholesaling; managerial aspects and problems; governmental regulation.  
PR: Business Administration 340.

442. **TECHNIQUES OF MARKET RESEARCH.** 3 hrs. II. Summer  
Scope and importance of marketing and distribution research; product, package, and brand analysis; consumer, industrial and institutional surveys; quantitative and qualitative analysis of market data, situation analysis, sampling; tabulation and presentation techniques.  
PR: Business Administration 318, 340, and 341.

### Secretarial

Professor Anderson

Associate Professor Evans

Instructors Chapman, 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: Business 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: Business 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: Business 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.
301. **INTERMEDIATE 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: Business Administration 202 and 204.

305. SECRETARIAL OFFICE MACHINES. 3 hrs. I, II.  
Duplicating, transcribing machines, calculators, adding-listing and small desk machines.  
PR: Business Administration 104.
404. SECRETARIAL TRAINING. 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: Business Administration 301 and 305.
421. OFFICE MANAGEMENT. 3 hrs. II.  
Principles and practices, approached from the viewpoint of the office manager, through oral and written problems.  
PR: Business Administration 320.

### \*CHEMISTRY

#### COLLEGE OF ARTS AND SCIENCES

(Division of Sciences)

Dr. E. S. Hanrahan, Chairman

Professors Douglass, Hoback, Lepley

Associate Professors Chakrabarty, Hanrahan, Lillien

Assistant Professors Kong, Larson, Littler, Roberts, Sharma

100. ELEMENTARY CHEMISTRY. 4 hrs. II.  
Open to candidates for the A.S. degree in Nursing. Includes topics from chemical principles, inorganic, organic, and biochemistry. 3 lec-3 lab. Not open to students planning to enter professional schools.
101. PRINCIPLES OF CHEMISTRY. 4 hrs. I, II, S.  
Open to students in all colleges who are majors in chemistry, engineering, physics, physical science, or other comparable fields, pre-professional students, and candidates for the B.S. degree. 3 lec-3 lab.  
CR: Enrollment in Mathematics 120 or 180.
102. PRINCIPLES OF CHEMISTRY II AND QUALITATIVE ANALYSIS. 4 hrs. I, II, S.  
Three lectures in principles of chemistry and three hours laboratory in qualitative analysis.  
PR: Chemistry 101 or 104, Mathematics 120 or 180.
103. GENERAL CHEMISTRY I. 4 hrs. I.  
Open only to home economics students and A.B. degree candidates other than those listed above. 3 lec-3 lab.  
PR: One unit of high school algebra.
104. GENERAL CHEMISTRY II. 4 hrs. II.  
Continuation of Chemistry 103. 3 lec-3 lab.  
PR: Chemistry 103 or 101.

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

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 Teachers College. 3 lec-3 lab.  
PR: Chemistry 102 or 104.
218. PHYSIOLOGICAL CHEMISTRY. 4 hrs. II.  
Open to students in home economics, medical technology, and science majors in Teachers College. 3 lec-3 lab.  
PR: Chemistry 217 or 255.
227. INTRODUCTORY ORGANIC CHEMISTRY. 3 hrs. I.  
A short study of organic chemistry. Open to students in Applied Science.  
PR: Chemistry 102 or 104.
255. ORGANIC CHEMISTRY I. 5 hrs. I, S.  
A systematic study of organic chemistry. 3 lec-3 lab.  
PR: Chemistry 102.
256. ORGANIC CHEMISTRY II. 5 hrs. II, S.  
Continuation of Chemistry 255 and qualitative organic analysis. 3 lec-3 lab.  
PR: Chemistry 255.
305. CHEMICAL LITERATURE. 1 hr.  
PR or CR: Chemistry 256.
307. INTRODUCTORY PHYSICAL CHEMISTRY. 3 hrs. II, 3 lec.  
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-1 lab.  
PR: Chemistry 102.
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 221.
358. PHYSICAL CHEMISTRY II. 5 hrs. II.  
Continuation of Chemistry 357. 3 lec-3 lab.  
PR: Chemistry 357, Mathematics 221.
- 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.  
The syntheses of organic and inorganic compounds which use specialized techniques. 1 lec-6 lab.  
PR: Chemistry 256.

- 431-432. CHEMISTRY SEMINAR. 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, and 357 or 307.
462. NUCLEAR CHEMISTRY & PHYSICS. 3 hrs. II.  
Introduction to the phenomena of nuclear physics and chemistry. 3 lec.  
PR: Mathematics 221 and Physics 320 or consent of instructor.
463. NUCLEAR CHEMISTRY & PHYSICS LABORATORY. 2 hrs. II.  
4 lab.  
CR: Chemistry 462.
466. ORGANIC QUALITATIVE ANALYSIS. 3 hrs.  
The identification of organic compounds with the aid of modern instruments. 1 lec-6 lab.  
PR: Chemistry 256.
475. BIOCHEMISTRY. 2 hrs. I.  
A discussion of energy relationships in biological cycles and the mechanism of metabolism.  
PR: Chemistry 256.
480. QUANTUM MECHANICS. 3 hrs.  
An introductory course in Quantum Mechanics. 3 lec.  
PR: Mathematics 221.
482. ADVANCED ORGANIC CHEMISTRY. 3 hrs. II.  
PR: Chemistry 447.
- 495H-496H. HONORS IN CHEMISTRY. 4; 4. I, II, S.  
Open only to chemistry majors of outstanding ability. Both courses must be taken to receive credit.  
See Honors Students, page 57.

## CLASSICAL LANGUAGES

### COLLEGE OF ARTS AND SCIENCES

(Division of Humanities)

Professor Hoy

#### Greek

- 201-202. FIRST YEAR GREEK. 3; 3 hrs. I, II. Offered 1969-70.  
No credit for 201 without 202.



- 301-302. INTERMEDIATE GREEK. 3; 3 hrs. I, II. Offered 1970-71.  
Homer's Iliad, Dialogues of Plato, New Testament.  
PR: Greek 202 or equivalent.

### Latin

- 101-102. FIRST YEAR LATIN. 3; 3 hrs. I, II.  
No credit for 101 without 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 consent of department chairman.  
The following courses are offered in a cycle of four years:
306. SELECTIONS FROM HORACE. 3 hrs.  
PR: Latin 204 or three units high school Latin.
307. CICERO'S LETTERS. 3 hrs.  
PR: Latin 204 or three units high school Latin.
309. LIVY'S HISTORY OF ROME. 3 hrs.  
PR: Latin 204 or three units high school Latin.
312. TACITUS: ANNALS, GERMANIA. 3 hrs.
327. ADVANCED PROSE COMPOSITION. 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. 4; 4 hrs. I, II.  
PR: Ten hours of Latin.
- 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 Students, page 57.

### Classics

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****COLLEGE OF APPLIED SCIENCE**

Director, Professor Mills

Clinical Professors Werthammer, Sadler

Associate Clinical Professor Sheils, Clinical Instructor Eads

**431. CYTOLOGICAL METHODOLOGY. 6 hrs. I.**

Routine and special methods in cytology including specimen processing. Clinical microscopy including routine and special microscopic methods using dark field, phase and polarized light techniques.

**432. ELEMENTARY CYTOLOGY. 6 hrs. I.**

General and specific fundamentals of cytology for determining cell structure and embryology, including the cytology of specialized tissue.

**433. GENITAL CYTOLOGY. 6 hrs. II.**

Cytology in health and disease of the female genital tract. Endocrinological considerations.

**434. NONGENITAL CYTOLOGY. 6 hrs. II.**

Cytology in health and disease of respiratory, urinary and gastrointestinal tracts.

**435. CYTOLOGY OF SOME GLAND SECRETIONS, EXUDATES AND TRANSUDATES 4 hrs. S.**

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****COLLEGE OF ARTS AND SCIENCES**

(Division of Social Sciences)

Associate Professors Cook, Corrie, Sytsma

Assistant Professors Coyne, Akkihal

Instructors Adkins, Carroll, Contopoulos, Greer

**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.

**241-242. PRINCIPLES OF ECONOMICS. 3; 3 hrs. I, II, S.**

Production, exchange and distribution of wealth and income in a capitalistic economy.

PR: Sophomore standing.

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\*No courses open to first semester freshmen.

300. SURVEY OF ECONOMICS. 3 hrs. I, II, S.  
The principles course in one semester for designated students in Teachers College and the College of Applied Science.  
PR: Sophomore standing.
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.
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.
330. MANAGERIAL ECONOMICS. 3 hrs. I.  
The use of economic principles by management; pricing, sales policies, budgeting, forecasting, inter-firm relations.  
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.
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.
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.
425. THE ECONOMY OF WEST VIRGINIA. 3 hrs.  
Resources, labor, industries, institutions, markets, transportation facilities, etc., in West Virginia and the regional economy.  
PR: Economics 242, 300, or equivalent.
440. HISTORY OF ECONOMIC THOUGHT. 3 hrs. I.  
Economic theories and ideas from the earliest contributions to the 1880's.  
PR: Economics 242, 300, or equivalent.
444. CONTEMPORARY ECONOMIC THEORY. 3 hrs. II.  
Economic theories and ideas from Marshall to 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 Students, page 57.

## **EDUCATION**

### **TEACHERS COLLEGE**

Professors Morris, Arhelger, Gibbins, Hayes, Hess, Irvin, Nuzum,  
Runyan, Willey

Associate Professors Campbell, Core, Cremeans, Dingman, Felty, Gray,  
Jenkins, Lichtenstein, Queen, Regula, Ritchie, Turner, Wallace, B. Wright

Assistant Professors Dailey, Davis, Ferguson, Fulks, Gordon, Green, Hale,  
Hanger, Harvey, Hawley, Hunter, Jarrett, Jervis, Maddox, Morriss, Peltonen,  
Rummell, M. Smith, T. Smith, Sowards, Suiter, Sullivan, Swann, B. Ward,  
Wolfe

Instructors Clark, Crowe, Douglas, E. Hager, Hall, Kelly, Mathews, Meadows,  
Pett, S. Plymale, Rees, Sword, Thompson, K. Wright

Assistant Instructor Maxwell

**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.**

Provides for the study of different types of teaching practices with references to the psychological principles involved. Field experience required.

PR: Education 218 and junior standing. See page 98 for pre-requisite to field experience.

**367. EARLY CHILDHOOD: ORGANIZATION AND ADMINISTRATION. 3 hrs. I, II.**

Techniques of meeting children and parents, studying the school as a part of the community, evaluation of pupil progress, making reports to parents, principals, and superintendents.

PR: Education 319.



## 400. ELEMENTARY EDUCATION. 2-4 hrs. I, II, S.

Organization of the elementary school, problems in classroom management, procedures and techniques in teaching in the elementary school, including philosophy of education, guidance, audio-visual information, and reading instruction.

PR: Education 319.

CR: Education 405.

## 405. SUPERVISED STUDENT TEACHING. (GRADES 1-6) 4-8 hrs. I, II, S.

All-day teaching under supervision in cooperating public schools. Required of all students completing the Professional Elementary Certificate or the Special Certificate in Art, Music, or Physical Education.

PR: Education 319.

CR: Education 400. (See "Student Teaching" on pages 99-100.)

## 406. FOUNDATIONS OF EDUCATION. 3 hrs. I, II, S.

A survey of the historical, philosophical and social foundations.

PR: Education 319.

## 409. EARLY CHILDHOOD PROGRAMS. 3 hrs. I, II.

Educational needs of nursery, kindergarten and elementary school children through grade 6 with reference to the adjustment of learning experiences.

PR: Education 367.

CR: Education 410.

## 410. SUPERVISED STUDENT TEACHING. 8 hrs. I, II.

For students completing the early childhood education curriculum. (See "Student Teaching" on pages 99-100.)

PR: Education 367.

CR: Education 409.

## 415. HISTORY OF MODERN EDUCATION. 3 hrs. I, II, S.

Our debt to the ancient Hebrews, Greeks, and Romans. Emphasis also is placed upon the movements since the beginning of the Renaissance.

PR: Enrollment in Education 405 or 450 or permission of instructor.

## 417. STATISTICAL METHODS. 3 hrs. II, S.

Elementary statistics to meet the needs of students in economics, education, political science, and philosophy.

PR: Consent of instructor.

## 428. THE JUNIOR HIGH SCHOOL CURRICULUM. 3 hrs. I, II, S.

Provides for the study of procedures for creating a functional junior high school curriculum with emphasis upon the needs of early adolescents.

PR: Education 319.

## 435. TESTS AND MEASUREMENTS. 3 hrs. I, II, S.

History, basic philosophy, and elementary statistical devices for evaluating pupil progress are studied. New type tests are constructed,

and standardized tests for elementary and secondary schools are examined and administered.

PR: Enrollment in Education 405 or 450 or permission of instructor.

441. 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: Education 319.

443. TEACHING READING IN ELEMENTARY SCHOOLS. 3 hrs. I, II, S.  
Presenting modern techniques and practices in the teaching of reading.  
PR: Education 319.

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

450. SUPERVISED STUDENT TEACHING IN SECONDARY SCHOOLS.  
3-8 hrs. I, II, S.  
All-day teaching under supervision of cooperating public schools.  
PR: Education 319. (See "Student Teaching" on pages 99-100.)

460. PHILOSOPHY OF EDUCATION. 3 hrs. I, II, S.  
Surveys basic philosophic schools and concepts and their application to educational practice.  
PR: Education 405 or 450, or permission of instructor.

465. AUDIO-VISUAL AIDS IN LEARNING. 3 hrs. I, II, S.  
Utilization of audio-visual materials, equipment, and techniques.  
PR: Education 319.

466. PRODUCTION OF AUDIO-VISUAL AIDS. 3 hrs. I, S.  
Basic techniques in making slides, photographs, dry and wet mountings, feltboard materials, movies, tape recordings, and similar teaching aids.

### METHODS FOR SECONDARY TEACHING

The following courses, Education 467-476, are designed to prepare the secondary school teacher to teach in his major field of preparation. Each course is devoted to a study of the curriculum, materials and methods for teaching a specific subject.

PR: Education 319.

467. TEACHING SOCIAL STUDIES IN SECONDARY SCHOOLS. 2 hrs. I, II, S.  
468. TEACHING ART IN SECONDARY SCHOOLS. 2 hrs. I, II.  
469. TEACHING BUSINESS EDUCATION. 2 hrs. I, II, S.  
470. TEACHING ENGLISH IN SECONDARY SCHOOLS. 2 hrs. I, II.

471. TEACHING THE LANGUAGES. 2 hrs. I, II.
472. TEACHING MATHEMATICS IN SECONDARY SCHOOLS. 2 hrs. I, II.
473. TEACHING PHYSICAL EDUCATION. 2 hrs. I, II.
474. TEACHING THE SCIENCES IN SECONDARY SCHOOLS. 2 hrs. I, II.
475. SECONDARY EDUCATION. 2-4 hrs. I, II, S.  
Philosophy of teaching in the secondary school, curriculum planning, philosophy of education, guidance, audio-visual information, and teaching of reading.  
PR: Education 319: CR: Education 450.
476. TEACHING SPEECH IN SECONDARY SCHOOLS. 2 hrs. I, II.
- 482-483-484-485. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4. 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.  
PR: Education 450 or permission of instructor.

### MATHEMATICS EDUCATION

101. MATHEMATICS FOR ELEMENTARY TEACHERS, I. 3 hrs. I, II, S.  
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 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 thought, and the use of mathematical models.  
PR: Mathematics Education 101.
- 30J. 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 the testing program.  
PR: Mathematics Education 101 and 201.
- 482-483-484-485. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4. I, II, S.  
PR: Permission of Department Chairman.

### REHABILITATION EDUCATION

306. INTRODUCTION TO REHABILITATION. 3 hrs. I, S.  
Introduction to the field of rehabilitation, various mental, physical and social disabilities, careers in rehabilitation, rehabilitation services and orientation to rehabilitation process. Two clock hours per week of laboratory.  
PR: Sophomore standing or permission of Chairman of Department.

**406. REHABILITATION SERVICES. 3 hrs. II, S.**

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: Rehabilitation Education 306. Junior standing or permission of Department Chairman.

**407. REHABILITATION PRACTICUM. 4 hrs. S.**

Participation in rehabilitation process with a variety of handicapped individuals under supervision of cooperating rehabilitation agencies.

PR: Rehabilitation Education 306 and 406. Senior standing and majors only.

**SCIENCE EDUCATION****307. 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.

**460-461. SPECIAL PROBLEMS. 1-3; 1-3 hrs. I, II, S.**

By permission of Department Chairman.

**SPECIAL EDUCATION**

(Teaching Mentally Retarded)

**420. 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: Education 319.

**433. THE MENTALLY RETARDED CHILD. 3 hrs. I, II, S.**

Acquaints teachers with the characteristics and needs of the mentally retarded. The status of the mentally retarded in our society and the impact of mental retardation on education.

PR: Education 420 or permission of instructor.

**440. STUDENT TEACHING WITH MENTALLY RETARDED CHILDREN.**

3-4 hrs. I, II, S.

(See "Student Teaching" on pages 99-100.)

**444. CHARACTERISTICS OF CRIPPLED CHILDREN. 3 hrs. I, II, S.**

Psychological, social, emotional and educational problems which may accompany crippling conditions.

PR: Education 420.

453. 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: Education 420 and 433 or permission of instructor.

496. STUDENT TEACHING WITH PUPILS WITH CRIPPLING CONDITIONS.  
3 hrs. I, II, S.

Teaching under supervision in cooperating public schools.

PR: Education 444 or consent of instructor.

## ENGINEERING

### COLLEGE OF APPLIED SCIENCE

Professors McCaskey, Skidmore

Associate 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, level, tape, and stadia. Field astronomy, triangulation, office computations and plotting.

PR: Mathematics 180 and General Engineering 101.

CE 300. ROUTE SURVEYING. 3 hrs. II.

Simple compound, spiral and vertical curves, and earth work.

1 lec-6 lab.

PR: Civil Engineering 200 and General Engineering 203.

CE 301. THEORY OF STRUCTURES I. 3 hrs. I.

Analysis of statically determinate and indeterminate structures for both elastic and inelastic materials. 3 lec.

PR: General Engineering 203.

PR or CR: Engineering Mechanics 300.

CE 302. THEORY OF STRUCTURES II. 3 hrs. II.

Continuation of Civil Engineering 301. 3 lec.

PR: Civil Engineering 301.

CE 303. SOIL MECHANICS. 3 hrs. II.

Mechanics and properties of soils. 2 lec-3 lab.

PR: Engineering Mechanics 202.

CE 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.



- CE 401. REINFORCED CONCRETE DESIGN. 3 hrs. I.  
Design of structures and structural members of reinforced and pre-stressed concrete. 2 lec-3 lab.  
PR: Civil Engineering 302 and Engineering Mechanics 302.
- CE 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.
- CE 403. ENGINEERING HYDROLOGY. 2 hrs. I.  
Rainfall, stream flow and groundwater; control and utilization of water resources. 2 lec.  
PR: Engineering Mechanics 301.
- CE 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.
- CE 405. SANITARY ENGINEERING I. 3 hrs. I.  
Water treatment and supply. 3 lec.  
PR: Engineering Mechanics 301.  
PR or CR: Civil Engineering 403.
- CE 406. SANITARY ENGINEERING II. 3 hrs. II.  
Sewerage and sewage treatment. 3 lec.  
PR: Civil Engineering 403.  
PR or CR: Civil Engineering 404.
- CE 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 203 and 204.  
PR or CR: Mathematics 221.
- EE 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 203 and 204.  
PR or CR: Mathematics 221.
- EE 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.

- EE 304. ELECTRICAL MEASUREMENTS LABORATORY I. 1 hr. II.  
Electrical measurements and applications of circuit theory. 3 lab.  
PR or CR: Electrical Engineering 302.
- EE 401. CIRCUITS III. 3 hrs. I.  
Continuation of Electrical Engineering 304, including resonance, polyphase systems, and Fourier analysis. 3 lec.  
PR: Electrical Engineering 302.
- EE 402. ELECTRONIC CIRCUITS. 3 hrs. II.  
Vacuum tubes, semiconductor devices, and electronic circuit analysis. 3 lec.  
PR: Electrical Engineering 302.  
PR or CR: Electrical Engineering 304.
- EE 403. ELECTRICAL MEASUREMENTS LABORATORY II. 1 hr. I.  
Continuation of Electrical Engineering 304. 3 lab.  
PR: Electrical Engineering 304.  
PR or CR: Electrical Engineering 401.
- EE 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 220 and Physics 201.
- EM 201. DYNAMICS. 3 hrs. I, II.  
Laws of motion, work and energy, impulse and momentum, relative motion. 3 lec.  
PR: Engineering Mechanics 200.  
PR or CR: Mathematics 221.
- EM 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.
- EM 300. MECHANICS OF MATERIALS II. 3 hrs. I, II.  
Continuation of Engineering Mechanics 202. 3 lec.  
PR: Engineering Mechanics 202 and Mathematics 221.
- EM 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.

- EM 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.

### General Engineering

- GE 100. ENGINEERING ORIENTATION. Credit. I.  
Required of all engineering freshmen. 1 lec.
- GE 101. ENGINEERING GRAPHICS I. 2 hrs. I, II.  
Orthographic projection, lettering, technical sketching. 6 lab.  
PR: Entrance mathematics requirements.
- GE 102. ENGINEERING GRAPHICS II. 2 hrs. I, II.  
Descriptive geometry, graphs, graphical analysis. 6 lab.  
PR: General Engineering 101.
- GE 103. ENGINEERING PROBLEMS. 1 hr. I, II.  
Engineering computations. 3 lab.  
PR: Mathematics 180.
- GE 200. MACHINE WORK. 1 hr. I, II.  
Use of metal lathe, drill press, shaper, milling machine. 3 lab.  
PR: General Engineering 101.
- GE 201. WELDING. 1 hr. I, II.  
Cutting, oxyacetylene and arc welding. 3 lab.  
PR: General Engineering 101.
- GE 202. BUSINESS APPLICATIONS OF DATA PROCESSING. 3 hrs. I, II.  
Data processing principles, business applications of computer programming. 2 lec-3 lab.  
PR: Mathematics 110 or equivalent.
- GE 203. COMPUTATIONAL METHODS. 3 hrs. I, II, S.  
Desk calculators, analog and digital computers, programming, and introduction to statistical analysis. 2 lec-3 lab.  
PR: Mathematics 181.
- GE 300. ENGINEERING ECONOMY. 3 hrs. II.  
Investment mathematics, depreciation, economic selection of machines, structures, and processes. 3 lec.  
PR: Junior standing and consent of instructor.
- GE 301. ENGINEERING SEMINAR I. Credit. I.  
Presentation of reports and technical papers. 1 lec.  
PR: Engineering Mechanics 202.
- GE 302. ENGINEERING SEMINAR II. Credit. II.  
Continuation of General Engineering 301. 1 lec.  
PR: Engineering Mechanics 202.

- GE 400. ENGINEERING REPORT WRITING. 2 hrs. I.  
Technical reports, business letters. 2 lec.  
PR: Senior standing and consent of instructor.
- GE 401. ENGINEERING SOCIETY I. Credit. I.  
Industrial safety. Presentation of reports and technical papers. 1 lec.  
PR: Senior standing.
- GE 402. ENGINEERING SOCIETY II. Credit. II.  
History of the engineering profession. Presentation of reports and technical papers. 1 lec.  
PR: Senior standing.
- GE 403. ENGINEERING PRACTICE. 2 hrs. II.  
Engineering law, contracts, specifications, ethics, and current professional problems. 2 lec.  
PR: Senior standing.
- GE 480-481. DIRECTED RESEARCH. 1-4; 1-4 hrs. I, II.  
Original investigations of special topics.  
PR: Senior standing and consent of instructor.

### **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.
- ME 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.
- ME 303. THERMODYNAMICS I. 3 hrs. I.  
Basic laws of thermodynamics and their application. 3 lec.  
PR: Engineering Mechanics 201, Mathematics 221, Physics 203 and 204.
- ME 304. THERMODYNAMICS II. 3 hrs. II.  
Continuation of Mechanical Engineering 303. 3 lec.  
PR: Mechanical Engineering 303.  
PR or CR: Engineering Mechanics 301.
- ME 306. MECHANICAL ENGINEERING LABORATORY. 2 hrs. II.  
Mechanical engineering measurements laboratory. 6 lab.  
PR or CR: Mechanical Engineering 304.
- ME 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.

**ME 410. MECHANICAL VIBRATIONS. 3 hrs. I.**

Vibrations of rotating and reciprocating machines. 3 lec.

PR: Engineering Mechanics 201, General Engineering 203, and Mathematics 335.

**ME 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****COLLEGE OF ARTS AND SCIENCES**

(Division of Humanities)

Professors Brown, Barba, Baxter, Mitchell, Tyson

Associate Professors Glasgow, Phillips, Putz, Stooke, Thorn, Williams

Assistant Professor Adkins, Bailey, Fei, Gerke, Gibson, Keenan, Kirby,  
Milam, Pittman, Teel, Virgallito, Wooden

Instructors Chapman, Click, Emery, Hobbs, Hungate, Jennings,

McKernan, Meek, Plasterr, Pullen,

Rowe, Savage, Sawaniewski, Stickman, Valentine, Waldron, Wells

Advanced Placement in English is granted on the basis of College Entrance Examination Board (CEEB) Advanced Placement Test scores (see pp. 47-49). 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 extensive reading of literary selections.

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.



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.  
PR: English 102.
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. *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. *Not to be scheduled concurrently with English 300.*  
*Prerequisites for all following 300-400 courses: English 300 and 301.*
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.
377. CREATIVE COMPOSITION. 3 hrs. I.  
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.
414. NINETEENTH CENTURY ENGLISH NOVEL. 3 hrs.  
Austen, Scott, the Brontes, Eliot, Dickens, Thackeray, Trollope, Meredith, Hardy, Butler, Wilde, and their contemporaries.
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 AMERICAN POETRY. 3 hrs.  
Principal poetry since 1900.
436. EARLY AND MEDIEVAL LITERATURE. 3 hrs.  
Nondramatic English literature, exclusive of Chaucer, including Old English prose and poetry, early ballads and lyrics, metrical and prose romances, and the works of Langland and Malory.
437. LITERATURE OF THE RENAISSANCE. 3 hrs.  
Nondramatic prose and poetry, including Sidney, Spenser, Lyly, Dekker, Lodge, Nashe, Greene, and Bacon.
438. ENGLISH LITERATURE OF THE EARLY SEVENTEENTH CENTURY. 3 hrs.  
Nondramatic prose and poetry.
442. AMERICAN NOVEL TO 1900. 3 hrs.  
Historical and critical study from the beginnings.
444. EMERSON, POE, WHITMAN. 3 hrs.  
Prose and poetry of these writers in their literary and intellectual milieu.
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.
- 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 Students, page 57.

## GEOGRAPHY

### TEACHERS COLLEGE

Professors Clagg, Britton

Assistant Professor Gillenwater

Instructor Smith

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 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.
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.
317. WORLD GEOGRAPHICAL PROBLEMS. 3 hrs. I, II, S.  
Agriculture, industry, mining and transportation studied in major countries. Political geography introduced and regional 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.  
Through study of present wastes a plan for wise use of our natural and human resources is developed.
401. HISTORICAL GEOGRAPHY OF THE UNITED STATES. 3 hrs.  
Study of coastal settlements, the population spread through Appalachia and the Mississippi Valley, and the development of inter-mountain and Pacific Coast centers.
403. ECONOMIC GEOGRAPHY OF ASIA. 3 hrs.  
Special attention given activities and environment in continental countries and nearby islands.
405. WORLD POLITICAL GEOGRAPHY. 3 hrs.  
Survey of international relations showing influence of economic-environmental adjustments stressing studies of the United States, Russia, the British Empire, and Germany.
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 numerous cities of the world with local field survey made.
412. GEOGRAPHY OF SOVIET LANDS. 3 hrs.  
Russian agriculture, mining, grazing, industry, and transportation explained in environmental terms.
413. GEOGRAPHY OF THE BRITISH ISLES. 3 hrs.  
Climate, minerals, and land forms checked in explaining major economic activities of the islands.
420. FIELD GEOGRAPHY OF WEST VIRGINIA. 3 hrs.  
Type areas in lumbering, mining, agriculture, and industry checked through field methods.

425. CLIMATOLOGY. 3 hrs.  
Causes and results of regional weather of the world studied under modified Koppen's classification.
429. MAP INTELLIGENCE AND PROJECTIONS. 3 hrs.  
Principles and practice in construction of map grill, use of drafting equipment, and understanding of earth features as shown on a map.
430. APPLIED CARTOGRAPHY. 3 hrs.  
Map making with regard to projection selection, source materials, compilation, restitution, and photo revision.
- 495H-496H. READING FOR HONORS IN GEOGRAPHY. 4; 4 hrs. I, II.  
See Honors Students, page 57.

## GEOLOGY

### COLLEGE OF ARTS AND SCIENCES

(Division of Sciences)

Professor Janssen

Instructors Bonnett, Raczok

200. GENERAL INTRODUCTORY GEOLOGY. 4 hrs. I, II.  
Elementary physical geology; origin and nature of the earth, geological processes, weathering and erosion, volcanoes, earthquakes, mountain building, common rocks and minerals. Field trips. 3 lec-2 lab.
201. HISTORICAL GEOLOGY. 3 hrs. I, II.  
Chronological history and development of the earth, sequence of the geologic ages and rock formations, development and evolution of life as revealed by fossils.  
PR: Geology 200.
310. MAP READING AND INTERPRETATION. 3 hrs. II.  
History of map making, theory of map projections, practice in use of topographic contour maps and aerial photographs. This may not be used to meet specific requirements for the A.B. degree.
313. STRUCTURAL GEOLOGY. 3 hrs.  
Analysis, classification and origin of depositional and deformational structures common to all classes of rocks; their structural history, relationships, and stresses which caused them.  
PR: Geology 201.
314. MINERALOGY. 4 hrs. I.  
Identification, classification, origin, occurrence, and economic uses of minerals; crystallographic forms and blowpipe analysis. 2 lec-4 lab.  
PR: Geology 200.



315. GEOLOGY OF WEST VIRGINIA. 3 hrs.  
Geologic history of the state, its rock formations and included fossils; development of its land features; nature, occurrence and uses of its mineral and rock resources.  
PR: Geology 200 or consent of instructor.
321. PETROLOGY. 3 hrs. II.  
Identification and classification of igneous, sedimentary and metamorphic rocks; their origin and occurrence; their geologic and economic values. 2 lec-2 lab.  
PR: Geology 314.
325. STRATIGRAPHY AND SEDIMENTATION. 3 hrs.  
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.
350. PHYSIOGRAPHY OF NORTH AMERICA. 3 hrs.  
Regional study of the physiographic provinces; nature and classification of the varied surface and scenic features of the continent.  
PR: Geology 200 or consent of instructor.
400. SPECIAL TOPICS IN GEOLOGY. 1 or 2 hrs. I, II.  
Independent study or a project in a selected phase of geology, with results embodied in a report or term paper. Majors and minors only.  
PR: Ten hours of geology.
401. FIELD PROBLEMS IN GEOLOGY. 2 hrs. I, II.  
Independent field work in local geology; field methods and practice, with results embodied in a written field report. Majors and minors only.  
PR: Ten hours of geology.
402. RESEARCH PROBLEMS IN GEOLOGY. 2 hrs. I, II.  
Independent research in a selected phase of geology; research methods and practice, with results embodied in a written report. Majors and minors only.  
PR: Ten hours of geology.
412. CRYSTALLOGRAPHY AND OPTICAL MINERALOGY. 4 hrs. II.  
Identification of crystal systems; determination of crystalline solids by polarizing microscope; application of microscope techniques to geological and industrial problems. 2 lec-4 lab.  
PR: Geology 200.
418. PALEONTOLOGY. 3 hrs.  
Nature and origin of plant and animal fossils; development and evolution of life, its dominant forms through the geologic ages. Recommended for biological science majors.  
PR: Geology 201 or Zoology 212.

## 422. ECONOMIC GEOLOGY. 3 hrs.

Nature, origin, occurrence, and distribution of the world's commercially valuable and useful minerals and rock resources.

PR: Geology 201.

## 451. GEOMORPHOLOGY. 3 hrs.

Geologic nature, origin and classification of the world's land forms as resulting from their structural, orogenic, and erosional history.

PR: Geology 200.

## HISTORY

### COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professors Moffat, Heath

Associate Professor Aldred

Assistant Professors Maddox, Saunders

Instructor Bias

## 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. HISPANIC AMERICA. 3 hrs. I. Alternate Years.

An introduction to the political, economic and cultural history of the Latin-American countries; a concise treatment intended to provide understanding and appreciation of the "other Americas."

## 302. MEXICO, CENTRAL AMERICA AND THE CARIBBEAN AREA: THE 20TH CENTURY. 3 hrs. II. Alternate Years.

Cultural, political and economic development; special attention to the cultural, business and diplomatic relations with the United States.

307. THE HISTORY OF WEST VIRGINIA. 3 hrs. I. Alternate Years.  
A history of West Virginia with emphasis on exploration and settlement, sectionalism and ante-bellum Virginia, the West Virginia statehood movement, and recent economic, social and political development. Open to all undergraduates except those who have had Social Studies 303.
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, 1789-1865. 3 hrs. I, II, S.  
A survey of the political, economic, social and cultural life of the United States from the formation of its government to the end of the Civil War, a description and explanation of the events, movements, principals and principles which marked the "Middle Period" of our country's growth.
313. AMERICAN HISTORY SINCE 1865. 3 hrs. I, II, S.  
A general survey from the close of the Civil War to the present.
314. INDIA AND SOUTHEAST ASIA: MODERN PERIOD. 3 hrs. I. Alternate Years.  
Introduction to the civilization of the area; the establishment of colonial control; liquidation of colonial rule and the readjustment required.
315. THE MIDDLE EAST IN RECENT TIMES. 3 hrs. II. Alternate Years.  
Historical background and cultural development; significance of the Middle East in reference to Europe before World War I; national and international problems of recent years; Israel, the Turkish Republic; Arab unity; basic conflict of East and West.
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.

## 418. EUROPEAN DIPLOMACY. 3 hrs.

Particular attention is given to the period since the French Revolution. Diplomatic history of major continental nations and diplomatic relations with non-European nations is emphasized.

## 421. THE ERA OF THE RENAISSANCE AND THE 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 is 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 Russian foreign policy.

PR: Junior standing.

## 432. AMERICAN HISTORY 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 Students, page 57.

## HOME ECONOMICS

### TEACHERS COLLEGE

Professor Bennett

Associate Professors Neely, Strouss

Assistant Professors Blankenship, Ramsey, Vickers

110. **FOOD SELECTION AND PREPARATION.** 3 hrs. I, II.  
Principles of food selection, preparation and preservation.
112. **CLOTHING.** 3 hrs. I, II.  
Basic principles of clothing selection and construction for the individual, with emphasis on proper fit.
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.
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 104.
329. **ADVANCED CLOTHING.** 3 hrs.  
Psychological, sociological, and economic aspects of clothing for the family; development of proficiency in handling special fabrics and construction processes.  
PR: Home Economics 112 or consent of instructor.
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.

Management theory and application of processes to meet changing family needs through resource use; application of work principles through activity analysis of methods of work in the home.

## 403. ADVANCED NUTRITION. 3 hrs.

Metabolism of food nutrients as related to nutritional requirements of man. Reports of current research and other nutrition topics to add depth and perspective in nutrition.

PR: Home Economics 203, 210.

PR or CR: Chemistry 218.

## 405. QUANTITY FOOD SERVICE. 3 hrs. II.

Experience of application of food preparation principles to quantity food production; menu planning and purchasing; cost control; operation of equipment; service to the public.

PR: Home Economics 110 and 203 or consent of instructor.

## 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 203, Chemistry 104.

## 415. FAMILY RELATIONSHIPS. 3 hrs.

Relationships in the family during its life cycle, with some consideration of family life in other cultures.

PR: Junior standing.

## 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 selection of suitable fabrics and construction processes for particular styles.

PR: Home Economics 329 or consent of instructor.

## 420. HOUSEHOLD EQUIPMENT. 3 hrs.

Principles underlying the selection, use, and care of household equipment.

## 426. HOME MANAGEMENT RESIDENCE. 3 hrs.

Experience in group living and application of principles of management. Reservations must be made a semester in advance.

PR or CR: Home Economics 358.

**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.

**440. NUTRITION IN THE HOME AND SCHOOL. 3 hrs. I.**

Fundamental principles of human nutrition and their application in the home and school. Designed primarily for elementary teachers. (Not open to home economics majors.)

**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; 2-3; 2-3; 2-3; 2-3 hrs.**

Workshop in selected areas of home economics. Ordinarily credit for not more than two workshops may be applied toward the degree.

PR: Senior standing.

**HOME ECONOMICS EDUCATION****306. METHODS IN HOME ECONOMICS EDUCATION. 3 hrs. I, II.**

Designed especially to help students develop personally and professionally, and to plan, develop and carry out effectively a program of vocational home economics in secondary schools.

PR: Education 319.

**406. ADULT HOME ECONOMICS EDUCATION. 3 hrs. I.**

Psychology of adult learning, philosophy, types of programs to include, organization, methods and techniques, and leadership training in working with adult groups.

**450. STUDENT TEACHING IN HOME ECONOMICS. 8 hrs. I, II.**

Directed teaching in an approved off-campus vocational home economics program in a secondary school.

PR: Senior standing.

**INTERDISCIPLINARY STUDIES****295. THE NEGRO IN AMERICAN CULTURE. 3 hrs.**

The Negro in American history, literature, music, art, theater, and anthropology.

**JOURNALISM****COLLEGE OF ARTS AND SCIENCES**

(Division of Social Sciences)

Professors Francois, Pitt

Assistant Professors Blann, Lent

Instructor Arnold

101. SURVEY OF JOURNALISM. 2 hrs. I, II.  
History and practices of mass communications media, including newspapers, radio-TV, advertising, magazines, and public relations. Guest speakers and tours are part of the course.
- 201-202. REPORTING. 3; 3 hrs. I, II.  
Theory and practice in gathering and writing news for the newspaper. Emphasis is placed upon reporting techniques and principles in beginning course. Advanced class studies special reporting areas, such as government, courts, society and sports and explores the concept of depth reporting.
300. HISTORY OF AMERICAN JOURNALISM. 3 hrs. II.  
The development of the press in the United States and in the contributions of American journalists. The periods and changes in ethics and practices in American Journalism.
- 301-302. COPY READING, EDITING. 3; 3 hrs. I, II, S.  
Theory and actual experience in writing headlines, editing copy, and make up. Laboratory work with the Associated Press teletype copy and student newspaper.  
PR: Journalism 201-202.
- 304-305. EDITORIAL WRITING. 2; 2 hrs. I, II.  
A study of contemporary editorials and practice in writing newspaper editorials; discussion and evaluation of editorial page policies within the newspaper industry.
- 308-309. FEATURE WRITING. 2; 2 hrs. I, II, S.  
Actual experience in recognizing, developing and writing news features for student and local newspapers, with and without specific assignments. Exercises in fundamental and advanced techniques.
330. FUNDAMENTALS OF PUBLIC RELATIONS. 3 hrs. II.  
Principles and problems of the public relations practitioner in society; public relations in industry, government, local institutions, education and other areas. A study of the public relations counsel in relation to the public he serves.
335. INDUSTRIAL PUBLICATIONS. 3 hrs. I.  
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.

**350-351. RADIO AND TELEVISION NEWS EDITING. 3; 3 hrs. I, II.**

Theory and practice in compiling and editing news for radio and television broadcasting. Second semester course is largely devoted to audio-visual aids for TV reporters, such as tape recorders and motion picture cameras and film editing.

PR: Journalism 201-202.

**360. NEWS PHOTOGRAPHY. 3 hrs. I, II, S.**

Methods of taking pictures for newspapers and picture editing. Photo-editing, developing and printing required. Course is limited to 15 students with journalism and advertising majors assured of enrollment priority.

**381. NEWSPAPER ADVERTISING PRACTICES. 3 hrs. I, S.**

Organization of newspaper advertising departments and their relationships to advertising agencies and media representative. An examination of the practices and problems of the three areas.

**382. ADVERTISING COPY AND LAYOUT. 3 hrs. II, S.**

Preparation of copy and layout for newspaper and magazine production. Actual practice in obtaining material, writing copy and planning layout of advertisements in local publications.

**402. LAW OF MASS COMMUNICATIONS. 3 hrs. II.**

Technical case study of laws pertaining to mass communications media; study of local and state libel laws as they relate to mass communications; specifically, newspapers, radio and television, and books.

**405. ETHICS OF MASS COMMUNICATIONS. 2 hrs. I.**

The problems, practices and policies of mass communications media in a democratic society. Students study and discuss current issues to better understand the conflicts and positions of the media.

**406. NEWSPAPER INTERNSHIP. 3 hrs. I, II, S.**

Supervised reportorial work on Huntington and other daily newspapers. Conferences for guidance and evaluation at least twice a week.

**412. SEMINAR IN PROBLEMS OF MASS COMMUNICATIONS. 1-3 hrs. I, II.**

By arrangement. For journalism and advertising majors. Students must submit studies on previously approved subjects that are acceptable to the journalism faculty as significant contributions to the field of mass communications.

PR: Senior standing.

**427. JOURNALISTIC ENGLISH. 3 hrs. I, II, S.**

A study of the language of mass communications in contemporary society. Designed primarily for Teachers College English majors, but open to students of all colleges. Actual practice in writing for publications.

**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.

**430-431. MAGAZINE ARTICLE WRITING. 3; 3 hrs. I, II.**

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

PR: English Composition or its equivalent.

**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 Students, page 57.

## **LIBRARY SCIENCE TEACHERS COLLEGE**

Associate Professor Theis

Instructor Cook

**301. THE TEACHER AND LIBRARY SERVICE. 3 hrs. I, II, S.**

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 libraries, including schedules, routines, library housing, publicity, student assistants, equipment, handling of audio-visual 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, Wilson 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, II, 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 with emphasis on story-telling.



**405. BOOK SELECTION FOR ADOLESCENTS. 3 hrs. I, 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: Education 450.

(Students must file an application for permission to enroll in Library Practice. Applicants follow the same procedure as outlined for student teaching on pages 99-100.)

**482-483-484-485. SPECIAL TOPICS. 1-4; 1-4; 1-4; 1-4 hrs.****MATHEMATICS****COLLEGE OF ARTS AND SCIENCES**

(Division of Sciences)

Professors Bauserman, Basie, Hardman

Associate Professors Goins, Jordan, Thompson

Assistant Professors Czompo, Hatfield, Sisarcick

Instructors Cantees, Keller, Peele, Photiades

Assistant Instructor Fraser

**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.**

Exponents and radicals; quadratic equations; ratio, proportion and variation; logarithms; binomial theorem; progressions.

**122. PLANE TRIGONOMETRY. 3 hrs. I, II.**

PR: One unit of plane geometry.

PR or CR: Mathematics 120.

180. **FRESHMAN MATHEMATICS.** 5 hrs. I, II, S.  
A coordinated course in algebra, trigonometry, and analytical geometry, with an introduction to calculus.  
PR: Mathematics 120, or placement test; one unit of plane geometry.
181. **FRESHMAN MATHEMATICS.** 5 hrs. I, II, S.  
Pre-calculus math with introduction to the calculus.  
PR: Mathematics 180 or equivalent.
220. **DIFFERENTIAL AND INTEGRAL CALCULUS.** 4 hrs. I, II.  
Variables, functions, limits, differentiation with applications, introduction to integration with application, indeterminate forms.  
PR: Mathematics 181.
221. **INTEGRAL CALCULUS.** 4 hrs. I, II.  
Methods of integration, applications of definite integrals, approximate integration, infinite series, expansion of functions, multiple integration.  
PR: Mathematics 220.
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 221.
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: Consent of instructor.  
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 and 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 221.
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 221.

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.
- 445-456. **INTRODUCTION TO THEORY OF STATISTICS.** 3; 3 hrs. I, II.  
Probability spaces, random variables, and algebra of expectations; sampling methods; estimation of parameters; tests of hypotheses; analysis of variance.  
PR: Mathematics 221.
448. **FUNDAMENTAL CONCEPTS OF MODERN GEOMETRY.** 3 hrs.  
Finite Geometries, basic background material for the modern development of Euclidean Geometry, other Geometries.  
PR: Mathematics 221 or approval of the department chairman.
449. **PROJECTIVE GEOMETRY.** 3 hrs.  
Projective Geometry using both synthetic and algebraic methods.  
PR: Mathematics 221 or approval of the 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 221 or approval of the 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 221 or approval of the 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 221.

## MEDICAL TECHNOLOGY

### COLLEGE OF APPLIED SCIENCE

Director: Professor Mills

Clinical Professors Werthammer, Sadler

Associate Clinical Professor Sheils

Clinical Instructor Leslie

401. **URINALYSIS AND CLINICAL MICROSCOPY.** (4 wks.) 3 hrs. I.  
Routine urinalysis including microscopic examination, special chemical analysis (bile urobilinogen, etc.). Microscopic examination of gastric contents, feces, sputum, spinal fluid, exudates and transudates.

## 402. BLOOD BANK. (6 wks.) 3 hrs. II.

Pretesting of donors. Practice in bleeding donors. Determining of blood factors including Rh titrations, cross matching, blood bank organization.

## 403. HEMATOLOGY. (8 wks.) 5 hrs. I.

Practice connected with collecting, staining and counting of blood cells. Estimation of hemoglobin and hematocrit; determination of platelets, reticulocytes. Study of blood in disease (blood dyscrasias, leukemias). Blood clotting test; coagulation, bleeding and prothrombin time. Special hematological tests; sedimentation rate, fragility and sickling tests, L. E. cell determinations. Bone marrow preparation.

## 404. BIOCHEMISTRY. (12 wks.) 9 hrs. II.

Technique of venepuncture, training and practice in the use of analytical balance, colorimeter, photometer, spectrophotometer and flame photometer. Preparation of reagents and standard solutions. Practice in the common biochemical medical tests (blood sugar, non-protein-nitrogen, proteinometry, etc.) and the uncommon tests (e.g., sodium, potassium, phosphatases, etc.) Liver and kidney function tests, simple toxicological tests, pregnancy tests.

## 405. BACTERIOLOGY. (6 wks.) 4 hrs. I.

Laboratory work covers agglutinations, planting and transplanting of cultures; animal inoculations, preparation of smears and media utilizing bacteriological material and mycological material from patients. Diagnostic procedure for identification of pathogenic bacteria and fungi. Antibiotic sensitivity studies.

## 406. PARASITOLOGY. (4 wks.) 2 hrs. S.

Laboratory exercises in techniques in use for identification of parasites. Thick film for malaria, concentration techniques for ova and cysts, wet and stained preparations for intestinal parasites, especially of the common pathological forms.

## 407. HISTOTECHNOLOGY. (4 wks.) 2 hrs. S.

Fixation, embedding, sectioning and staining of surgical materials, autopsy tissue and animal tissue. Microtome techniques and mechanical tissue processing methods. Special methods as rapid section preparation (frozen technique) and special stains.

## 408. SEROLOGY. (4 wks.) 2 hrs. S.

Kline, V.D.R.L. and Kolmer Complement Fixation tests, cold agglutinins, heterophile antibody tests. Colloidal gold and mastic tests.

## 409. PHYSIOLOGICAL LABORATORY. (4 wks.) 2 hrs. S.

In addition to routine basal metabolism and electrocardiographic determination techniques and instruction in different apparatus practice in advanced blood gas analysis ( $\text{CO}_2$  and  $\text{O}_2$  contents and capacity). Spirometry and respirometry.

## 410. SEMINARS. (2 wks.) 1 hr. S.

Record keeping, administration and professional relations. Comprises also lectures on medical and hospital ethics, filing and statistical work.

**MILITARY SCIENCE****COLLEGE OF APPLIED SCIENCE**

Professor: Colonel E. R. Mattice

Captain Gregory N. Gorcys, Captain Calvin S. Wood, Jr.

Instructors: SGM. William R. Vernon, Jr., MSG. Blagoe Paul,

SSG. Malcolm H. Van Dyke

**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; counterinsurgency 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 301-302, 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 402 and having one full year of undergraduate work remaining before receiving degree and being commissioned. Two hours per week.

PR: Military Science 401-402.

**MODERN LANGUAGES****COLLEGE OF ARTS AND SCIENCES**

(Division of Humanities)

Professors J. Martin, Lieberman, Perl

Associate Professors Murphy, Noble, Parrish

Assistant Professor Corum

Instructors Carr, Genovese, Knouse, Stump

Assistant Instructor Henry

**French****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.

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, dictées, and conversational practice with emphasis on the oral approach.

PR for 223: French 122 or two units of high school French.

PR for 224: French 223 or three units of high school French.

Open for credit to students presenting four units of high school French.

**241-242. INTERMEDIATE ORAL FRENCH. 2; 2 hrs. I, II.**

Pronunciation, phonetics, oral practice with use of tape recorder and records, vocabulary building, and conversational practice.

PR for 241: French 224 or four units of high school French.

PR for 242: French 241 or consent of instructor.

**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. (1969-70)  
A presentation of the development, spirit, and characteristics of French classicism.  
PR: French 224.
328. 17TH CENTURY LITERATURE. 3 hrs. (1969-70)  
Racine's plays, Descartes, Pascal, and other prose classicists together with La Fontaine, Boileau, and others of the Golden Age.  
PR: French 224.
- 355-356. FRENCH CIVILIZATION AND CULTURE. 2; 2 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. (1970-71)  
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. (1970-71)  
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 Students, page 57.

### German

- 101-102. ELEMENTARY GERMAN. 3; 3 hrs. I, II.  
Grammar, pronunciation, beginning conversation, reading and comprehension. No credit for German 101 without 102.  
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.  
PR for German 203: German 102 or two units of high school German.  
PR for German 204: German 203 or three units of high school German.  
Open for credit to students presenting four units of high school German.
301. DRAMA OF THE 19TH AND 20TH CENTURIES. 3 hrs. I. (1969-70)  
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. (1969-70)  
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. (1969-70)  
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. Not acceptable as part of German major.  
PR: German 203.
- 417-418. SURVEY OF GERMAN LITERATURE. 3; 3 hrs. I, II. (1970-71)  
A study of important literary movements, representative authors and their works. Reading of significant dramas and novels.  
PR for German 417: German 204 or equivalent.  
PR for German 418: German 204 or equivalent.
- 482-483. SPECIAL TOPICS. 2-4; 2-4 hrs. I, II. (1970-71)  
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 Students, page 57.

### Spanish

- 101-102. **ELEMENTARY SPANISH.** 3-3 hrs. I, II, S.  
Pronunciation, intonation, conversation, composition, and reading.  
Also the indicative and subjunctive moods.  
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.  
PR for 203: Spanish 102 or two units of high school Spanish.  
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 strictly 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 discussions in Spanish; 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 in Spanish. Romanticism, realism, and modernism.  
PR: Spanish 204.
406. **HISPANIC CIVILIZATION.** 3 hrs. II.  
A study of the civilization of Spain and of the contributions of Spanish-speaking nations to world culture. Lectures, discussions, and reports. This course is conducted strictly in Spanish.  
PR: Spanish 204.
410. **SPANISH LITERATURE FROM THE CID TO THE 17TH CENTURY.** 3 hrs. II.  
Readings, lectures, reports, and discussions in Spanish 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 in Spanish.  
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 57 for information about Honors courses.

## MUSIC

## TEACHERS COLLEGE

Professors Kingsbury, Shepherd, Wolff

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

Assistant Professors Balshaw, Blatter, DeVos, Folsom, Klausman  
Instructors Heger, Mann, Stacy

## 107-307. CHORAL UNION. 1/2; 1/2 hr. I, II.

The nucleus of the Choral Union is the Symphonic Choir. One or two oratorios or similar works are presented each year. There is 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 the 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.

181 a, b, c, d-381 a, b, c, d. Applied Music. Saxophone . . . . . 1-2; 1-2 hrs. I, II.

182 a, b, c, d-382 a, b, c, d. Applied Music. Flute . . . . . 1-2; 1-2 hrs. I, II.

183 a, b, c, d-383 a, b, c, d. Applied Music. Oboe . . . . . 1-2; 1-2 hrs. I, II.

184 a, b, c, d-384 a, b, c, d. Applied Music. Clarinet . . . . . 1-2; 1-2 hrs. I, II.



185 a, b, c, d-385 a, b, c, d.	Applied Music.	Bassoon . . . . .	1-2; 1-2 hrs. I, II.
186 a, b, c, d-386 a, b, c, d.	Applied Music.	French Horn . . .	1-2; 1-2 hrs. I, II.
187 a, b, c, d-387 a, b, c, d.	Applied Music.	Trumpet . . . . .	1-2; 1-2 hrs. I, II.
188 a, b, c, d-388 a, b, c, d.	Applied Music.	Trombone . . . . .	1-2; 1-2 hrs. I, II.
189 a, b, c, d-389 a, b, c, d.	Applied Music.	Baritone . . . . .	1-2; 1-2 hrs. I, II.
190 a, b, c, d-390 a, b, c, d.	Applied Music.	Tuba . . . . .	1-2; 1-2 hrs. I, II.
191 a, b, c, d-391 a, b, c, d.	Applied Music.	Violin . . . . .	1-2; 1-2 hrs. I, II.
192 a, b, c, d-392 a, b, c, d.	Applied Music.	Viola . . . . .	1-2; 1-2 hrs. I, II.
193 a, b, c, d-393 a, b, c, d.	Applied Music.	Cello . . . . .	1-2; 1-2 hrs. I, II.
194 a, b, c, d-394 a, b, c, d.	Applied Music.	String Bass . . . .	1-2; 1-2 hrs. I, II.
195 a, b, c, d-395 a, b, c, d.	Applied Music.	Piano . . . . .	1-2; 1-2 hrs. I, II.
196 a, b, c, d-396 a, b, c, d.	Applied Music.	Voice . . . . .	1-2; 1-2 hrs. I, II.
197 a, b, c, d-397 a, b, c, d.	Applied Music.	Organ . . . . .	1-2; 1-2 hrs. I, II.
198 a, b, c, d-398 a, 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 the 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 Bands, Stage Band and Brass Ensembles.

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.

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, S.**

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 hrs.****495H-496H. READINGS FOR HONORS IN MUSIC. 4; 4 hrs. I, II.**

Open only to music majors of outstanding ability. Both courses must be taken in order to receive Honors credit.

See Honors Students, page 57.

## MUSIC EDUCATION

**338. 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 inclusive.

**340. 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 inclusive.

**480. MUSIC ADMINISTRATION. 3 hrs.**

The study of the administrative details involved in public school music at all levels and in all types of organizations.

## REQUIREMENTS FOR MUSIC MAJORS

### APPLIED MUSIC

**MAJOR:** All students following the single field music curriculum are required to select a major instrument or voice and complete 14 semester hours in this field, 8 semester hours of lower division courses and 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 must 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.

**ELECTIVE:** Students may elect applied music courses upon approval of the music department, for one hour credit each semester. Two lessons per week with one hour daily preparation.

**SENIOR RECITAL:** All music majors must appear on a senior public 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.

#### 107-307. CHORAL UNION. 1 1/2; 1 1/2 hr. I, II.

The nucleus of the Choral Union is the Symphonic Choir. Qualified and interested people from on and off the campus have been accepted as members. Each year the Choral Union presents, with the Marshall University Orchestra, one or two oratorios or similar major works. In recent years some of the works performed have been: Bach's "Magnificat," Berlioz's "L'enfance du Christ," Verdi's "Requiem," Haydn's "Creation," and Kodaly's "Te Deum." The soloists for these performances have included students, faculty members, and on occasions, outsiders employed especially for the performances. There is one rehearsal per week.

#### 207-407. ENSEMBLE SINGING. 1; 1 hr. I, II.

(Total credit not to exceed 4; 4 hrs.)

Students are assigned to one of the following groups:

**THE SYMPHONIC CHOIR.** The Symphonic Choir is a mixed choir chosen by audition in open competition from the entire student body. This organization comprises the most mature singers on the campus, both vocally and musically, and is dedicated to furnishing high level experience in the performance of great choral literature. In recent years the choir has sung at music conventions in St. Louis, New Orleans, and Richmond among other places. Rehearsals are held daily.

**MEN'S GLEE CLUB.** The Men's Glee Club is open to all male students interested in singing. This group is very active in performing locally and in the entire Tri-State area. The repertory includes a wide variety of literature ranging from the classics to show tunes, folk songs, and spirituals. Rehearsals are held three times per week.



**GIRLS' GLEE CLUB.** The Girls' Glee Club is open to all women students interested in singing. This organization is becoming increasingly in demand as a performing group both on- and off-campus. Literature performed ranges from the classical to semi-classical and musical comedy. Rehearsals are held three times per week.

**A CAPELLA CHOIR.** The A Capella Choir is a mixed choir open to all students. It is essentially a training group for the Symphonic Choir. It does, however, give frequent public performances. Rehearsals are held three times per week.

**208-408. ORCHESTRA.** 1; 1 hr. I, II.

The Marshall Community Symphony is open to all University students, faculty, and interested musicians in the community. Rehearsals, which take place each Monday evening, are conducted by Alfred Lanegger. Concerts, which include the standard symphonic literature, are performed each semester. The orchestra also plays for large choral performances, commencement exercises, University produced operas, and variety shows.

**265-465. BAND.** 1; 1 hr. I, II.

The Marching Band is organized at the beginning of the school year and plays for the football games at home and away. After football season, the concert band is organized and plays several concerts during the year both at the University and at high schools throughout the state.

## **NURSING EDUCATION**

### **COLLEGE OF APPLIED SCIENCE**

Associate Professor Patram

Assistant Professors Asher, Bisato

Instructors Bertram, Kopp, Rife, Wilson

**101. NURSING I.** 6 hrs. I.

Designed to develop an understanding, knowledge and skill 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. II.

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 organization, 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.

### \*PHILOSOPHY

#### COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professor Slaatte

Associate Professor Holden

Assistant Professors Goodwin, 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. II.

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 religions 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.

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\*No courses open to first semester freshmen.

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. II, S.
420. RECENT AND CONTEMPORARY RELIGIOUS THOUGHT. 3 hrs.  
A survey of the major currents of religious thinking in the twentieth century.
421. SEMINAR ON AN OUTSTANDING PHILOSOPHER. 3 hrs. II, S.  
A close-up study of the problem areas of the announced thinker's philosophy; a critical sharing of research findings.  
PR: Permission of Chairman.
425. EARLY POLITICAL THEORY. 3 hrs. I.  
Political thought and philosophy from Plato to the 17th century. (Same as Political Science 425. Taught in Department of Political Science.)
426. RECENT POLITICAL THEORY. 3 hrs. II.  
Political thought and philosophy from the 17th century to the present time.  
(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 problems of mathematics, natural law and the laws of physics.  
PR: Permission of Department Chairman.
493. DIRECTED READINGS IN PHILOSOPHY. 3 hrs. I or II.  
Advanced research adaptable to the needs of the individual student.  
PR: Permission of Department Chairman.
- 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 Students, page 57.

**PHYSICAL EDUCATION**

(Health Education, Recreation, and Safety Education)

**TEACHERS COLLEGE**

Professors Fitch, Josephs, McDonough

Assistant Professor Cook

Instructors Brackett, Crosbie, Cyrus, Epling, Hager, Johnson, Lawson,

McKenzie, Marshall, Prelaz, Saunders, Shaw, Stull, Sylvis, Way

Assistant Instructor Campbell

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.** 1 hr. I, II, S.  
Includes the basic rhythms of marching, calisthenics and the fundamentals of dance routines.
108. **FIELD BALL AND HOCKEY (WOMEN).** 1 hr. I.  
Theory and technique of field ball and hockey.
109. **TRACK (MEN).** 1 hr. II.  
Fundamentals in track and not credit for participating in track.
110. **BASKETBALL.** 1 hr. II.  
Theory and technique of basketball fundamentals and not credit for playing basketball. Separate sections for men and women.
111. **BASEBALL (MEN).** 1 hr. II.  
Theory and technique of baseball fundamentals and not credit for playing baseball.
112. **TRACK, FIELD, AND SOFTBALL (WOMEN).** 1 hr. II.  
Theory, technique and fundamentals of track, field and softball.
- 113-114. **ORIENTATION TO PHYSICAL EDUCATION.** 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.
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.** 1 hr. I, II, S.  
Theory and technique of play. Separate sections for men and women.
207. **ARCHERY AND TENNIS.** 1 hr. I, II, S.  
Theory and technique of play.
209. **INDIVIDUAL AND DUAL SPORTS.** 1 hr. I, II, S.  
Theory, rules, and techniques of handball and bowling.
210. **INDIVIDUAL AND DUAL SPORTS.** 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.  
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.
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 week-ends) for laboratory experiences to be scheduled by the instructor.

## 304. CREATIVE DANCE. 1 hr. I.

Analysis and technique of rhythm of body movement with emphasis upon elementary dance design. Open to men and women.

## 305. CREATIVE DANCE. 1 hr. II.

Continuation of Physical Education 304 with emphasis upon more advanced dance designs. Open to men and women. This course may be taken without the student having had Physical Education 304 where adequate background is present, upon approval of instructor.

## 306. TUMBLING. 1 hr. I.

Fundamentals and practice of stunts, tumbling, and pyramid building. Separate sections for men and women. Offered alternate years for women.

## 309. ADVANCED TUMBLING. 1 hr.

Separate sections for men and women.

## 310. PRACTICUM FOR PHYSICAL EDUCATION 322. 1 hr. I, II, S.

Laboratory work in adapting physical education activities to suit individual needs of physically handicapped students, to improve general physical condition and posture, and to administer remedial exercises where needed. Separate sections for men and women. To be taken with Physical Education 322.

## 311. PHYSICAL EDUCATION FOR SECONDARY SCHOOLS. 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. Separate sections for men and women.

## 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.

Applied anatomy of the human musculature in relation to physical activity. Zoology 315 is recommended as a prerequisite.

## 322. CORRECTIVE 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. To be taken with Physical Education 310.

PR: Physical Education 321.

## 330. RHYTHMIC ACTIVITIES. 1 hr. II, S.

Rhythmic activities for secondary schools.

## 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. 1 hr. I, II.

Development of teaching techniques of team and individual sports. Women only.



341. **METHODS IN RHYTHM.** 1 hr. I, II.  
Development of teaching techniques in rhythm.
401. **ADVANCED CREATIVE DANCE III.** 1 hr. II.  
Course emphasizes more advanced techniques and choreographies based on various approaches and backgrounds as formed in and related to the other fine arts as poetry, sculpture and painting. Open to men and women.  
PR: Physical Education 305.
403. **ADVANCED SWIMMING.** 1 hr. I.  
Instruction and tests for American Red Cross Senior Life Saving. Upon satisfactory completion, Senior Life Saving Certificate issued.
404. **WATER SAFETY INSTRUCTION.** 1 hr. II.  
Materials and methods of teaching American Red Cross Water Safety Course. Upon satisfactory completion, Water Safety Instructor's Certificate issued.  
PR: Physical Education 403 and Senior Life Saving Certificate.
405. **ADVANCED ROUND AND FOLK DANCING.** 1 hr. I.  
Theory and practice of folk dancing and round dancing.
406. **BEGINNING GYMNASTICS.** 1 hr. I.
409. **ADVANCED GYMNASTICS.** 1 hr. II.
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.
418. **INDIVIDUAL OR DUAL SPORTS.** 1 hr. I, S.  
The following sports are offered: Badminton, ping-pong, handball, shuffleboard and horseshoes.  
*Note: Archery, tennis, and advanced swimming are offered in other courses which will meet this requirement.*
- 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 (MEN).** 2 hrs. I, 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.
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.

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.  
A study of the nature and purpose of measurements and evaluation in the fields of health and physical education. Evaluation of available tests and practice in administration of tests. Lec-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.
- 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 course.

### **Safety Education**

Professor Fitch

Associate Professor Mills

Instructor Way

235. **INTRODUCTION TO SAFETY EDUCATION.** (Grades 1-12). 3 hrs. II, S.  
The child accident problem: basic causes, types and areas of accidents; home, farm, recreation, school and vacation accidents; safe practices, control and prevention in the school and the general environment.
236. **TRAFFIC LAW AND ENFORCEMENT.** 2 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 and the influences and responsibilities of traffic law enforcement on present day society.

**385. TRAFFIC SAFETY AND DRIVER EDUCATION. 3 hrs.**

An introductory course in the teaching of safety and driver education, including techniques of classroom and behind the wheel instruction. 1 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.

**490. PROBLEMS AND PRACTICES IN TRAFFIC SAFETY AND DRIVER EDUCATION. 3 hrs.**

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

PR: Safety Education 235 and 385.

**PHYSICS AND PHYSICAL SCIENCE**  
**COLLEGE OF ARTS AND SCIENCES**  
(Division of Sciences)

Professor Martin

Associate Professors Dils, Hanna

Assistant Professors Dumke, Marakkil, L. Plymale, Rutherford, Shanholtzer

**Physics**

**200. INTRODUCTORY PHYSICS. 4 hrs. I, II, S.**

A course which covers the basic principles of classical and modern physics for non-science majors. 3 lec., 2 lab.

PR: Mathematics 110 or 120.

**201-203. GENERAL PHYSICS. 3 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 180.

**201E-203E. GENERAL PHYSICS. 4 hrs. I, II, S.**

A course in general physics for physics, mathematics, and engineering majors. 4 lec.

PR: Mathematics 181.

CR: Mathematics 220.

**202-204. GENERAL PHYSICS LABORATORY. 1; 1 hr. I, II, S.**

Required of all students taking Physics 201-203 and Physics 201E-203E, unless exempt by special permission. 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 221.

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, optical 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 221.
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 221.
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 221.
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 221 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 221.
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 221.
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

- 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 100.
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.
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****COLLEGE OF ARTS AND SCIENCES**

(Division of Social Sciences)

Professors Stewart, Perry

Associate Professors Colie, Choi

Assistant Professor Miller

Instructors Rosswurm, Klein, Zerbe

101. **INTRODUCTORY POLITICAL SCIENCE.** 3 hrs. I, II.  
Survey of basic theories and principles of the state. To acquaint students with political terminologies and elements of governmental institutions.
201. **AMERICAN NATIONAL GOVERNMENT.** 3 hrs. I, II, S.  
Basic course in the processes and institutions of the national government through which the people of the United States govern themselves.
202. **AMERICAN STATE GOVERNMENT.** 3 hrs. I, II, S.  
A study of the government of the fifty states to clarify the institutions, processes and significance of this aspect of the total government process in the United States.
301. **MUNICIPAL GOVERNMENT.** 3 hrs. II.  
Government in American cities and metropolitan regions.
303. **AMERICAN POLITICAL PARTIES.** 3 hrs.  
Study of the political process as a living reality, combining structural description with functional analysis.  
PR: Political Science 201 or 202.
305. **PROBLEMS IN NATIONAL GOVERNMENT.** 3 hrs.  
A study of the fundamental issues underlying the theory and practice of American National Government.  
PR: Political Science 201.
307. **PUBLIC OPINION AND PROPAGANDA.** 3 hrs.  
The nature and measurement of opinion on public affairs and its relation to public policy making.
323. **AMERICAN CONSTITUTIONAL LAW.** 3 hrs. I.  
Leading cases in the development of American constitutional law.  
PR: Political Science 201.
333. **PUBLIC ADMINISTRATION.** 3 hrs.  
Basic principles in the organization and functioning of governmental agencies for the execution of government policies.  
PR: Political Science 201 or 202.

## 371. INTRODUCTION TO THE MIDDLE EAST. 3 hrs.

The fundamental political, religious, and social ideas and institutions that have influenced the internal structure and external relations of Middle Eastern society and government between the rise of Islam and World War I.

## 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 ORGANIZATION. 3 hrs. II.

Special consideration given to the rise and development of international institutions, particularly the League of Nations and the United Nations.

## 406. INTERNATIONAL RELATIONS. 3 hrs. I.

The factors, forces and movements which affect the relations of nations. Special attention is given to the role of the United States in these relations.

## 407. GOVERNMENT AND POLITICS OF EAST ASIA. 3 hrs.

Government and politics of China, Japan and other East Asian nations in the modern international world.

## 408. POLITICS OF THE MIDDLE EAST. 3 hrs.

Detailed examination of the institutions and politics of such states as the United Arab Republic, Turkey, Iran, Iraq, Jordan, Syria, and Israel.

## 409. COMPARATIVE GOVERNMENT: PARLIAMENTARY DEMOCRACIES. 3 hrs.

Origin, development, structure and current operations of the English, French, Swiss and other selected democratic governments. Emphasis on the English system.

## 410. COMPARATIVE GOVERNMENT: COMMUNIST DICTATORSHIPS. 3 hrs.

Detailed examination of the ideology, structure and operations of the modern totalitarian state. Emphasis on the Soviet Union.

## 425. EARLY POLITICAL THEORY. 3 hrs. I.

Political thought and philosophy from Plato to the 17th century.

## 426. RECENT POLITICAL THEORY. 3 hrs. II.

Political thought and philosophy from the 17th century to the present time.

## 440. POWER IN AMERICAN SOCIETY. 3 hrs.

A 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.

## 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 Students, page 57.

**PSYCHOLOGY****COLLEGE OF ARTS AND SCIENCES**

(Division of Social Sciences)

Professors Ward, Loemker, Wolf

Assistant Professor Rivers

Instructors Hausner, McComas

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. 2 lec-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.
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.
450. **PERCEPTION.** 3 hrs. I.  
Critical studies of the major theories of perception and the related research.  
PR: Psychology 324.
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 Students, page 57.

## **SOCIAL STUDIES**

### **TEACHERS COLLEGE**

Professors Cubby, Brown

Associate Professor Felty

Assistant Professors Battistini, Callebs, Cleveland, Karr, Paynter

Instructors 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.  
Integrated social science. A study of the functions of contemporary social, political, and economic institutions.

303. WEST VIRGINIA HISTORY, GEOGRAPHY, AND GOVERNMENT.  
3; 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 department  
chairman.
- 495H-496H. READINGS FOR HONORS IN SOCIAL STUDIES. 4; 4 hrs. I, II.  
See Honors Students, page 57.

## **SOCIOLOGY AND ANTHROPOLOGY**

### **COLLEGE OF ARTS AND SCIENCES**

(Division of Social Sciences)

Professors Simpkins, Habel

Instructors Brandon, Kearney

#### **Anthropology**

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.
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.

#### **Sociology**

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.
302. **SOCIAL PSYCHOLOGY.** 3 hrs.  
(Same as Psychology 302. Taught in the Department of Psychology.)  
PR: Psychology 201.
303. **HUMAN ECOLOGY.** 3 hrs.  
Study of the ecological structure and processes of human communities, regions, and areas.  
PR: Sociology 200.
305. **COMMUNITY ORGANIZATIONS.** 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. **DEVIAN'T 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.
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-2 lab.  
PR: Sociology 200. CR: Sociology 345.
345. **SOCIAL STATISTICS I.** 3 hrs.  
Introduction to statistical analysis of social data. 2 lec-2 lab. (Psychology 223 may be substituted for this course by those whose minor is Psychology.)  
CR: Sociology 344.

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-2 lab.  
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.
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 permission of instructor.
439. **SOCIAL STRATIFICATION.** 3 hrs.  
Analysis of various theories of stratification, with emphasis on the American class system.  
PR: Six hours of sociology or permission of instructor.
442. **METROPOLITAN COMMUNITIES.** 3 hrs.  
Sociology of metropolitan communities.  
PR: Sociology 200, Sociology 332.
445. **SOCIAL STATISTICS II.** 3 hrs.  
Intermediate level statistical analysts, including analysis of variance and covariance. 2 lec-2 lab.  
PR: Sociology 345.
450. **SOCIOLOGY OF RELIGION.** 3 hrs.  
Sociological analysis of religion as a social institution.  
PR: Six hours of sociology or permission of instructor.
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.  
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 Students, page 57.

**SPEECH****COLLEGE OF ARTS AND SCIENCES**

(Division of Humanities)

Professors Harbold, Buell, Dedmon, Hoak, Hope, Ranson, Novak,  
Olson, Page

Associate Professors Billings, Garrett, Kearns, Robertson

Assistant Professors D. Johnson, R. Johnson

Instructors Brown, Compton, Denman, Elmore, Mbiad, McCarnes, McInerney,  
Milicia, Raynor, B. R. Smith, J. Smith, Wheeler

103. **SPEECH FUNDAMENTALS.** 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.
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.
230. **INTRODUCTION TO RADIO AND TELEVISION.** 3 hrs.  
A survey course which provides an overview of the field of broad-  
casting.
231. **RADIO PRODUCTION AND BROADCAST SPEECH.** 3 hrs.  
Training in the operation of radio equipment, microphone technique,  
tape editing and radio production. One hour of laboratory studio work  
at WMUL is required.  
PR: Speech 230.
232. **RADIO-TELEVISION CONTROL ROOM PROCEDURES.** 3 hrs.  
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.  
An introduction to the fundamentals of television production dealing with cameras, microphones, lighting, and staging.  
PR: Speech 103 and 230.
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.
- 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.
330. RADIO, TELEVISION AND SOCIETY. 3 hrs.  
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. 2 hrs. I.  
PR: Speech 230.



333. HISTORY OF BROADCASTING. 3 hrs.  
A survey of the history of radio and television in the United States, including the development of educational broadcasting.  
PR: Speech 103 and 230.
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 COMMUNICATION. 3 hrs.  
Theories of voice production and control; a survey of problems as they relate to phonation and vocal resonance with an emphasis upon voice disorders, laryngectomy and cleft palate.  
PR: Speech 370, 429, 439.
422. SPEECH IN COMMUNICATION. 3 hrs.  
Communication theories underlying the processing and monitoring of speech signals; a survey of speech disorders as a disruption in this system with emphasis upon articulation and stuttering.  
PR: Speech 370, 429, 439.
424. DIAGNOSTIC PROCESSES WITH COMMUNICATION DISORDERS. 3 hrs.  
Evaluation of procedures for securing behavioral information to differentiate among various communication disorders; a study of symptom complexes. Observation and practice in evaluating communication disorders. 2 lec-2 lab.  
PR: Speech 420, 422, 425, 460.

425. LANGUAGE IN COMMUNICATION. 3 hrs.  
Theories of language as communicative behavior; linguistic processes in language; a comparison between normal and impaired language with emphasis on aphasia in children and adults.  
PR: Speech 370, 429, 439.
426. CLINICAL PROBLEMS WITH COMMUNICATION DISORDERS. 3 hrs.  
Case study method; detailed analysis of diagnostic and therapeutic procedures appropriate to an assigned clinic patient.  
PR: Speech 470.
427. CLINICAL PRACTICUM WITH SCHOOL CHILDREN. 6 hrs.  
Supervised clinical practice with school-aged children; fulfills student teaching 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 mechanism.  
PR: Speech 370.
430. BROADCAST DOCUMENTARY AND DRAMATIC WRITING. 3 hrs.  
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.  
Radio and television techniques; programming, announcing, and acting.  
PR: Speech 233.
432. USE OF RADIO AND TELEVISION IN THE CLASSROOM. 3 hrs.  
Development of instructional broadcasting; production and utilization of instructional programs.
433. RADIO AND TELEVISION PROGRAM PLANNING. 3 hrs.  
Planning the individual program for radio and television broadcast. A study of the fundamentals of program structure. Analysis of program forms of local and network shows.  
PR: Speech 230.
435. BROADCAST LAW AND REGULATION. 3 hrs.  
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.  
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.

## 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.

## 450. THE 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.

## 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 Students, page 57.

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**UNIVERSITY HONORS**

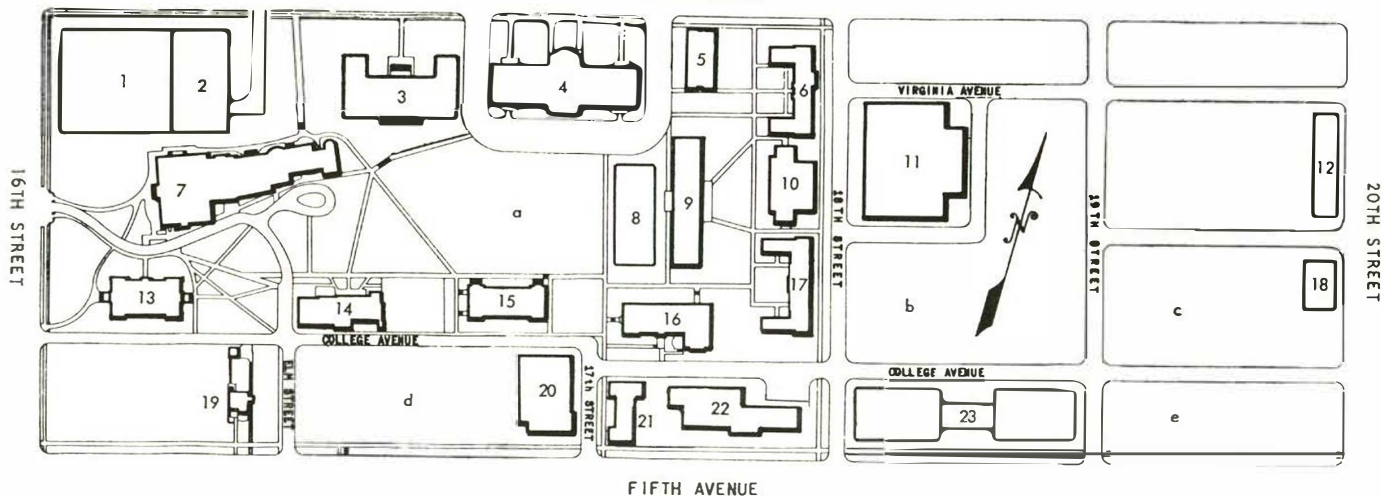
195H-196H.

395H-396H. **INTERDISCIPLINARY HONORS.** 3; 3 hrs.

Seminars designed to provide gifted University students with an exciting and demanding course of study; a Great Issues curriculum which cuts across many areas of knowledge. Open to distinguished freshmen, sophomores and upper classmen in the three undergraduate Colleges. Freshmen are selected as a result of their ACT scores, high school records and a personal interview. Other students may apply for admission to the seminar through the honors committee who will make the final selection. A student may enroll for three to twelve hours.

# MARSHALL UNIVERSITY

THIRD AVENUE



FIFTH AVENUE

## Key

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



# Index

## A

Absences, 55  
Academic Information, 51  
Accounting, 170, 179  
Accreditation, 41  
Administrative Assistants, 33  
Administrative Officers, 6  
Admission, 46-50  
Adult Education, 67  
Advertising Curriculums, 140  
Advisers, Undergraduate, 51  
Advisory Program, 51  
Alumni Affairs, 44  
Alumni Association, 45  
American College Test, 48  
Anthropology, 130, 246  
Art  
    Courses, 173  
    Major, College of Arts and Sciences, 130  
    Major, Teachers College, 107  
Artists Series, 78  
Associate in Arts, 129  
Associate in Science, 167  
Associate in Science in  
    Cytotechnology, 151  
Associate in Science in Nursing, 164  
Athletic Staff, 32  
Athletics, Intercollegiate, 81  
    Intramural, 81  
Audio-Visual Program, 74  
Auditing  
    Credit, 57  
    Fees, 63

## B

Bachelor of Arts, 101, 125-128  
Bachelor of Business  
    Administration, 166  
Bachelor of Engineering Science, 153  
Bachelor of Science, 125-127  
Bachelor of Science in  
    Chemistry, 126, 129  
Bachelor of Science in  
    Cytotechnology, 151

Bachelor of Science in Medical  
    Technology, 151, 157  
Band, 79, 228  
Banking and Finance, 166, 170  
Bible and Religion  
    Courses, 175  
    Major in, 131  
Biological Science  
    Major in, 131  
    Teaching Field, 117  
Biology, Courses, 176  
Board, 62, 70, 72  
Botany  
    Courses, 177  
    Major, 131  
Branch Colleges, 42  
    Staff, 33  
Buildings, 42  
Business, School of, 166  
Business Administration  
    Accounting, 170  
    All Curriculums, 169  
    Bachelor of, 166  
    Banking and Finance, 170  
    Management, 171  
    Courses, 179  
    Marketing, 171  
    Secretarial, 172  
    Teaching Field, 108

## C

Cabell-Huntington Hospital,  
    Laboratory Work in, 151, 157  
Calendar, University, 4  
Campus Christian Center, 38, 43, 80  
Campus Map, 256  
Certificates  
    Journalism, 139  
    Teaching, 101, 104, 105, 106  
Change of Schedule, 51  
Chemistry  
    Advanced Placement, 133  
    Bachelor of Science in, 129, 133  
    Courses, 184  
    Teaching Field, 118

## Index--continued

Choral Groups, 79, 226, 227  
Christian Center, 38, 43, 80  
Classical Languages  
    Courses, 186  
    Major in, 134  
Classification of Engineering  
    Students, 52, 154  
Classification of Students, 48, 51  
College of Applied Science, 151  
College of Arts and Sciences, 125  
Combined College and Professional  
    Degrees, 148  
Community Services, 68  
Computer Center, 37, 44  
Conduct, 75  
Convocations, 78  
Correspondence Directory, 2  
Counseling, 72  
Courses, 173  
Credit  
    Nonresident, 67  
    Semester Hour, Definition of, 51  
    Semester Load, 51  
    Transfer of, 48  
Cytotechnology, 151

### D

Dates, see Calendar, 4  
Dean's List, 57  
Debate, 78  
Dentistry, Preparation for, 150  
Development and Alumni Affairs, 44  
Dietetics, 137  
Dining Hall, 43  
Directory, Correspondence, 2  
Divisions of University, 42

### E

Economics  
    Courses, 188  
    Major in, 134  
Education  
    Courses, 191  
    General Requirements, 102

Elementary, 103  
Professional Laboratory  
    Experiences, 98  
Secondary, 106  
Employment, Student, 74  
Engineering  
    Awards, 154  
    Bachelor of Engineering  
        Science, 153  
Classification of Students, 52, 154  
Courses, 196  
Curriculum, 158  
English  
    Courses, 201  
    Major in, 135  
    Qualifying Examination, 57  
    Teaching Field, 110  
Evening School, 67  
Extension Classes  
    Admission to, 67  
    Credit for, 67  
    Fees for, 67  
    Graduate Credit for, 68  
Extra-Curricular Activities, 78  
Eligibility for, 75

### F

Faculty, 7  
    Retired, 29  
Fairfield Stadium, 44  
Fees  
    Activity, 60  
    Auditing, 63  
    Classification for Assessing, 65  
    Dormitory, 62  
    Enrollment, 60  
    Estimate of Expenses, 62  
    Extension Courses, 61  
    Fractional Hours, 60  
    Per Credit Hour, 60  
    Refunds, 63  
Registration Fees  
    Full-time, Part-time  
    Student, 60

## Index--continued

### Fees, (Continued)

- Resident, Nonresident, 60
- Tuition, 60
- Rent, 62
- Special Fees, 63
- Field House, 44
- Forestry, 135
- Forums, 78
- Fraternities, 71, 82
- French
  - Courses, 222
  - Major, 141
  - Teaching Field, 111
- Freshman
  - Advisors, 51
  - Week, 50
- Full-time Student, Definition of, 51

### G

- General Science, Teaching Field, 117
- Geography
  - Courses, 204
  - Major in, 136
- Geology
  - Courses, 206
  - Major in, 136
- Geology Museum, 71
- German
  - Courses, 223
  - Major in, 141
  - Teaching Field, 111
- Grades and Quality Points, 52
- Graduate Students, 68
- Graduation Fee, 63
- Graduation Requirements
  - Quality Point Ratio, 53
  - Residence, 56
- Greek, Courses in, 186
- Gullickson Hall, 43

### H

- Health and Physical Education
  - Teaching Field, 115
- Health Services, 73
- History of University, 40

### History

- Courses, 208
- Major in, 137
- Hodges Hall, 44
- Home Economics
  - Courses, 211
  - Major in College of Arts and Sciences, 137
  - Teaching Field, 112
- Home Economics Education
  - Courses, 213
- Honors
  - Courses, 57
  - Dean's List, 57
  - Description, 57
  - Engineering, 154
  - Graduation with, 57
  - Organization, 82
  - Seminars, 255

### Housing

- Family Dwelling Units, 71
- Fraternities, Sororities, 71
- Residence Halls
  - Fees, 62
  - Regulations, 69
- Rooming Houses, 71
- Huntington, 42
- Huntington Memorial Field House, 44

### I

- Insurance, Student: Accident and Sickness, 73
- Intercollegiate Athletics, 81
- Interdisciplinary Studies, 213
- International Affairs, 138
- Intramural Athletics, 81

### J

- James E. Morrow Library, 42, 74
- Journalism
  - Courses, 214
  - Curriculum for Teachers, 113
  - Minor Teaching Field, 113
  - Major in, 139
  - Radio-Television, 141

## Index--continued

### K

Kindergarten-Primary, 104

### L

Laboratory School, 98

Laidley Hall, 43

Language Arts, 113

Latin

Courses, 187

Major in, 134

Teaching Field, 111

Law, Preparation for, 148

Liability, 78

Library

James E. Morrow

Library, 42, 74

Resources, 74

Library Science

Courses, 216

Requirements for School

Librarians, 114

Teaching Field, 114

Loans, 77, 90

Location of University, 42

Logan Branch, 42

Lucy Prichard Hall, 44

### M

Marketing, 171

Marshall Alumni Association, 45

Marshall Foundation, 45

Mathematics

Courses, 217

Major in, 141

Teaching Field, 115

Medical Technology

Courses, 219

Curriculum, 157

Medicine, preparation for, 148

Memorial Field House, 44

Military Science, 160

Courses, 221

Modern Languages

French, 141, 222

German, 141, 223

Spanish, 141, 225

Morrow Library, 42, 74

Music

Certificate, 104

Courses, 226

Major in College of Arts and  
Sciences, 141

Major Ensembles, 227

Organizations, 79, 81

Requirements for music majors,

Teachers College, 104

Teaching Field, 104

Music Education

Courses, 229

Music Hall, 43

### N

Noncredit Courses, 57

Nonresident Credit, 67

Nonresident Fees, 60, 61

Northcott Hall, 42

Nursery School, 44, 98

Nursing Education

Courses, 231

Major, 164

### O

Officers of Administration, 6

Old Main, 42

Optometry, Preparation for, 150

Orchestra, 81, 227

Orientation Week, 50

Osteopathy, preparation for, 150

### P

Philosophy

Courses, 232

Major in, 143

Physical Education

Buildings, Women's, Men's, 43

Courses, 234

Major in, 143

Physical Science, 241

## Index--continued

Physics and General Science  
 Courses, 239  
 Major in, 144  
 Teaching Field, 119

Placement

Student Employment, 74

Political Science

Courses, 242

Major in, 144

Pre-Student Teaching, 98

Prichard Hall, 44

Probation

Academic, 55

Disciplinary Action, 76

Professional Laboratory

Experiences, 98

Psychology

Clinic, 73

Courses, 244

Major in, 144

Publications

Academic, 58

Student, 80

Purpose of University, 40

### Q

Quality Points, 52

Qualifying Examination in English

Composition, 57

### R

Radio (see courses under Journalism  
 and Speech)

Radio-Television Journalism

Sequence, 141

Radio Station WMUL, 79

Readmission After Scholastic  
 Deficiencies, 56

Rehabilitation Education, 105

Religion, Bible and, 131, 175

Religious Activities, 81

Religious Center, 38, 43, 80

Religious Counselors, 38

Religious Organizations, 81

Reserve Officers Training Corps (see  
 Military Science)

Residence Halls, 43, 44

Retailing, 168

### S

Safety Education

Courses, 238

Teaching Field, 117

Schedule, Change of, 51

Scholarships, 77, 83

School of Business, 166

Science, Education, 195

Science Building, 42

Science, Teaching Field, 117

Secretarial

Four-year curriculum, 172

Two-year curriculum, 168

Teaching Field, 109

Selective Admissions Policy, 46

Semester Hour, definition, 51

Semester Load, 51

Shawkey Student Union, 78

Social Studies

Courses, 245

Teaching Field, 120

Sociology

Courses, 246

Major in, 145

Sororities, 71, 82

Spanish

Courses, 225

Major in, 141

Teaching Field, 112

Special Education, 105, 195

Speech

Pathology and Audiology, 147

Clinic and Hearing, 74

Courses, 250

Curriculum, 121, 145

Debate and Public Speaking, 78

Major in, 145

Statement of Institutional

Purposes, 40

Student Activities Board, 77



## Index--continued

Student Conduct, 75  
Student Government, 78  
Student Organizations, 81  
Student participation in University-  
    sponsored organizations and  
    activities, 75  
Student Publications, 80  
Student Teaching, 99  
Student Union, 78  
Suspension, 56

### T

Teachers College, 97  
Technologists, Medical, 157  
Television, 146  
Theatre, 79  
Transcripts, 58

Transfer Students, Admission, 48

### U

University Heights Campus, 44  
University Honors, 255  
University Theatre, 79  
University, Withdrawal from, 54

### V-W-Z

Veterinary Medicine, 150  
Williamson Branch, 42  
Withdrawal  
    From Courses, 54  
    From University, 54  
Zoology  
    Courses, 178  
    Major in, 148



1844

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