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UNDERGRADUATE CATALOG

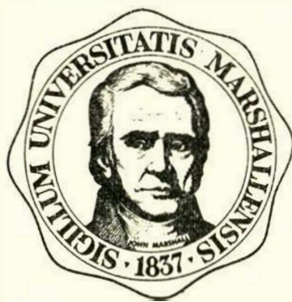
This Bulletin contains information of general value to high school graduates, other prospective students, parents, and students enrolled in Marshall University. Complete information as to entrance requirements, fees and expenses, living accommodations, requirements for graduation, and a brief statement 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
1964-1965

HUNTINGTON, WEST VIRGINIA

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 Development and Alumni Affairs

Business Matters, Expenses

Vice President of Business and Finance

Employment, Placement

Director of Placement

Graduate Study

Dean of the Graduate School

Men's Affairs and Housing

Dean of Men

Scholarships and Loans

Dean of Men

Transcripts, Records

Office of the Registrar

Veterans' Affairs

Veterans' Adviser

Women's Affairs and Housing

Dean of Women

MARSHALL UNIVERSITY BULLETIN

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Teachers College

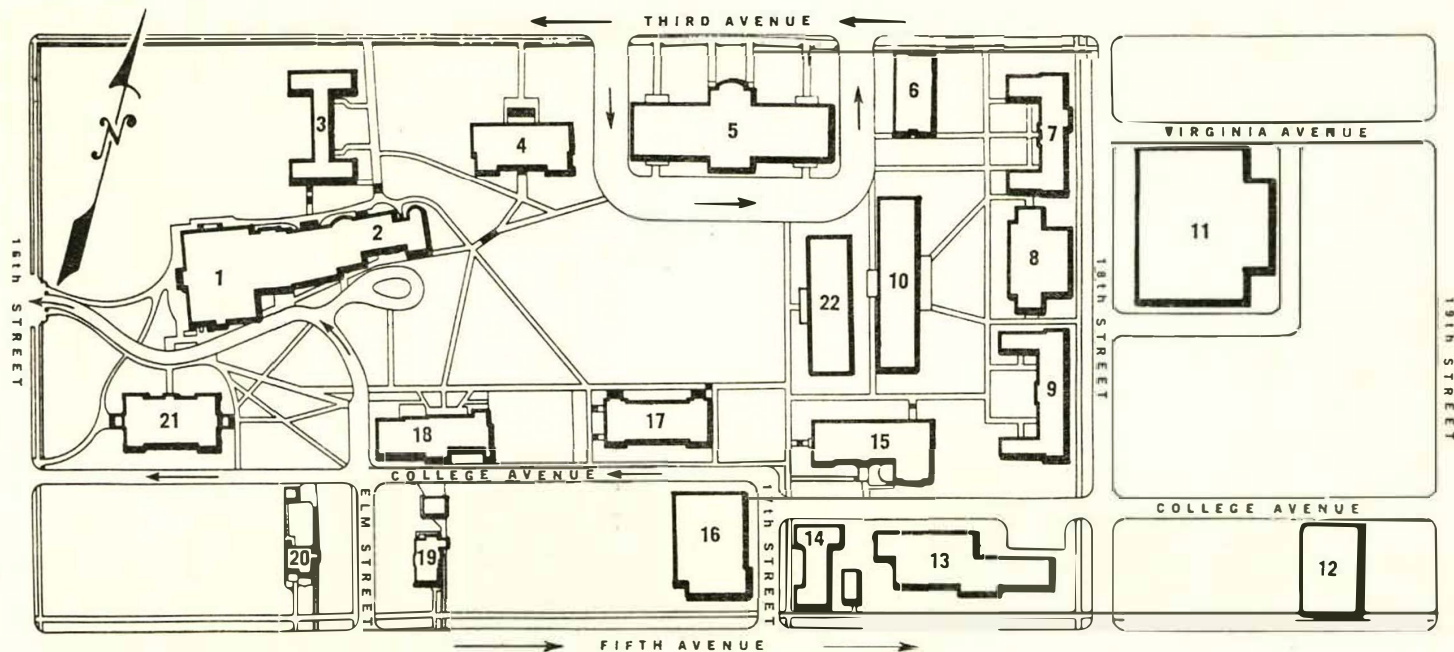
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MAP OF

MARSHALL UNIVERSITY

HUNTINGTON, W. VA.

BUILDINGS

- | | | | |
|---------------------------|-------------------------------|---|---------------------------|
| 1 Old Main | 7 Loidley Hall | 14-15 Albert Gallatin Jenkins Laboratory School | 20 The President's House |
| 2 University Hall | 8 University Dining Hall | 16 Campus Christion Center | 21 Northcott Hall |
| 3 Old Main Annex | 9 Hodges Hall | 17 Women's Physical Education Building | 22 Women's Residence Hall |
| 4 James E. Morrow Library | 10 Lucy Prichard Hall | 18 Showkey Student Union | NOT SHOWN ON MAP |
| 5 Science Building | 11 Otto Gullickson Hall | 19 Everett Hall | Memorial Field House |
| 6 Music Hall | 12 Engineering Building | | Fairfield Stadium |
| | 13 New Residence Hall for Men | | University Heights Campus |

University Calendar 1964-1965

FIRST SEMESTER

September 8-12Orientation and Registration
 September 11, 7:00-9:00 p.m.Registration of Evening Students
 September 14, 8:00 a.m.Classwork Begins
 September 19, 11:30 a.m.Last Day of Late Registration
 November 10Academic Progress Reports Due
 November 25, 12:00 noonThanksgiving Recess
 November 30, 8:00 a.m.Classwork Begins
 December 14-January 9Counseling for Second Semester
 December 19, close of classesChristmas Vacation
 January 4, 8:00 a.m.Classwork Begins
 January 13Advance Registration (Full & Part Time Students)
 January 18-23Semester Examinations
 January 23Semester Ends
 January 25, 4:00 p.m.Semester Grades Due in Registrar's Office

SECOND SEMESTER

February 4-6Orientation and Registration
 February 5, 7:00-9:00 p.m.Registration of Evening Students
 February 8, 8:00 a.m.Classwork Begins
 February 13, 11:30 a.m.Last Day of Late Registration
 March 30Academic Progress Reports Due
 April 15, 12:00 noonEaster Recess
 April 20, 8:00 a.m.Classwork Begins
 April 20-May 15Advance Counseling for First Summer Term
 May 1, 8 & 15, 8:00-11:30 ...Advance Registration for First Summer Term
 May 10-22Advance Counseling for Fall Semester
 May 20Last Class Session of the Semester
 May 21-22Advance Registration for Fall Semester (Full & Part Time)
 May 24-29Semester Examination Period
 May 29Commencement
 May 30Semester Ends
 May 31, 4:00 p.m.Semester Grades Due in Registrar's Office

WEST VIRGINIA BOARD OF EDUCATION Charleston, West Virginia

Term Expires

| | |
|---|------|
| A. H. SPANGLER, <i>President</i> , Bluefield | 1966 |
| CHARLES H. BROWN, <i>Vice President</i> , Kingwood..... | 1969 |
| ANAGENE P. BARTRAM, Kenova..... | 1970 |
| S. J. BASKERVILLE, Charleston..... | 1971 |
| J. C. JEFFERDS, JR., Charleston | 1965 |
| LACY I. RICE, Martinsburg..... | 1967 |
| PERCE J. ROSS, Buckhannon..... | 1968 |
| STEPHEN J. RUSSEK, Wheeling..... | 1964 |
| ARNOLD VICKERS, Montgomery..... | 1972 |
| REX M. SMITH, <i>State Superintendent</i> , Ex-Officio | |
| H. K. BAER, <i>Secretary</i> , Charleston | |

OFFICERS OF ADMINISTRATION

| | |
|---|---|
| STEWART HAROLD SMITH, B.S., M.A., Ph.D., Litt.D., LL.D., L.H.D. | <i>President</i> |
| HAROLD E. WALKER, A.B., B.D., Ph.D. . | <i>Vice President of Academic Affairs</i> |
| JOSEPH S. SOTO, A.B., B.S. | <i>Vice President of Business and Finance</i> |
| DANIEL BANKS WILBURN, A.B., M.A., Ed.D. | <i>Dean, Teachers College</i> |
| JOHN FRANK BARTLETT, A.B., M.A., Ph.D. | <i>Dean, College of Arts and Sciences</i> |
| AMBROSE EVERETT McCASKEY, JR., B.S.C.E., M.S.C.E., Ph.D ... | <i>Dean, College of Applied Science</i> |
| ARVIL ERNEST HARRIS, A.B., M.A., Ph.D. | <i>Dean, Graduate School</i> |
| LILLIAN HELMS BUSKIRK, A.B., M.A. | <i>Dean of Women</i> |
| STANLEY A. SHAW, A.B., M.A. | <i>Dean of Men</i> |
| LUTHER E. BLEDSOE, A.B., M.A. | <i>Registrar and Director of Admissions</i> |
| PAUL H. COLLINS, A.B., M.A. | <i>Administrative Assistant and Director of Adult Education</i> |
| HAROLD WILLIAM APEL, A.B., M.S. in L.S. | <i>Librarian</i> |
| DAVID R. DODRILL, A.B., M.A..... | <i>Director of Information and Publications</i> |
| ROBERT P. ALEXANDER, A.B., M.A. | <i>Director of Placement</i> |

The Faculty*

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

- JABIR ALI ABBAS, *Instructor in Political Science*, 1962
M.A. 1956, Indiana University; graduate study, Indiana University
- JOAN FISHER ADKINS, *Instructor in English*, 1963
M.A. 1961, Marshall University; graduate study, University of Minnesota
- FRANK LAWRENCE AGEE, JR., *Instructor in Psychology*, 1963
M.S. 1963, Oklahoma University
- WILLIAM RUSSELL ALLEN, *Instructor in Physical Education and Assistant Basketball Coach*, 1960
M.A. 1962, Marshall University
- HOMER S. ARHELGER, *Associate Professor of Education*, 1962
Ed.D. 1962, Indiana University
- STANLEY WEST ASH, *Assistant Professor of Science*, 1956
M.A. 1954, Marshall University; graduate study, The University of Pennsylvania
- LOUISE SLAGLE BAILEY, *Assistant Professor of English*, 1961
M.A. 1953, University of Florida; graduate study, University of Florida, University of Tennessee
- JAMES O. BAKER, Staff Sergeant, U.S. Army, *Instructor in Military Science*, 1963
- JOHN FRANK BARTLETT, *Dean of the College of Arts and Sciences and Professor of Chemistry*, 1932
Ph.D. 1932, West Virginia University; postdoctorate study, University of Zurich, University of Edinburgh, and Technische Hochschule in Munich
- 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
- ROBERT LLOYD BECK, *Professor of Philosophy*, 1934
Ph.D. 1931, Cornell University
- JOHN CHARLES BEHRENS, *Instructor in Journalism*, 1963
M.A. 1956, Pennsylvania State University; graduate study, Ohio Wesleyan University
- HARLEY BENNER, JR., *Instructor in Education*, 1962
B.S. 1962, Miami University

*As of December 10, 1963.

CHARLOTTE ELIZABETH BERRYMAN, *Professor of Physical Education*, 1927

M.A. 1926, Columbia University; graduate study, University of Wisconsin, Columbia University

DOMINIC JAMES BISIGNANO, *Assistant Professor of English*, 1963

M.A. 1958, Niagara University; graduate study, New York University

MARTHA DONAHOE BLANKENSHIP, *Instructor in Education*, 1961

M.A. 1957, Marshall University

ALLEN BLUMBERG, *Associate Professor of Education*, 1958

M.Ed. 1952, Wayne State University; graduate study, Syracuse University.

ROBERT LEE VERN BRITTON, *Professor of Geography*, 1930

M.S. 1930, University of Chicago; graduate study, University of Chicago, The Ohio State University

ALVIS BROWN, *Assistant Football Coach, Baseball Coach and Instructor in Physical Education*, 1960

M.A. 1957, Marshall University

JACK RICHARD BROWN, *Professor of English*, 1948

Ph.D. 1937, Northwestern University

MAHLON CARL BROWN, *Associate Professor of Social Studies*, 1955

D.S.S. 1959, Syracuse University

STEPHEN D. BUELL, *Professor of Speech*, 1955

Ph.D. 1962, The Ohio State University

LOUISE BYRUM BURNETTE, *Associate Professor of Home Economics*, 1961

M.S.Ed. 1950, Cornell University; graduate study, Michigan State University

MARY JO BUTLER, *Instructor in Nursing*, 1962

B.S. 1960, Medical College of Virginia

MARY WATROUS BYUS, *Instructor in English*, 1956

M.A. 1956, Marshall University

HILBERT HAYNES CAMPBELL, *Instructor in English*, 1959

M.A. 1960, Marshall University; graduate study, University of Kentucky

MARGARET COLINA CAMPBELL, *Assistant Professor of Education*, 1956

M.A. 1956, George Peabody College; graduate study, George Peabody College

ARTHUR SIDNER CARPENTER, *Professor of Art*, 1951

Ed.D. 1958, Pennsylvania State University

MANOJ RANJAN CHAKRABARTY, *Assistant Professor of Chemistry*, 1963

Ph.D. 1962, University of Toronto

- ELMA SINES CHAPMAN, *Instructor in Business Administration*, 1956
M.A. 1956, Marshall University
- JOHN ADAM CHISLER, *Assistant Professor of Botany*, 1962
Ph.D. 1962, The Ohio State University
- SOO BOCK CHOI, *Assistant 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
- ERNEST W. COLE, *Assistant Professor of Business Administration*, 1955
M.A. 1953, Marshall University; graduate study, University of Pennsylvania
- PAUL H. COLLINS, *Associate Professor of Education and Administrative Assistant*, 1949
M.A. 1943, West Virginia University; graduate study, Harvard University, University of Virginia.
- ELIZABETH COMETTI, *Professor of History*, 1948
Ph.D. 1939, University of Virginia; postdoctorate study, Columbia University
- WILLIAM GLENN COOK, *Assistant Professor of Economics*, 1958
B.A. 1947, University of Wisconsin; graduate study, University of Wisconsin
- GERALD RAY COOMER, *Instructor in English*, 1963
M.A. 1963, Indiana University
- ERIC VANE CORE, *Associate Professor of Education*, 1957
M.A. 1937, West Virginia University; graduate study, University of Virginia
- GEORGE BRUCE CORRIE, *Associate Professor of Economics*, 1948
M.A. 1941, University of North Carolina; graduate study, University of North Carolina
- WILLIAM MICHAEL COX, *Instructor in Art*, 1961
M.Ed. 1961, Miami University
- 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, *Principal of Elementary and High Schools and Assistant Professor of Education*, 1959
M.A. 1946, Marshall University; graduate study, Michigan State University
- JESSIE LEE CROWE, *Instructor in Education*, 1957
M.A. 1952, Marshall University

- EDWIN ALBERT CUBBY, *Associate Professor of Social Studies*, 1949
Ph.D. 1962, Syracuse University
- PHYLLIS HART CYRUS, *Instructor in Business Administration*, 1960
LL.B. 1938, West Virginia University; graduate study, Marshall University
- ELIZABETH HINES CZOMPO, *Assistant Professor of Mathematics*, 1958
M.A. 1939, University of Kentucky; graduate study, University of Kentucky, Purdue University
- NELLIE SMITH DAILEY, *Instructor in Education*, 1946
M.A. 1943, Colorado State College of Education; graduate study, University of Southern California
- 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
- LESLIE MARTZ DAVIS, *Professor of Geography*, 1939
Ph.D. 1935, University of Chicago
- WILLIAM H. DEARBORN, Captain, U.S. Army, *Assistant Professor of Military Science*, 1962
B.S. 1954, Michigan State University; graduate study, Marshall University
- ROBERT VERNON DIGMAN, *Associate Professor of Chemistry*, 1959
Ph.D. 1963, Pennsylvania State University
- ROBERT JOE DOLLGENER, *Assistant Professor of Physical Education*, 1963
M.Ed., North Texas State University, 1961; graduate study, Indiana University
- LYELL VERNON DOUTHAT, *Associate Professor of Education*, 1926
M.A. 1930, The Ohio State University; M.A. 1959, Marshall University
- JOANNE C. DRESCHER, *Associate Professor of Music*, 1950
M.Mus. 1948, Indiana University; graduate study, Florida State University, University of Denver
- CAROLYN FORE DWIGHT, *Associate Professor of Business Administration*, 1938
M.B.A. 1938, The Ohio State University; graduate study, University of Chicago, University of Colorado, The Ohio State University
- STANLEY BOYD EATON, *Assistant Professor of Engineering*, 1957
B.S.E.E. 1931, University of Maine; graduate study, University of Maine, West Virginia University
- RALPH MILTON EDEBURN, *Professor of Zoology*, 1945
Ph.D. 1938, Cornell University

- ELIZABETH ANNE ENGLE, *Instructor in Education*, 1963
A.B. 1960, Marshall University; graduate study, Columbia University
- IRENE CLARK EVANS, *Associate Professor of Business Administration*, 1939
M.A. 1940, Columbia University; graduate study, University of Chicago, University of Kentucky
- WALTER C. FELTY, *Associate Professor of Social Studies and Director of Audio-Visual Aids*, 1950
M.A. 1950, Marshall University; graduate study, Indiana University, Pennsylvania State University
- LEAH JOSEPHINE FIDLER, *Instructor in Library Science*, 1962
M.A. 1959, Indiana University
- WALTER A. FIGGE, Sergeant First Class, U. S. Army, *Instructor in Military Science*, 1963
- DOROTHY A. FISHER, *Professor of Zoology*, 1946
Ph.D. 1942, Cornell University; postdoctorate study, Cornell University, University of North Carolina, University of Minnesota, University of Michigan
- FREDERICK A. FITCH, *Professor of Physical Education*, 1930
M.A. 1932, New York University; graduate study, New York University, Columbia University, Florida State University
- RUBY CALVERT FOOSE, *Associate Professor of Home Economics*, 1946
M.A. 1940, The Ohio State University; graduate study, University of Tennessee
- JUAN C. FORS, *Professor of Spanish*, 1931
Ph.B. 1921, Colegio Nacional; A.B. 1927, Valparaiso University; graduate study, Washington State College, University of Chicago
- WILLIAM EDWARD FRANCOIS, *Assistant Professor of Journalism*, 1959
M.S. 1950, Northwestern University
- RUTH COFFMAN GARRETT, *Associate Professor of Speech*, 1953
M.A. 1946, Ohio University; graduate study, Northwestern University, Ohio University
- ALTA I. GAYNOR, *Professor of Physical Education*, 1962
Ed.D. 1953, Oregon State University
- NEIL LOUIS GIBBINS, *Associate Professor of Education*, 1963
Ph.D. 1960, The Ohio State University
- JAMES PITTARD GILLESPIE, *Assistant Professor of Science*, 1961
M.S. 1955, University of Tennessee; graduate study, Florida State University, University of Michigan
- EDWARD CLAYTON GLASGOW, *Instructor in English*, 1959
M.A. 1942, University of North Carolina; graduate study, West Virginia 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
- 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
- PATRICIA ANN GREEN, *Instructor in Education*, 1953
M.F.A. 1955, Ohio University; graduate study, University of Colorado
- DAVID FLEM GROVES, *Assistant Professor of Engineering*, 1958
M.S. 1942, Columbia University; graduate study, Columbia University
- JANET ROSE HABECKER, *Instructor in English*, 1962
M.A. 1962, Michigan State University
- MARGARET THELMA HAMPEL, *Professor of Education*, 1953
Ed.D. 1938, Columbia 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, *Assistant Professor of Chemistry*,
1963
Ph.D. 1959, West Virginia University
- DENNIS HUNTER HARDMAN, *Professor of Mathematics*, 1946
Ph.D. 1963, University of Pittsburgh
- CHARLES PRICE HARPER, *Professor of Political Science*, 1946
Ph.D. 1937, The Johns Hopkins University
- ARVIL ERNEST HARRIS, *Dean of the Graduate School and Professor of
Political Science*, 1936
Ph.D. 1936, State University of Iowa
- CLARA HAEBERLE HARRISON, *Assistant Professor of Business Adminis-
tration*, 1938
M.A. 1933, The Ohio State University; graduate study, The Ohio State
University, New York University, West Virginia University
- STEVEN HUNTER HATFIELD, *Instructor in Mathematics*, 1963
M.S. 1963, West Virginia University
- CONNIE FAYE HAYES, *Instructor in Physical Education*, 1963
M.A. 1963, University of Kentucky
- HERSCHEL HEATH, *Professor of History*, 1947
Ph.D. 1933, Clark University

- ALBERT LUTHER HESS, *Instructor in Mathematics*, 1962
M.S. 1962, West Virginia University
- 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, *Associate Professor of Chemistry*, 1945
Ph.D. 1947, West Virginia University
- HILLARD RUSSELL HOFFMAN, *Assistant Professor of Education*, 1963
M.S. 1959, Bucknell University; graduate study, Pennsylvania State University
- BEN WALTER HOPE, *Professor of Speech*, 1947
Ph.D. 1960, The Ohio State University
- CHARLES GLENN HOUSTON, *Assistant Professor of English*, 1961
M.A. 1948, University of Pittsburgh; graduate study, University of Pittsburgh
- LOUISE PRICE HOY, *Assistant Professor of Classical Languages*, 1963
Ph.D. 1952, Bryn Mawr
- MAURICE NEILL HUNGIVILLE, *Instructor in English*, 1963
M.A. 1962, Western Reserve University; graduate study, University of Tennessee
- HELEN SCOTT HUNTER, *Assistant Professor of Education*, 1957
M.A. 1956, Marshall University; graduate study, University of Michigan
- EPIFANIO IANNELLO, *Instructor in Education*, 1960
M.A.Ed. 1956, West Virginia University; graduate study, West Virginia University, Ball State Teachers College, University of Kansas
- THOMAS DALE IGOU, *Instructor in Science*, 1963
A.B. 1963, Marshall University; graduate study, 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, *Associate Professor of Education*, 1959
Ph.D. 1958, The Ohio State University
- JOSEPH S. JABLONSKI, *Professor of Art*, 1929
M.A. 1925, Harvard University; graduate study, University of Cincinnati
- RAYMOND ELLSWORTH JANSSEN, *Professor of Geology*, 1942
Ph.D. 1939, University of Chicago
- PEGGY PAULINE JARRETT, *Assistant Professor of Education*, 1959
M.A. 1953, West Virginia University; graduate study, West Virginia University

BRADFORD LAND JENKINS, *Instructor in English*, 1963

M.A. 1963, Michigan State University

LOUIS BROWN JENNINGS, *Associate Professor of Bible and Religion*, 1948

B.D. 1945, Crozer Theological Seminary; graduate study, University of Chicago, University of Pennsylvania

JOHN ALEXANDER JENSEN, *Associate Professor of Psychology*, 1963

Ph.D. 1952, Vanderbilt 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, *Instructor in Speech*, 1961

M.S. in Ed. 1961, Northern Illinois University

LAVELLE THOMPSON JONES, *Assistant Professor of Music*, 1947

M.A. 1942, George Peabody College; graduate study, George Peabody College, University of Denver, Cincinnati Conservatory of Music, Temple University, University of Maine

OLEN JONES, *Assistant Football Coach and Instructor in Physical Education*, 1960

M.A. 1960, Marshall University

BERFITT JORDAN, *Assistant Professor of Mathematics*, 1960

M.A. 1947, Marshall University; graduate study, Cornell University, West Virginia University, University of Colorado

MICHAEL B. JOSEPHS, *Professor of Physical Education*, 1953

Ph.D. 1950, University of Pittsburgh

DAVID HERBERT KARRFALT, *Instructor in English*, 1963

M.A. 1963, Southern Illinois University

CHARLES EDWARD KAUTZ, *Instructor in Physical Education and Assistant Coach*, 1961

M.A. 1952, Marshall University

WILLIAM GALLATIN KEARNS, *Assistant Professor of Speech*, 1956

M.A. 1955, Ohio University; graduate study, Ohio University

LAWRENCE M. KELLY, Major, U. S. Army, *Assistant Professor of Military Science*, 1961

B.S. 1951, United States Military Academy; graduate study, Xavier University

JUNE QUILLIN KILGORE, *Instructor in Education*, 1959

M.A. 1962, Marshall University; graduate study, George Peabody College

CHARLES LAWRENCE KINGSBURY, *Professor of Music*, 1950

Ed.D. 1945, Indiana University

- LOUISE THORP KIRBY, *Instructor in English*, 1959
M.A. 1959, Marshall University; graduate study, The University of Virginia
- ELIZABETH MAY KOLETKA, *Instructor in Social Studies*, 1961
M.A. 1927, Columbia University
- RUFUS L. LAND, *Associate Professor of Economics*, 1946
M.A. 1948, Marshall University; graduate study, University of Virginia, The Ohio State University, University of Pittsburgh.
- ALFRED P. LANEGGER, *Associate Professor of Music*, 1947
M.M. 1947, Syracuse University; diploma, State Academy of Music, Munich
- 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 German*, 1946
Ph.D. 1943, University of Cincinnati
- ANNA VIRGINIA LOCKE, *Associate Professor of Library Science and Librarian*, 1953
M.A. 1948, Western Reserve University; M.S. in L.S. 1955, Western Reserve University
- KENNETH KARL LOEMKER, *Professor of Psychology*, 1930
Ph.D. 1941, University of Chicago
- AMBROSE EVERETT McCASKEY, *Dean, College of Applied Science and Professor of Engineering*, 1936
Ph.D. 1955, University of Wisconsin
- JAMES ALLEN McCUBBIN, *Assistant Professor of Speech*, 1948
M.A. 1948, Western Reserve University
- LOUISE McDONOUGH, *Professor of Physical Education*, 1929
M.A. 1929, Columbia University; graduate study, Columbia University, State University of Iowa
- EUGENIA ROE McMULLEN, *Associate Professor of Music*, 1945
M.A. 1947, Columbia University; graduate study, Columbia University, Juilliard School of Music, Cincinnati Conservatory of Music
- ALEX MacKENZIE, Master Sergeant, U. S. Army, *Sergeant Major and Instructor in Military Science*, 1963
- DONALD CLAYTON MARTIN, *Professor of Physics*, 1943
Ph.D. 1936, Cornell University; postdoctorate study, Northwestern University, University of New Mexico
- JOHN LEWIS MARTIN, *Professor of Spanish*, 1935
Ph.D. 1940, University of Pittsburgh

- VERA M. MARTIN, *Assistant Professor of Psychiatric Nursing*, 1961
M.S. 1959, University of Pennsylvania
- SHIRLEY FOSTER MATHEWS, *Instructor in Education*, 1945
M.A. 1944, University of Wisconsin; graduate study, University of Southern California, University of Wisconsin
- GEORGE MINSKER MENDENHALL, *Instructor in Engineering*, 1960
B.E.S. 1960, Marshall University; graduate study, West Virginia University, Louisiana Polytechnic Institute
- EDITH WARFE MILAM, *Instructor in English*, 1958
M.A. 1955, Marshall University; graduate study, George Peabody College, Morehead State College
- 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
- JOHN HAWES MILLER, *Instructor in Spanish*, 1960
A.B. 1949, Marshall University; graduate study, Marshall University, University of Mexico, Hollins College, The Ohio State University
- HOWARD LEONARD MILLS, *Professor of Botany*, 1951
Ph.D. 1951, State University of Iowa
- JOHN BRUBAKER MINICK, *Professor of Economics*, 1960
Ph.D. 1959, University of Southern California
- DORA MAY MITCHELL, *Assistant Professor of Education*, 1951
M.A. 1939, George Peabody College; graduate study, George Peabody College
- MARVIN O'NEILL MITCHELL, *Professor of English*, 1952
Ph.D. 1953, University of North Carolina
- PHILIP EUGENE MODLIN, *Assistant Professor of Science*, 1957
M.A. 1957, Marshall University; graduate study, West Virginia University
- CHARLES HILL MOFFAT, *Professor of History*, 1946
Ph.D. 1946, Vanderbilt University
- DUANE MILTON MOORE, *Assistant Professor of Geology*, 1963
Ph.D. 1963, University of Illinois
- GORDON GEORGE MOORE, *Assistant Professor of Chemistry*, 1962
Ph.D. 1962, Yale University
- PATRICK H. MORGAN, Lieutenant Colonel, U. S. Army, *Professor of Military Science*, 1962
B.S. 1942, North Carolina State College

- WOODROW WILSON MORRIS, *Professor of Education*, 1950
Ph.D. 1954, The Ohio State University
- HAROLD TIMOTHY MURPHY, *Assistant Professor of Spanish*, 1960
M.A. 1955, Vanderbilt University; graduate study, University of Guanajuato, Mexico, Western Reserve University
- REVA BELLE NEELY, *Associate Professor of Home Economics*, 1946
M.Ed. 1946, Colorado Agricultural and Mechanical College; graduate study, The Ohio State University, Michigan State University
- ALMA NEASE NOBLE, *Associate Professor of French*, 1941
Ph.D. 1938, The Ohio State University
- REGINALD DUSTON NOBLE, *Instructor in Science*, 1962
M.A. 1960, Marshall University; graduate study, The Ohio State University
- ELAINE ADAMS NOVAK, *Associate Professor of Speech*, 1956
Ph.D. 1963, The Ohio State University
- LAWRENCE HOWARD NUZUM, *Professor of Education*, 1947
Ed.D. 1959, University of Tennessee
- THOMAS S. O'CONNELL, *Associate Professor of Music*, 1948
M.M. 1947, University of Michigan
- GEORGE ROBERT OETGEN, *Instructor in English*, 1963
M.A. 1962, Bowling Green State University
- THOMAS WILLIAM OLSON, *Instructor in Engineering*, 1955
B.E.S. 1955, Marshall University; graduate study, West Virginia University
- JUDITH McCULLOUGH OSBOURNE, *Instructor in Nursing Education*, 1961
B.S. 1960, Alderson-Broadbush College
- CLAYTON R. PAGE, *Associate 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 French*, 1947
M.A. 1940, University of Kentucky; graduate study, University of Kentucky
- WALTER H. PERL, *Professor of German*, 1948
Ph.D. 1936, University of Zurich
- SIMON DANIEL PERRY, *Assistant Professor of Political Science*, 1962
Ph.D. 1960, Michigan State University
- GERALD ROE PHILLIPS, *Associate Professor of Social Studies*, 1948
M.A. 1947, University of Minnesota; graduate study, University of Minnesota

- ETHEL DULANEY PILTZ, *Instructor in Business Administration*, 1960
M.Ed. 1949, University of Pittsburgh; graduate study, Ohio University
- WILLIAM PAGE PITT, *Professor of Journalism*, 1926
M.S.J. 1930, Columbia University
- BENJAMIN FRANCIS PLYBON, *Instructor in Mathematics*, 1959
M.S. 1959, Carnegie Institute of Technology; graduate study, The Ohio State University
- EDWARD LEWIS PLYMALE, *Professor of Botany*, 1946
Ph.D. 1942, State University of Iowa
- JAY P. PORTER, Master Sergeant, U. S. Army, *Instructor in Military Science*, 1962
- EDWARD JAMES PRELAZ, *Instructor in Physical Education and Assistant Coach and Trainer*, 1954
M.A. 1946, West Virginia University
- WILBUR F. PURSLEY, *Associate Professor of Music*, 1950
Ph.D. 1962, Eastman School of Music
- MARILYN RUTH PUTZ, *Assistant Professor of English*, 1956
M.A. 1955, Vanderbilt University and George Peabody College; graduate study, Vanderbilt University, Instituto Alende San Miguel de Allende, Mexico, George Peabody College, Morehead State College
- BERNARD QUEEN, *Assistant Professor of Education*, 1963
M.A. 1952, Marshall University
- ALLEN OTIS RANSON, *Professor of Speech*, 1931
M.S. 1935, University of Wisconsin
- WALTER EDWIN REGULA, *Assistant Professor of Mathematics Education*, 1962
M.A. 1949, Kent State University; graduate study, The Ohio State University
- JAMES TULL RICHARDSON, *Professor of Sociology*, 1949
Ph.D. 1943, University of Missouri
- CHARLES CASS RITCHIE, JR., *Assistant Professor of Education*, 1959
Ed.D. 1963, West Virginia University
- KATHLEEN ROBERTSON, *Associate Professor of Speech*, 1946
M.A. 1936, Northwestern University; graduate study, Northwestern University
- RONALD GENE ROLLINS, *Assistant Professor of English*, 1960
Ph.D. 1960, University of Cincinnati
- MARTHA BOHART RUMMELL, *Instructor in Education*, 1938
M.Ed. 1938, University of Cincinnati

- ORA ERWIN RUMPLE, *Professor of Chemistry*, 1947
Ph.D. 1937, Indiana University; postdoctorate study, Indiana University
- CHARLES SHELBY RUNYAN, *Professor of Education*, 1953
Ed.D. 1953, University of Missouri
- FLORA ROSS RUSSELL, *Instructor in Sociology*, 1963
M.A. 1963, Marshall University
- HARRY DAVID RUSSELL, *Instructor in Speech*, 1962
M.A. 1962, Ohio University
- JAMES WOODROW RUTHERFORD, *Instructor in Education*, 1960
M.S. 1950, West Virginia University
- WALTER SAWANIEWSKI, *Instructor in English*, 1963
M.A. 1963, Marshall University
- RICHARD K. SCHALL, *Assistant Professor of Music*, 1963
M.Mus. 1955, Indiana University; graduate study, University of Kansas
- LEON ARTHUR SEARS, *Assistant Professor of Mathematics*, 1958
M.A. 1925, University of Michigan
- BERKELEY ROWE SHAFER, *Instructor in Physics*, 1943
B.S.E.E. 1927, University of Michigan
- JANE BOEDEKER SHEPHERD, *Associate Professor of Music*, 1958
M.M. 1942, Cincinnati Conservatory; graduate study, Juilliard School of Music
- O. NORMAN SIMPKINS, *Professor of Sociology*, 1948
Ph.D. 1953, University of North Carolina
- HERROL JAMES SKIDMORE, *Associate Professor of Engineering*, 1962
Ph.D. 1948, University of Iowa
- JACK D. SMITH, *Instructor in Art*, 1961
M.Ed. 1962, Miami University; Traphagen School of Fashion; graduate study, Miami University
- MARGARET DAVIS SMITH, *Instructor in Education*, 1958
M.A. 1961, Marshall University
- THELMA THOMAS SMITH, *Assistant Professor of Education*, 1950
M.A. 1950, Marshall University
- WALTER THOMAS SMITH, *Instructor in Education*, 1960
M.Ed. 1958, University of Pittsburgh; graduate study, Franklin and Marshall College
- CHARLES COLBERT SNYDER, *Head Football Coach*, 1959
A.B. 1948, Marshall University; graduate study, Marshall University
- MARY VIRGINIA SPENCER, *Instructor in Nursing*, 1961
B.S. 1953, Medical College of Virginia

- BENNIE WILLIAM STEHR, *Associate Professor of Business Administration*, 1962
Ed.D. 1958, Colorado State College
- PAUL DEKKER STEWART, *Professor of Political Science*, 1948
Ph.D. 1948, Duke University
- SAMUEL TURLEY STINSON, *Associate Professor of Engineering*, 1940
M.S.E. 1950, University of Michigan; graduate study, Virginia Polytechnic Institute
- 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
- BETTY JO SULLIVAN, *Instructor in Home Economics*, 1962
M.S. 1956, Michigan State University; graduate study, The Ohio State University
- JAMES PATRICK SULLIVAN, *Assistant Professor of History*, 1963
M.A. 1958, University of Louisville; graduate study, University of Kentucky
- MARGARET HASSNER SWANN, *Instructor in Education*, 1960
M.A. 1959, Marshall University
- LAYTON OSCAR THOMPSON, *Assistant Professor of Mathematics*, 1955
M.Sc. 1955, West Virginia University
- ERIC PAUL THORN, *Assistant Professor of English*, 1956
M.A. 1956, Brooklyn College; graduate study, New York University
- NEIL A. TUCKER, *Instructor in Business Administration*, 1963
M.S. 1963, Virginia Polytechnic Institute
- A. MERVIN TYSON, *Professor of English*, 1959
Ph.D. 1952, University of Pennsylvania
- BEULAH BAKER VIRGALLITO, *Instructor in English*, 1960
M.A. 1960, Marshall University; graduate study, The Ohio State University
- HENRY M. VOSBEIN, JR., Captain, U. S. Army, *Assistant Professor of Military Science*, 1963
B.S. 1954, Loyola University of the South
- GEORGE WARD II, *Associate Professor of Psychology*, 1962
Ph.D. 1961, The Ohio State University
- HAROLD EUGENE WARD, *Associate Professor of Science*, 1950
M.A. 1951, Marshall University; graduate study, Michigan State University, The Ohio State University
- FRANCES WHALEN WHELPLEY, *Professor of Chemistry*, 1946
Ph.D. 1931, Columbia University

DANIEL BANKS WILBURN, *Dean of the Teachers College and Professor of Education*, 1947

Ed.D. 1945, The George Washington University

HAROLD LEE WILLEY, *Associate Professor of Education*, 1946

Ed.D. 1958, University of Tennessee

ELIZABETH BAKER WOLF, *Associate Professor of Psychology*, 1960

Ph.D. 1946, Western Reserve University

ROBERT DELL WOLFF, *Associate Professor of Music*, 1963

Ed.D. 1960, Columbia University

JOHN HENRY WOTIZ, *Professor of Chemistry*, 1962

Ph.D. 1948, The Ohio State University

BERNICE FRANCES WRIGHT, *Associate Professor of Mathematics*, 1946

M.A. 1929, University of Michigan; graduate study, University of Washington

WILLIAM MICHAEL ZBAN, *Instructor in Education*, 1963

M.A. 1960, Marshall University

MEDICAL TECHNOLOGY

MARIE GARRETT, *Assistant Clinical Professor of Medical Technology*, 1961

B.S. 1942, Marshall University; M.T. (ASCP); graduate study, Medical College of Virginia

JASPER EVANS SADLER, *Clinical Professor of Medical Technology*, 1956

M.D. 1950, University of Cincinnati

SIEGFRIED WERTHAMMER, *Clinical Professor of Medical Technology*, 1956

M.D. 1937, University of Vienna

PART-TIME STAFF MEMBERS

JACQUELINE CORUM, *Instructor in French*

M.A. 1963, Marshall University

EARL DORSEY, JR., *Instructor in Social Studies*

M.A. 1948, Marshall University

WILLIAM M. FRAZIER, *Instructor in Business Administration*

LL.B. 1954, West Virginia University

W. GENE FRUM, *Instructor in Zoology*

M.S. 1949, West Virginia University

GRACE GREENAWALT, *Instructor in Business Administration*

M.A. 1951, Marshall University

ROBERT V. GRIFFIS, *Instructor in Education*
M.A. 1956, Marshall University

DWIGHT B. HEINZ, *Instructor in Education*
M.A. 1958, Marshall University

DOROTHY R. JOHNSON, *Instructor in Speech*
M.A. 1947, University of Pennsylvania; M.A. 1948, Northwestern University

KYLE G. McMULLEN, *Instructor in Business Administration*
B.S. 1952, Marshall University; CPA 1960

MARY ANN MARPLES, *Instructor in Science*
M.A. 1953, Columbia University

ARGIE M. MOORE, *Instructor in Education*
M.A. 1949, Marshall University

PAULINE MOSS, *Instructor in Business Administration*
M.A. 1935, West Virginia University

MARGARET G. PHILLIPS, *Instructor in Education*
M.A. 1937, The Ohio State University

LYLE F. PLYMALE, *Instructor in Science*
M.A. 1948, Marshall University

NORMAN E. ROOD, *Instructor in Business Administration*
LL.B. 1952, West Virginia University

NADA PARSONS STEELMAN, *Instructor in Business Administration*
A.B. 1946, Marshall University

RACHEL HADLEY STOREY, *Director, Workshop in Flower Arrangement*

RUTH SUTHERLAND, *Instructor in Education*
M.A. 1953, Marshall University

CHARLES TANNER, *Instructor in Science*
M.A. 1959, Marshall University

MARY THEODORE, *Instructor in Business Administration*
M.A. 1956, Marshall University

ROBERT A. TOOTHMAN, *Instructor in Business Administration*
B.S. 1943, Bowling Green State University, CPA

AMY KAISER VARNUM, *Instructor in Science*
M.A. 1961, Marshall University

RETIRED FACULTY

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

| | |
|---|-----------|
| EDITH WILSON AMICK, <i>Instructor in Education</i> | 1913-1955 |
| JAMES J. BARRON, <i>Professor of Mathematics</i> | 1946-1963 |
| ELSWORTH VACHEL BOWERS, <i>Dean of the College of Arts and Sciences and Professor of Psychology</i> | 1924-1945 |
| 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 |
| ANNA LAURA DeNOON, <i>Professor of Mathematics</i> | 1909-1947 |
| MARGARET VIRGINIA FOULK, <i>Professor of Education</i> | 1929-1950 |
| CLEO MARGARET GRAY, <i>Associate Professor of Home Economics</i> | 1947-1962 |
| OTTO ANDREW GULLICKSON, <i>Professor of Physical Education</i> | 1930-1963 |
| ALBERT ROBERTS HALLEY, <i>Professor of English</i> | 1926-1946 |
| INA WOODFORD HART, <i>Instructor in Education</i> | 1928-1957 |
| HELEN BRANDEBURY HARVEY, <i>Associate Professor of English</i> | 1942-1959 |
| LOUISE FAY HAWORTH, <i>Instructor in Voice</i> | 1901-1945 |
| HAROLD M. HAYWARD, <i>Professor of Sociology</i> | 1938-1962 |
| RALPH PRESTON HRON, <i>Professor of Physics</i> | 1920-1951 |
| ERNESTINE TABOR JONES, <i>Assistant Professor of English</i> .. | 1948-1961 |
| 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 |
| 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 |
| LUCY ELIZABETH PRICHARD, <i>Professor of Latin</i> | 1914-1941 |
| 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 |
| JAMES BLAINE SHOUSE, <i>Professor of Education, Dean of Teachers College</i> | 1920-1945 |
| RUSSELL B. SMITH, <i>Professor of Education</i> | 1949-1959 |
| JOHN L. STENDER, <i>Associate Professor of English</i> | 1929-1963 |
| H. GRESHAM TOOLE, <i>Professor of History</i> | 1925-1963 |
| HENRIETTA HEPBURN TYLER, <i>Assistant Professor of English</i> | 1946-1956 |
| FLORENCE H. VanBIBBER, <i>Professor of Psychology</i> | 1938-1957 |
| KATHERINE WEHLER, <i>Professor of English</i> | 1922-1953 |
| MARY ANN WILLIAMSON WHITE, <i>Associate Professor of English</i> | 1934-1958 |
| LUCY ADELE WHITSEL, <i>Professor of Classical Languages</i> | 1929-1963 |
| ROY CLEO WOODS, <i>Professor of Education</i> | 1927-1963 |

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> |
| Jean Alice Weekley, A.B. | <i>Library Assistant (Reference)</i> |
| Garnet L. Chambers, A.B. | <i>Library Assistant (Circulation)</i> |
| Ruth Layne Cline, B.S. | <i>Library Assistant (Circulation)</i> |
| Pauline D. Jouan | <i>Library Assistant (Circulation)</i> |
| L. Ruth Wooten | <i>Library Assistant (Cataloging)</i> |
| Delores M. Wise | <i>Library Assistant (Serials)</i> |
| Sylvia B. Dillard | <i>Secretary</i> |
| Mary Virginia McDonough | <i>Clerk</i> |

ATHLETIC DEPARTMENT

| | |
|-------------------------------------|--|
| Neal B. Wilson, A.B., LL.B. | <i>Director of Athletics</i> |
| Raymond Cumberledge, Jr., A.B. | <i>Assistant Athletic Director</i> |
| Betty Atkins | <i>Secretary and Ticket Manager</i> |
| Charles C. Snyder, A.B. | <i>Head Football Coach</i> |
| Forest Underwood, A.B., M.A. | <i>Assistant Football Coach</i> |
| Edward Prelaz, A.B., M.A. | <i>Assistant Football Coach, Wrestling Coach, and Trainer—All Sports</i> |

| | |
|-----------------------------------|--|
| Olen Jones, A.B., M.A. | <i>Assistant Football Coach</i> |
| Alvis Brown, A.B., M.A. | <i>Assistant Football Coach and Baseball Coach</i> |
| Charles K. Kautz, A.B., M.A. | <i>Freshman Football Coach and Track Coach</i> |
| Ellis Johnson, A.B., M.A. | <i>Head Basketball Coach</i> |
| William R. Allen, A.B., M.A. | <i>Freshman Basketball Coach and Cross Country Coach</i> |
| Roy V. Graham, Jr. | <i>Golf Coach</i> |
| John Noble, A.B. | <i>Tennis Coach</i> |

LABORATORY SCHOOL

| | |
|------------------------------------|-------------------------------|
| Taylor V. Cremeans, M.A. | <i>Principal</i> |
| Leah Josephine Fidler, M.A. | <i>Librarian, High School</i> |
| Ann Powell Howgate | <i>Secretary</i> |
| Margaret H. Swann, A.B., M.A. | <i>Guidance Counselor</i> |

ASSISTANTS TO ADMINISTRATIVE STAFF

OFFICE OF THE PRESIDENT

| | |
|----------------------------|------------------|
| Adrienne Arnett, A.B. | <i>Secretary</i> |
|----------------------------|------------------|

OFFICE OF THE VICE PRESIDENT FOR ACADEMIC AFFAIRS

| | |
|----------------------------|------------------|
| Maurine Roberts, A.B. | <i>Secretary</i> |
|----------------------------|------------------|

OFFICE OF THE VICE PRESIDENT OF BUSINESS AND FINANCE

| | |
|------------------------------|------------------------------------|
| Fred R. Smith, A.B. | <i>Comptroller</i> |
| Richard D. Vass, B.B.A. | <i>Treasurer</i> |
| Roger A. Hesson | <i>Head, Payroll Department</i> |
| Jeanne Childers, A.B. | <i>Accountant</i> |
| Thelma Kessler | <i>Secretary</i> |
| Constance Arthur | <i>Chief Clerk</i> |
| Nellie Plybon | <i>Accounting Machine Operator</i> |
| Della Kearns, A.A. | <i>Bookkeeper</i> |
| Helen Williamson | <i>Cashier</i> |
| Linda Adkins | <i>Stenographer</i> |
| June Zimmerman | <i>Payroll Clerk</i> |
| Wanda Paul | <i>Payroll Clerk</i> |

| | |
|-------------------------------|--|
| Thelma Foster | <i>Refund Clerk</i> |
| A. Doyle Carter | <i>Receiving and Inventory Clerk</i> |
| William W. Spotts, B.S. | <i>Director of Food Service</i> |
| Mary E. Kirk | <i>Dietitian</i> |
| Thelma F. Jones | <i>Dietitian</i> |
| Lillian Langhorst | <i>Secretary, Cafeteria</i> |
| W. Don Morris | <i>Manager, Student Union</i> |
| Helen R. Wells | <i>Assistant Manager, Student Union</i> |
| John W. Beaver | <i>Assistant Manager and Program Director, Student Union</i> |
| Percy L. Galloway | <i>Manager, Bookstore</i> |
| Everett D. Newman | <i>Assistant Manager, Bookstore</i> |
| Lola M. Stratton | <i>Clerk, Bookstore</i> |
| Beverly Carol Ball | <i>Clerk, Bookstore</i> |
| Lavera Oswald Verlander | <i>Telephone Operator</i> |

OFFICE OF THE ADMINISTRATIVE ASSISTANT
AND DIRECTOR OF ADULT EDUCATION

| | |
|-----------------------|--|
| Louise G. Hager | <i>Secretary</i> |
| Nancy J. Cady | <i>Stenographer, Stenographic Pool</i> |

LOGAN BRANCH COLLEGE

| | |
|-----------------------------------|------------------|
| James W. Harless, B.S., M.A. | <i>Director</i> |
| Judith E. Gallo | <i>Secretary</i> |

WILLIAMSON BRANCH COLLEGE

| | |
|---------------------------------|------------------|
| W. Paul Wassum, A.B., M.A. | <i>Director</i> |
| Peggy S. Maynard | <i>Secretary</i> |

SPECIAL SERVICES IN COOPERATION WITH THE
DIVISION OF VOCATIONAL EDUCATION, STATE OF WEST VIRGINIA

CHARLES W. RAY, *Specialist, Peace Officer Training, 1955*

RONALD BURTON THOMAS, *Consultant Industrial Training, 1956*
M.Ed. 1952, Wayne State University

OFFICE OF THE TEACHERS COLLEGE

Ethelene Holley, A.B. *Secretary*
Edna L. Ball *Stenographer*
Kathryn H. McCaleb *Clerk-Stenographer*

EXPERIMENTAL TEACHER EDUCATION PROJECT

Eric V. Core, M.A. *Director*
Connie Mae Chapman *Secretary*

OFFICE OF THE COLLEGE OF ARTS AND SCIENCES

Nevada Mills *Secretary*
Marian E. Green *Stenographer*
Faye Clay *Stenographer*

OFFICE OF THE COLLEGE OF APPLIED SCIENCE

Virginia L. Durrett *Secretary*

OFFICE OF THE GRADUATE SCHOOL

Willidean Chapman *Secretary*

OFFICE OF THE DEAN OF WOMEN

Mildred Klein Heller, A.B. *Secretary*
Vanna Wood Hensley *Hostess, University Hall*
Margaret Warth, A.B. *Hostess, Laidley Hall*
Bess Lowry Marple *Hostess, Prichard Hall*

OFFICE OF THE DEAN OF MEN

Phyllis Y. Woody *Secretary*
W. Franklin White *Financial Aid Officer*
Beatrice Terry *Hostess, Hodges Hall*
Robert F. Puthoff *Resident Director, Residence Hall for Men*

OFFICE OF THE REGISTRAR AND DIRECTOR OF ADMISSIONS

| | |
|---------------------------------------|--|
| James Lawrence Moore, A.B., M.A. | <i>Assistant Registrar</i> |
| James C. Shires, A.B., M.A. | <i>Assistant Director of Admissions</i> |
| Marvin Fulton | <i>IBM Supervisor</i> |
| Zanna Love Crager, A.S. | <i>Secretary, Registrar</i> |
| Janice M. Hager | <i>Secretary, Assistant Director of Admissions</i> |
| Sharon Reed France | <i>Secretary, Assistant Registrar</i> |
| Dorothy L. Hall | <i>Central File Clerk</i> |
| Velma McClung | <i>Admissions Clerk</i> |
| Mary E. Rogers | <i>Recorder</i> |
| Sadie M. Barnes | <i>Head Transcript Clerk</i> |
| Marlene Pratt Rife | <i>Transcript Clerk</i> |
| Patricia Johnson | <i>IBM Machines Operator</i> |
| Mary Ratcliff | <i>Veterans' Clerk</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</i> |

OFFICE OF INFORMATION AND PUBLICATIONS

| | |
|------------------------|--------------------------------------|
| Shirley S. Dyer | <i>Secretary</i> |
| Nora Jeanne Bias | <i>Head, Duplicating Department</i> |
| Mary E. Williams | <i>Clerk, Duplicating Department</i> |

OFFICE OF THE DIRECTOR OF PLACEMENT

| | |
|----------------------|------------------|
| Helen Davidson | <i>Secretary</i> |
|----------------------|------------------|

HEALTH SERVICE

| | |
|--|------------------|
| T. Craig McKee, B.S., M.D., U. S. Army Ret. | <i>Physician</i> |
| Mary P. Summers, R.N. | <i>Nurse</i> |

SPECIAL SERVICES

| | |
|---|-----------------------------------|
| The Rev. Lander L. Beal, A.B., B.D. | <i>Campus Pastor</i> |
| The Rev. Hardin W. King, A.B., B.D. | <i>Presbyterian Campus Pastor</i> |
| The Rev. Elmer E. Dierks, A.B., B.D., D.D. | <i>Baptist Campus Pastor</i> |
| Millie Miller Legg | <i>Secretary</i> |

OFFICE OF DEVELOPMENT AND ALUMNI AFFAIRS

| | |
|---------------------------|------------------------------|
| John M. Sayre, A.B. | <i>Director</i> |
| L. Marie White, M.A. | <i>Directress of Records</i> |
| Ruth D. Via, A.B. | <i>Secretary</i> |
| Virginia Edwards | <i>Secretary</i> |

DEPARTMENT OF CHEMISTRY

| | |
|----------------------|---|
| Joseph Fodor | <i>Stockroom Manager & Demonstrator</i> |
| Elouise Weaver | <i>Secretary and Librarian</i> |

DEPARTMENT OF HOME ECONOMICS

| | |
|------------------|------------------|
| Mary Busby | <i>Secretary</i> |
|------------------|------------------|

DEPARTMENT OF JOURNALISM

| | |
|------------------------------|---|
| Judith O'Dell, A.B. | <i>Department Assistant</i> |
| Joseph W. Shields, A.B. | <i>Laboratory Technician and Photographer</i> |

General Information

MARSHALL UNIVERSITY

Marshall University, an institution of higher education supported by the State of West Virginia, has for its general purpose the highest development of the personality of its students. It encourages them in the attainment of scholarship and the acquisition of skills. Further, the University recognizes an obligation to contribute to the cultural growth of its community.

The University aids in developing those who come under its influence by providing them the opportunity to understand and to contribute in a positive way to the culture in which they live; to develop and maintain physical health; to participate in democratic processes. It endeavors to inculcate worthwhile spiritual, social and economic values; to stimulate intellectual curiosity and the desire to continue personal and professional growth.

Various departments of the University provide for education and training in specialized fields to prepare for professional, technical, and industrial careers.

The institution offers for community advancement 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 was accepted by the Conference of the Methodist Episcopal Church South. Under church auspices educational progress continued 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 difference 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, its 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 nineteenth century and the first two decades of the twentieth, 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 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 nine 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. 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 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, a city with a population of 83,627. 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 Huntington.

BRANCH COLLEGES

Marshall University operates two Branch Colleges at Logan and Williamson. Courses in these branches are offered to provide 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 are eligible to 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 to afford students the opportunity to attend classes on a full-time or part-time basis while working in their communities.

DIVISIONS

The University functions through five divisions: Teachers College, College of Arts and Sciences, College of Applied Science, Graduate School, and Division of Adult Education.

BUILDINGS

The Marshall University campus consists of about 35 acres near the center of Huntington. Occupying the tree-shaded grounds are the following buildings:

OLD MAIN, the oldest and largest 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 lecture auditorium, laboratories, classrooms, offices, a greenhouse, and the studios of radio station **WMUL**.

JAMES E. MORROW LIBRARY, erected in 1930 and named in honor of a former president of the University, houses the University Library and the Department of Journalism.

MUSIC HALL provides a small auditorium, practice rooms for piano and voice students, a band room, and a number of classrooms.

OLD MAIN ANNEX is a two-story temporary structure housing classrooms and faculty offices.

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, Military Science Department, 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 swimming pools, 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.

EVERETT HALL is a three-story residence under the supervision of the Department of Home Economics. A nursery school occupies the first floor, and senior women in home economics use the upper floors as the Home Management House.

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.

THE PRESIDENT'S HOUSE has been the residence of successive presidents of the University since its erection in 1925.

ENGINEERING BUILDING, acquired in 1960, houses the Department of Engineering.

UNIVERSITY HALL, attached to Old Main, was the University's original dormitory. Its three floors house 68 women. University Hall is tentatively scheduled for conversion into offices and classrooms.

LAIDLEY HALL, opened in 1937, is a residence hall for 150 women. It is named in honor of the University's founder, John Laidley.

LUCY PRICHARD HALL, housing 184 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, provides living quarters for 175 men. It is named in honor of Thomas E. Hodges, a former president of the University.

NEW RESIDENCE HALL FOR MEN, completed in 1961, houses 244 men. Its facilities include a dining hall for dormitory residents.

WOMEN'S RESIDENCE HALL will be completed in September, 1964, and will house 250 women. It will be the newest dormitory on campus.

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

FAIRFIELD STADIUM, seating 10,000, is eight blocks south of the campus and serves as Marshall's football stadium.

UNIVERSITY HEIGHTS CAMPUS comprises 185 acres four miles east of the main campus. Now under development, it will provide space for married student housing, field research, recreation, and other facilities.

DEVELOPMENT AND ALUMNI AFFAIRS

The Office of Development and Alumni Affairs was established to secure support for Marshall University from its constituencies and for coordinating the activities of The Marshall Alumni Association and The Marshall Foundation, Inc.

This office is interested in all facets of Marshall and its activities. It is particularly concerned with the way Marshall is presented to and received by its many publics. The office acts as a liaison between those publics and the University.

Marshall, as a state-supported institution, depends primarily on legislative appropriations for its operation and capital improvements. Additional support is needed to complete projects, activities, and programs not supported by state funds. The Office of Development and Alumni Affairs is responsible for accomplishing this task. The two main organizations concerned with this type of support, administered through this office, are The Marshall Foundation, Inc., and The Marshall Alumni Association.

The Marshall Foundation, Inc.

The Marshall Foundation, Incorporated, was organized as a nonprofit corporation under the laws of the State of West Virginia in 1947 to support

the program of Marshall University. The Foundation receives and holds in trust property, real and personal, that is given, devised, bequeathed, given in trust or in any other way made over to the corporation for the use or benefit of Marshall University, or of any student or professor, for the purpose of carrying on at the University any line of work, teaching or investigation, which the donor, grantor, or testator may designate. The corporation invests and disperses all monies received and manages, administers, and controls all property received according to the specifications established by the donors.

For the purposes of The Foundation, the needs of the University have been grouped into five general projects—Scholarships and Fellowships, Library Improvement, Research, The President's Fund for general undesignated aid, and Capital Funds.

The Foundation is governed by a Board of Directors of thirteen members, representing the administration, faculty, alumni of the University, and three members of the community without reference to their affiliation with the University or Alumni Association.

Contributions may be made payable to The Marshall Foundation, Incorporated, and sent to the Secretary of The Foundation, Administration Building, Marshall University, Huntington, West Virginia.

The Marshall Alumni Association

Records of names and addresses of some 15,000 Marshall alumni are maintained, with additional persons continually being located and placed on the active lists. The alumni publications issued by this office 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 prior to the opening of a semester or term and must be addressed to:*

Director of Admissions
Marshall University
Huntington, West Virginia 25701

General Requirements for All Applicants for Admission

All credentials submitted in support of an application for admission become the property of the University and will not be returned to the student. Such credentials include an official transcript of high school or college grades, 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 will be notified as soon as action is taken on their application for admission.

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 offices of the Dean of Men or Dean of Women. (See 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 seventeen (17) units and rank in the upper three-fourths ($\frac{3}{4}$) of the high school graduating class and have a satisfactory recommendation from his high school. The following high school units are required for admission by the West Virginia Board of Education:

English—4 units

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

Science—2 units

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

Mathematics—2 units

One of which must be algebra.

Social Studies—3 units

One of which must be American history.

Health and Physical Education—1 unit

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

Foreign Language—2 units *recommended* but not required.

The two units should be in the same language.

Admission to the University is not necessarily admission to a particular college or curricula 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 Degrees and preprofessional student—1 unit of plane geometry.

Bachelor of Engineering Science and B.S. in Chemistry Degrees—additional $\frac{1}{2}$ unit of algebra, $\frac{1}{2}$ unit of geometry, 1 unit of chemistry and 1 unit of physics.

Associate in Nursing Degree—1 unit of chemistry. Successful completion of required psychological and physical examinations. Specific information concerning admission to the nursing program should be requested.

West Virginia high school graduates who rank in the lower quarter of their classes may be admitted only if they attain a composite score of 14 or above on the American College Test.

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. Two units in the required subject matter pattern can be waived for nonresident students if the two units are not in the same subject area.

Admission of Transfer Students

Any person who has attended another accredited institution* of collegiate grade, whether he has earned credit or not, will be classified as a transfer student. The University does not at any time or under any conditions disre-

*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.

gard 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 will be allowed towards a degree if applicable.

To be eligible for 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 a "C" (2.0) or better average on all college work previously attempted.

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 will be admitted as a transfer student rather than as a high school graduate.

Classification of Freshmen Admitted from High Schools

Graduates of accredited high schools will be admitted in good standing if their grade average on high school units is between a C and A-.

Graduates whose scholastic average on high school units is A- (3.75) or above will be admitted WITH HONORS.

Graduates whose scholastic average on high school units is less than "C" will be admitted on WARNING which will limit academic and social activities until the condition is removed.

The American College Test

Marshall University requires the American College Test (ACT) of all freshman applicants for admission. 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 November or February 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 will be placed in English 100.

Admission by General Education Development Tests

Marshall University is an official testing center for the General Education Development Tests (GED). Veterans and civilians 21 years of age or over who desire to take the tests must ask the Director of Admissions when the next test is scheduled. This test is given four times each year—immediately before the opening of each semester and summer term.

Applicants for admission who completed the tests while in the Armed Forces may have an official copy of their scores forwarded to the Admissions Office by writing to the United States Armed Forces Institute, Madison 3, Wisconsin.

A non high school graduate will be admitted to Marshall University if he attains a standard score of 40 or above on each of the five 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 Tests.

Provisional Admission of High School Juniors

Provisional Admission will be granted to high school students who have attained a 3.0 (or B) average or better on at least 12 units of the college bound curriculum at the end of six (6) semesters of high school work, but final admission will not be granted until after graduation from high school and the submission of the official high school record.

West Virginia applicants provisionally admitted may be granted advance dormitory reservations upon proper application to the Dean of Men or Dean of Women.

Admission of Superior and Talented High School Students

The University will admit a limited number of outstanding high school students who have completed the junior year. This program will permit superior and talented high school students to accelerate their education. All such students will return to their high schools to complete the senior year following the summer session. 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 University Admissions Committee.
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 will be subject to immediate dismissal from the University.

FOREIGN STUDENTS

To be admitted the foreign student must demonstrate proficiency in written and spoken English. Such proficiency can be established 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.

Countries presently represented by students at Marshall University are Brazil, Cuba, Denmark, Greece, Holland, Iran, Japan, Kenya, Taiwan and Thailand. Foreign students admitted to the University must have sufficient funds to take care of all expenses.

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

ORIENTATION WEEK

To provide freshmen an opportunity to adjust themselves to their new surroundings, the University sets aside a period before the beginning of each semester for the reception and registration of new students. Dates for this period will be announced in letters to students prior to the orientation period.

During these days the freshmen become acquainted with the campus and the facilities provided for their instruction and welfare. Selected upperclassmen and members of the faculty greet the new students and assist them in adapting themselves to university life.

Each student confers with University personnel regarding personal problems and living accommodations; becomes acquainted with the campus and its academic and recreation facilities; is introduced to Marshall's traditions and customs; and, in general, has a chance to get "settled down" before the semester begins.

Academic Information

FACULTY-STUDENT ADVISORY PROGRAM

Under this program each student who is admitted to Marshall University is assigned to a faculty adviser. Whenever possible the adviser is chosen from the field in which the student has expressed an interest. There is thus provided a common bond between the student and the faculty adviser. The major service rendered by the adviser is one of academic guidance. He is ready to assist the student in the preparation of semester class schedules and to guide the student in meeting the degree requirements. The student is urged to consult his adviser concerning any question that has a bearing on his academic advancement.

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 of eighteen weeks.

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

GRADES AND QUALITY POINTS

The following system of grades and quality points is used within the institution:

- A—Honor, given only to student of superior ability and performance. Four (4) quality points are earned for each semester hour with a grade of A.
- B—Good, given for ability and performance distinctly above the average in quality. Three (3) quality points are earned for each semester hour with a grade of B.
- C—Average, given for ability and performance of average quality. Two (2) quality points are earned for each semester hour with a grade of C.
- D—Lowest passing grade, given for ability and performance of poor quality. One (1) quality point is earned for each semester hour with a grade of D.
- F—Failure, signifies entirely unsatisfactory work. Courses must be repeated if credit is to be received. No (0) quality points.
- FIW—Failure because of irregular withdrawal. No (0) quality points. (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 ten days after the date for the first class meeting in the summer session. No (0) quality points. (See regulations on withdrawal.)

WP, WF—Withdrawn later than the first calendar month after the date for the first class meeting in the semester, or later than the first ten days after the date for the first class meeting in the summer session. The grades WP (withdrawn passing) and WF (withdrawn failing) will 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 shall be the date on the withdrawal slip issued by the Registrar's Office. (See regulations on withdrawal.) No (0) quality points.

I—Incomplete, given to students who miss some or the last exercises of the class work because of illness or some other equally good reason. 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 and if the make-up work is unsatisfactory, the grade will become an F. No (0) quality points for an I grade.

Grades of A, B, C, D, F, FIW and WF in all semester hours registered are to count toward quality point averages.

Candidates for graduation and/or certification shall have a quality point ratio of 2.00 (average of C) or higher on all work attempted.

It is the student's responsibility to keep informed on his quality point standing. This information can be obtained at any time from the Dean of the College in which the student is registered.

QUALIFYING EXAMINATION IN ENGLISH COMPOSITION

To encourage an acceptable standard of written English, the University has instituted as a requirement for graduation the passing of a qualifying examination in English composition.

The examination will be given six times each year: twice during each regular semester and once each summer term. Students in three-year and four-year programs will 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 will be eligible to take the examination in their second year, after they have passed six hours of regular freshman English (not including English 100) and, in Teachers College, English 215.

Foreign students from countries whose national language is not English and students who receive A or B grades in English 102a or 104a will be 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, will be entered in his permanent record. Those who do not pass the examination will be 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.

REGULATIONS GOVERNING WITHDRAWAL FROM COURSES OR FROM THE UNIVERSITY

Official Withdrawal from Courses or from the University:

A student desiring to withdraw from one or more courses must apply to the Dean of his College for permission. The Dean will inform the Registrar who in turn will inform the instructors concerned.

A student desiring to withdraw from college must apply to the Dean of his College for permission. If permission is granted the student will secure the approval of the appropriate Personnel Dean and the University Librarian. The student will deposit his Identification Card with the Librarian and take his withdrawal permission to the Registrar for final approval. If a student finds it necessary to withdraw by mail or telephone, he must send his Identification Card to the Librarian or Registrar before the withdrawal becomes official.

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

1. If permission for withdrawal is given during the first calendar month after the date of the first class of the semester or within ten days after the first class meeting of a summer term the instructor will report a grade of W followed by the date of official withdrawal; thus W 2-14-52.
2. If permission for withdrawal is given later than one calendar month within a semester or ten days within a summer term and through the 12th week of the semester or the 4th week of a summer term the W shall be accompanied by a grade to show the status of the student's work up to the time of official withdrawal; thus WP 4-15-52 or WF 4-15-52.
3. Students who withdraw from one or more courses or from college after the 12th week of a semester or the 4th week of a summer term will automatically receive a grade of WF unless the Academic Dean declares the withdrawal to be for reasons beyond the control of the student, in which case the W will be followed by the grade P or F being made at the time of official withdrawal.

Irregular Withdrawal from Courses or from the University:

Students who drop one or more courses *without permission* will receive at the end of the semester or summer term a grade of FIW (failure because of irregular withdrawal) in each course involved and will automatically be placed on Academic Probation the following semester or summer term in attendance.

ABSENCE FROM EXAMINATIONS

Students are required to take all regular examinations. If a student attends a course throughout the semester and is absent from the examination without permission, the instructor shall count the examination as zero and

report the final grade as FIW. If in the opinion of the instructor the absence of the student was for a satisfactory reason, the grade I will be reported and the student may, upon application, take the examination at a later date. (See "Incomplete" under Grades and Quality Points, page 41.)

STUDENT 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 students. 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 a class for two or more weeks prior to the final examination will be 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.

CLASSIFICATION OF STUDENTS

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

Students who have completed fifty-eight hours and less than ninety hours of college work are classified as juniors.

Students who have completed twenty-six hours and less than fifty-eight hours of college work are classified as sophomores.

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

CLASSIFICATION OF ENGINEERING STUDENTS

Students who have completed 106 hours of college work are classified as seniors.

Students who have completed 68 hours and less than 106 hours of college work are classified as juniors.

Students who have completed 30 hours and less than 68 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.

ASSIGNMENTS AND CREDITS

1. **SEMESTER LOAD.** Sixteen semester hours constitutes a normal semester schedule. However, additional hours may be taken with permission of the Academic Dean.

2. **CHANGE OF SCHEDULE,** i. e., adding courses, dropping courses, changing class hours or days, changing instructors, or other changes of any kind will not be permitted after the student has registered for the semester except by permission of an Academic Dean.

3. **FULL TIME STUDENT DEFINED.** A student carrying at least twelve semester hours.

4. **NUMBERING OF COURSES.** Courses numbered 1-99 are subcollege courses and do not carry college credit.

Courses numbered 100-199 are primarily for freshmen, open to sophomores unless otherwise specified.

Courses numbered 200-299 are primarily for sophomores, open to freshmen and juniors unless otherwise stated.

Courses numbered 300-499 are primarily for juniors and seniors.

Courses numbered 500-599 are equivalent to certain 400 series courses, but are open only to graduate students. (Note: Credit earned under a 400 series number after September 1, 1954, cannot be converted to graduate credit.)

Courses numbered 600-699 are open to graduate students only.

5. **CLASS PREPARATION.** A student is expected to devote not less than two hours of preparation for each class hour. This minimum is indispensable to the success of the student in any college course.

6. ACADEMIC PROBATION

- a. A first semester freshman who earns a quality point average of less than 1.50 on all work attempted will be placed on probation.
- b. A student other than a first semester freshman who has earned fewer than seventy-five (75) semester hours and whose cumulative quality point average on all work attempted is less than 2.00 to the extent of more than ten points will be placed on probation.
- c. A student who has earned seventy-five (75) or more semester hours and whose cumulative quality point average is less than 2.00 will be placed on probation.
- d. A student who withdraws irregularly from part or all of the academic load during the last semester or term of attendance will be placed on probation.

(A student makes normal progress toward graduation when he earns sixteen (16) semester hours each semester with a minimum quality point average of 2.00. Quality point averages are based

upon hours attempted including all courses for which a student registers and in which grades of A, B, C, D, F, WF, and FIW are received.)

(A student on probation is limited to the minimum load of a regularly enrolled full-time student. Should the student fail to return to good academic standing, he is subject to dismissal, or, at the discretion of the Academic Dean, he may be permitted to remain in the University one additional semester or term on extended probation.)

Students on probation shall be required to have specific permission from the Academic Dean before they may register for a succeeding semester.

- e. A student returns to good academic standing when he meets the quality point average required for his classification.

7. **READMISSION OF STUDENTS DISMISSED FOR SCHOLASTIC DEFICIENCIES.** A student who does not attend another college or university after having become automatically ineligible to return to Marshall University may, after one semester, request reinstatement to the college (Teachers College, College of Arts and Sciences or College of Applied Science) from which he was dismissed. The request must be submitted to the dean of the college concerned and include reasons justifying his readmission to the University.

Any student who enters another college or university following scholastic dismissal from Marshall University will be classified as a transfer student and will be governed by the regulations applying to transfer students. (See page 37 of the catalog.)

8. **SUSPENSION.** Students are subject to the rules and regulations made by the University for their guidance and government; for any failure to comply with such regulations, a student may be suspended or expelled as provided by the West Virginia Board of Education.

9. **MINIMUM RESIDENT 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 thirty-six weeks' work in residence with not less than twenty-four hours' credit.

Students who entered Marshall University previous to September, 1947, and whose residence was interrupted by military service or other good reason may, on their return to Marshall University, elect to satisfy the graduation requirements that were in effect when they first entered Marshall University or to meet the requirements in effect at the time they return to Marshall University.

Candidates for Bachelor's degrees who entered Marshall University in September, 1947, or at a later time, may graduate by meeting the requirements in effect on the date of their entrance provided that there be not more than ten years time between their entrance and graduation. When the time between

entrance and graduation is greater than ten years, the student will have to meet the graduation requirements in effect on the date of his graduation.

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

AUDIT AND NONCREDIT COURSES

With the consent of the instructor and the adviser or the Dean, lecture and recitation courses may be audited without credit. Enrollment for audit is limited to the regular registration period for the semester or term. All students who desire to audit classes shall enroll and pay fees in the same manner and at the same tuition rate as students enrolling for credit. Faculty members desiring to audit courses must secure approval of their Dean as well as that of the instructor of the course or courses desired and must enroll in the regular manner for such courses.

THE DEAN'S LIST

Those students who are registered for twelve or more hours and who at the end of the semester receive grades averaging B or above are considered honor students and a list of such students constitutes what is known as the Dean's List.

HONOR STUDENTS

Students of exceptional ability who possess a high degree of initiative may be registered by a department in Honors Courses. Such students are excused from some of the routine demands of the undergraduate courses but are required to maintain a higher standard of work both as to quantity and quality. Any junior with an outstanding scholastic record may apply to the chairman of the department for the privilege of enrolling as a candidate for honors in the field of his choice. Students so recommended by the chairman of the department, and approved by the Honors Committee, may receive eight hours credit during their senior year in courses numbered 495H and 496H. Applications should be filed by the opening of the second semester of the junior year, and must be recommended by the chairman of the department. Requirements, 3.5 in major, 3.3 over-all average. Both courses must be taken in sequence in order to receive credit.

Candidates for graduation who have achieved special distinction in academic work are recognized at Commencement by having printed on their diplomas, first, second, or third honors as determined by quality points; *summa cum laude* (3.85 and above); *magna cum laude* (3.6 to 3.85); *cum laude* (3.3 to 3.6).

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 by a student at Marshall University is included in determining graduation with honors.
3. Work transferred from another institution is not included in determining graduation with honors.

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

TRANSCRIPTS

Every student at Marshall is entitled to one official transcript of his record free; for each additional copy a fee of one dollar (\$1.00) cash will be charged. Students are urged not to request transcripts at the beginning of a semester or between semesters if they want prompt service as the press of other work in the Registrar's Office makes it impossible to prepare transcripts immediately.

A student who defaults in the payment of any University dues or loans forfeits his right to claim a transcript.

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

All requests for transcripts should 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 bulletin, the admission bulletin, the schedule of courses for each semester, and the summer session bulletin. Other special publications are issued from time to time.

Fees and Expenses

All registration and laboratory fees are due and payable at the Cashier's Office on the day of registration.

The cashier accepts cash, postal money orders, or approved personal checks written for the exact amount of the obligation. All checks must be made payable to Marshall University.

TUITION, REGISTRATION, AND ACTIVITY FEES

FULL-TIME STUDENTS (twelve or more semester hours) PER SEMESTER:

| | Resident of West Virginia | Non- resident ¹ |
|------------------------------|---------------------------------|-------------------------------|
| Tuition Fee | \$25.00 | \$175.00 |
| Registration Fee | 50.00 | 50.00 |
| Student Activity Fee | 23.90 ² | 23.90 ² |
| Total Registration Fee | \$98.90 | \$248.90 |

PART-TIME STUDENTS (less than twelve semester hours)

In addition to the following tuition fees, a registration fee of \$4 per semester hour is charged.

Fee per semester hour³:

| | | |
|---|---------|---------|
| First hour | \$ 5.00 | \$15.00 |
| Second hour | 3.00 | 15.00 |
| Third hour | 2.00 | 15.00 |
| Each hour above three semester hours | 3.00 | 15.00 |
| Extension classes | 7.50 | 15.00 |
| Identification Card Fee (all students who are enrolled for one or more courses for residence credit) | .25 | .25 |

¹NONRESIDENT FEES shall apply to those students who are legally domiciled in states or countries other than West Virginia. The official domicile of a minor is that of his or her parents or legal guardian. (See page 53).

²THE STUDENT ACTIVITY FEES are allocated as follows: Assemblies and Forums \$1.50; Athletics \$7.50; Artists Series \$3.00; Chief Justice \$2.25; University Theatre \$.50; Parthenon \$2.00; Student Government \$.50; Student Union \$4.00; University Band \$.25; Radio Station WMUL \$.25; Debate \$.15; Identification Card \$.25, and Health Service \$1.75.

A special activity card for the use of the spouse of a full-time student costs \$19.25 and covers: Athletics (\$11.75), Assemblies and Forums (\$1.50), Artists Series (\$5.00), and ID card (\$1.00).

³TOTAL FEE PER CREDIT HOURS (This fee does not include a student activity card. Part-time students may purchase the card for \$21.90.)

| Semester Hours | W. Va. Resident | Non- resident | Semester Hours | W. Va. Resident | Non- resident |
|-------------------|--------------------|------------------|-------------------|--------------------|------------------|
| 1 | \$ 9.25 | \$ 19.25 | 7 | \$50.25 | \$133.25 |
| 2 | 16.25 | 38.25 | 8 | 57.25 | 152.25 |
| 3 | 22.25 | 57.25 | 9 | 61.25 | 171.25 |
| 4 | 29.25 | 76.25 | 10 | 65.25 | 190.25 |
| 5 | 36.25 | 95.25 | 11 | 69.25 | 209.25 |
| 6 | 43.25 | 114.25 | 12 or more | Full Time | |

ESTIMATE OF EXPENSES

Estimated semester expenses of a student at Marshall University are outlined in the following table. These estimates are made of both minimum and average expenses and cover the usual charges for board, room, tuition, and fees which are paid to the University.

| | Minimum | Average |
|--|--------------------------|--------------------------|
| Tuition | \$ 25.00 | \$ 25.00 |
| Registration Fee | 50.00 | 50.00 |
| Student Activity Fee | 23.90 | 23.90 |
| Board | 234.00 | 234.00 |
| Room | 99.00 | 110.00 |
| Books, gym outfit | 30.00 | 35.00 |
| Supplies, laboratory fees, etc. | 10.00 | 15.00 |
| | <u>\$471.90</u> plus tax | <u>\$492.90</u> plus tax |
| Out-of-state students pay an additional fee of | \$150.00 | \$150.00 |

BOARD

All students living in the dormitories must purchase meal books and take their meals in the University Dining Halls. Meals are available to students rooming off the campus at the same rate as resident students.

Board costs \$234.00 each semester plus \$7.01 consumers sales tax. This cost is based on prevailing prices and subject to change in the event of continued price increases in food cost. Board may be paid in full upon entrance or in two equal installments each semester. The first installment is due and payable on the day of registration; the second installment is due on the first day of the second half of the semester.

Meal books are not valid during vacation periods. If it is necessary for the student to remain on the campus during such periods, he can obtain meals at regular cafeteria prices if the cafeteria remains open.

Since freshmen are required to be on the campus prior to registration to participate in Freshman Orientation, those freshmen residing in the dormitories must purchase a meal book. This book identifies and entitles the freshman purchaser to meals in the cafeteria during the orientation period at no additional charge.

The effective date for use of tickets in the meal book for all students (upperclassmen and freshmen) will be the first day of regular registration.

The consumer's sales tax will be added to the board and room charges.

Effective date for refunds and reductions will be from the first day of regular registration for the semester or summer term.

NOTE: No deduction or refund will be made in board charges unless the student has been absent from the campus for *more* than a calendar week because of personal illness or a University-approved trip. No deduction or refund will be made in room charges for absences.

SPECIAL FEES**Late Registration Fee**

| | |
|--|---------|
| 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 | \$ 2.50 |
| Baccalaureate Degree | 2.50 |
| Graduate Degree | 5.40 |

Graduation fees will be due and payable on notification from the dean of the student's respective college.

Music Fees

| | |
|--|---------|
| Piano practice, one hour per day (per credit hour) | \$ 3.00 |
|--|---------|

Laboratory Fees

Laboratory fees are stated in the description of the courses and are payable at the time of registration. (See Courses of Instruction.)

Military Science Fee

A deposit of \$25.00, payable by the beginning of the school to the University Cashier, is required of Basic Course (MS I and MS II) Military Science students to cover possible loss or damage of uniforms and equipment issued. This deposit is returned at the completion of each academic year or upon withdrawal of the student from ROTC. In addition juniors and seniors are required to pay a portion of uniform cost which approximates \$25.00.

Fees for fractional hour courses

Tuition for one-half-semester-hour courses or other fractional hour credit shall be the same as that charged for one semester hour. The present rate of three dollars (\$3.00) per semester hour shall apply to each hour or fraction thereof for resident students and fifteen dollars (\$15.00) per semester hour for nonresident students.

Fees for auditing courses

a. Full-time staff members may audit courses without charge. All full-time staff members desiring to audit courses must secure the approval of their Dean as well as that of the instructor of the course or courses they desire to audit. It will, also, be necessary for them to enroll in the regular manner for such courses.

b. All persons other than staff members who desire to audit classes shall enroll and pay fees in the same manner and at the same tuition rate as students enrolling for credit.

ROOM RENT

(Per Semester of 18 Weeks)

HODGES HALL AND LAIDLEY HALL

All rooms, per student\$99.00
 Plus \$2.96 Consumer's Sales Tax

**PRICHARD HALL, RESIDENCE HALL FOR MEN,
NEW RESIDENCE HALL FOR WOMEN**

All rooms, per student\$120.00
 Plus \$3.59 Consumer's Sales Tax

(Per Summer Term of 5 Weeks)

HODGES HALL, LAIDLEY HALL AND UNIVERSITY HALL

All rooms, per student\$35.00
 Plus \$1.04 Consumer's Sales Tax

**PRICHARD HALL, RESIDENCE HALL FOR MEN AND
NEW RESIDENCE HALL FOR WOMEN**

All rooms, per student\$40.00
 Plus \$1.19 Consumer's Sales Tax

Summer School room reservation deposit is \$10.00. No refunds.

(Summer Workshops)

Three weeks to six weeks Entire six-weeks rate

More than six days but less than twenty-one days 80% of six-weeks rate

Less than seven days \$2.00 per day

(Additional charge of \$1.00 per day for linens).

See STUDENT HOUSING (pages 56-57) for room deposit fee and reservations.

REFUND OF FEES**I. Withdrawal from the University**

Students who withdraw regularly from the University* may have a refund in accordance with the following schedule:

| | Amount of Refunds |
|--|--------------------|
| During the first and second weeks | 90% |
| During the third and fourth weeks | 70% |
| During the fifth and sixth weeks | 50% |
| Beginning with the seventh week | No refunds allowed |
| 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.

II. Withdrawals due to administrative action

When it becomes necessary to cancel a class by administrative and/or faculty action, all students involved will be granted full refund for the class cancelled unless the students register in another course of like value in terms of semester hours. This section shall not apply to withdrawals due to disciplinary action.

*See page 43.

III. Board

The unused portion of meal books upon withdrawal must be returned to Business Office in order for a refund to be made.

IV. Room rent

No refund of any portion of the room rent will be made except for reasons entirely beyond the control of the student. In such cases the \$25 deposit plus the prorated rent based upon the total semester rate will be deducted from the refund.

V. Special fee refunds

The I.D. card fee of \$.25 is not refundable. The Student Activity Fee will not be refunded unless the Activity Card is returned to Business Office.

Regulations Governing Classification of Students for the Purpose of Assessing Tuition Fees

As a state institution, Marshall University offers a low rate of tuition to all students entering from West Virginia. Eligibility for admission under the low residential rate is determined in accordance with the following policy established by the Board of Education in July, 1959.

The term "resident" as hereinafter used refers to classification for fee purposes only.

All students not classified as resident students shall be classified as non-residents for fee purposes.

A student classified as a nonresident at the time of first registration in a state college, is considered a nonresident for fee purposes throughout his years as a student in a state college, unless his parents move to and establish a home, permanent abode and legal domicile in the state for twelve (12) consecutive months immediately prior to his registration in a state college. If the status of a student is thus properly changed from a non-West Virginia to a West Virginia student, his classification may not be changed until the next registration period.

Students who are minors: The residence of a minor shall follow that of the parents at all times. The residence of the father during his life, and after the father's death, the residence of the mother is the residence of the minor, but if the father and mother have separate places of residence, the minor takes the residence of the parent with whom he lives or to whom he has been assigned by court order. The parents of a minor will be considered residents of West Virginia if they have had a home, permanent abode and legal domicile within the state for twelve (12) months immediately prior to registration.

A student who is 21 years of age or over may be classified as a resident if (1) his parents were residents of the state at the time he reached his majority or (2) who, while an adult, has established a bona fide home, permanent abode and legal domicile for at least twelve (12) consecutive months immediately preceding his initial registration, it being understood, however,

that no nonresident student may establish residence in this State for fee purposes, merely by his attendance as a full or part-time student at any institution of learning in the State. There must be evidence that he has come to the State primarily for other purposes than college attendance.

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.

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 nonresident fee at the next registration period after twelve (12) months following removal of parents or guardian.

The residence of a minor student assigned to a guardian shall be considered affected by such assignment, beginning twelve (12) 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 had a home, permanent abode and legal domicile in West Virginia for twelve (12) months immediately preceding the date of his enrollment in a state college shall be regarded as eligible for registration as a West Virginia student.

Neither registration as a voter in the State of West Virginia nor the purchase of a West Virginia automobile license will constitute residency for fee purposes.

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 (12) months after establishing domicile or abode in the state.

A student who willfully gives wrong information to evade payment of the nonresident fees shall be subject to serious disciplinary action, and must also pay the nonresident fee for each session attended.

The above regulations shall not be retroactive nor penalize a student or students previously classified.

Division of Adult Education

EVENING SCHOOL

The method of meeting community needs is expressed primarily in the Evening School. Here, noncredit courses may be taken for personal, business, cultural, domestic, industrial and recreational improvement or as a refresher of other interests.

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

It is the desire of Marshall University through its Evening School to serve all who feel the need or have the desire to extend their education, therefore, adult education does not limit itself to noncredit courses. 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 will appeal to all who are high school graduates and 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. By taking advantage of the evening program, the time needed to secure a master's degree may be shortened.

EXTENSION CLASSES

Classes in extension are offered to meet the demands of teachers and others who cannot be in residence. Credit or noncredit courses in several fields are offered each semester.

The extension work is given 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 6 semester hours may be earned during a semester nor more than 9 semester hours within one year. (This applies to public school teachers under contract in the state).

The tuition fee for extension work is \$7.50 per semester hour, plus a registration fee of \$4.00 per semester hour, both payable in advance.

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 who wish to take extension courses and who have not been previously enrolled in Marshall University must furnish the Registrar's Office immediately 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 who wish to begin 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 will be glad to receive requests for speakers to appear before school, civic and community organizations, scientific societies, service clubs.

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

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

CONFERENCES AND WORKSHOPS—In so far 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, University Hall, Prichard Hall, and a new dormitory to be opened in September 1964.

Men are housed in Hodges Hall and the Residence Hall for Men.

Applications and Deposits

Applications for rooms in residence halls should be made to the Dean of Women or Dean of Men. An application is considered only if accompanied by a \$25.00 deposit.

Students making reservations for the fall term will remain in the dormitory residence for an entire academic year except for the reason of graduation or circumstances beyond their control.

Deposits are credited to the semester room rent.

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 must be provided by the student.

All residence halls will be closed during the Thanksgiving, Christmas and spring holidays.

Room rents for each dormitory may be found under the title "Fees."

Cancellations and Refunds

DEPOSITS: A refund of \$15 on the deposit of \$25 will be made if a request is received in the Dean of Men's or Dean of Women's office prior to August 1st for the first semester or December 5th for the second semester. After these dates the entire deposit will be forfeited.

ROOM RENT: No refund of any portion of the room rent will be made except for reasons entirely beyond the control of the student. In such cases the \$25 deposit plus the prorated rent based upon the total semester rate will be deducted from the refund.

Breakage

Students are not required to pay a breakage fee. They are expected to exercise reasonable care in the use and custody of college 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 will be assessed to the responsible student or students.

Sorority and Fraternity Houses

Nine fraternities and six sororities maintain houses 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 dormitories. The homes are supervised by University-approved hostesses who are employed by the sorority or fraternity in cooperation with the appropriate faculty advisors.

(See list of sororities and fraternities on page 66.)

Rooms in Private Homes

Rooms in private homes are listed in the offices of the Dean of Men and Dean of Women. All rental transactions are negotiated directly between the student and the householder following a personal inspection and approval of the residence by the student and his parents. Men and women may not rent rooms in the same rooming house.

Housing for Married Students

The University has forty-eight housing units, located at University Heights, four miles from the campus, which are rented to married students and their families at rents of \$45.00 per month for a one (1) room apartment and \$55.00 per month for a two (2) room apartment. Applications may be procured from the Office of the Dean of Men. A security deposit of \$25.00 is charged for family dwellings.

Board for Dormitory Residents

All dormitory residents are required to purchase their meals through the University Dining Halls. Cost of meal books for each semester is \$234.00 plus tax. The University Dining Halls serve all meals during the regular academic year, with the exception of the Sunday evening meal. During holiday periods the University Dining Halls are closed.

GENERAL COUNSELING

The offices of the Dean of Men and the Dean of Women are organized for counseling students in their more 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.

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 either the Dean of Men or the Dean of Women, Marshall University.

STUDENT HEALTH SERVICES

The Health Service is organized to provide medical service to students of the University and to supervise health conditions on the campus.

A physician and nurse staff the student clinic. The University physician 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.

All new students must submit the University's medical examination form completed by the family physician.

HOSPITALIZATION INSURANCE

Hospitalization coverage for students attending Marshall University is not compulsory, but every student is advised and urged by the administration to take out hospitalization for himself.

The Student Government of Marshall University offers a specially formulated student accident and sickness group insurance plan providing coverage for hospital and medical expenses. The plan protects students at home, at the University, or while traveling for the entire regular term, including vacations. Special arrangements may be made for coverage during the Summer Session if desired. All full-time students and their dependents are eligible for participation in the plan. *Participation in the plan is not compulsory.*

Application forms may be obtained at the Student Government Office or the Office of the Dean of Men.

THE PSYCHOLOGY CLINIC

The Psychology Clinic 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 Psychology Clinic is located in Old Main, Room 307.

THE SPEECH CLINIC

The Department of Speech operates a clinic where assistance is provided without charge to any Marshall student who desires help with speech problems. In addition, the clinic is designed to give training in clinical procedures to future public school correctionists.

Consultation, examination, and recommendations will be made available to the public in so far as time and facilities permit. The clinic is located in Room 18 of the Science Building.

MARSHALL UNIVERSITY LIBRARY

The Marshall University Library is housed in the James E. Morrow Library Building. The full facilities of the library are open to all who are enrolled as students and to the faculty and staff of the University. Permission for use of its 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 130,000 volumes. Over 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 is planned to accomplish two broad purposes: to aid the University faculty in selecting and utilizing audio-visual aids; and to train teachers and prospective teachers in the use of all types of audio-visual materials, equipment, and techniques. To these ends an Audio-Visual Center is maintained on the campus, and courses and workshops in audio-visual education are offered both at the University and in extension centers throughout the state.

OFFICE OF PLACEMENT

Marshall University operates a free placement service. Graduating students will have the opportunity to meet prospective employers from the public schools, business, industry, governmental agencies and others. Alumni may use the service at no cost.

The Office of Placement assists students in securing employment while they are in college.

The Office is located in Room 114 on the first floor of Old Main.

STUDENT CONDUCT

The University assumes that each student is a mature, responsible individual who has entered the institution for the purpose of educational advancement. On that assumption the University expects the student to direct his energy toward the highest scholastic achievement possible for the individual.

While attaining these high educational purposes the University requires that the student maintain a pattern of social behavior that is in keeping with good taste and high moral standards. The student is charged with the responsibility for regular class attendance, reasonable study hours, and a sane social program.

The University believes that the use of liquor by a student is detrimental to his welfare. Therefore, students entering their rooming places, either residence halls or private houses, under the influence of liquor, and students who introduce liquor into any rooming place or college building will be subject to dismissal from the University. Any function sponsored by or held in the name of a recognized student organization must abide by all University regulations whether that function be held on or off campus.

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 raised by the fact 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 may be expected to be mature enough to execute judgment regarding the extent to which they should join organizations, the University Council does not place negative restraints upon the individual except as follows:
 - (a) No student on academic or social probation, or on academic warning, may become a pledge or member of any student social organization.
 - (b) No student on academic or social 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 will be established at the beginning of the regular college year for the entire year except as noted under 2, 3-a and 3-b. There will be some instances where students ineligible at the beginning of the year may become eligible at the beginning of the second semester. The Academic Deans will make probation lists for their respective colleges and will 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. See *Social Probation*.

SOCIAL PROBATION

Social probation constitutes a warning to the student and his parents or guardian that his social conduct bears improvement. Recommendations that a student be placed on social probation may be made by the Student Court or the appropriate personnel dean to the President of the University whenever such action is indicated by the abuse of privileges or conduct at variance with college standards. A student on social probation is subject to suspension in the event of further instances of social misconduct. (When a student is placed

on social probation, the personnel deans, the academic deans, the faculty advisers of organizations to which the student belongs, and the Registrar will be notified.)

STUDENT ACTIVITIES BOARD

The Board membership is composed of the personnel deans, three faculty members and four students whose responsibilities include the coordination of student activities and the making and enforcement of regulations for student groups.

STUDENT GOVERNMENT

The purpose of student government is to provide an instrument which will make it possible 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.

ARTISTS SERIES, FORUMS, CONVOCATIONS

The Marshall University Artists Series, the Community Forum and Special 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 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, provides a recreational center for all students. For the convenience of students, a soda fountain is operated and other light refreshments are served. 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 AND PUBLIC SPEAKING

Marshall University 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, Discussion, After-Dinner Speaking and Extemporaneous Speaking. Tryouts for the Debate Squad and 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.

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 10-watt educational-FM radio station, began broadcasting in 1961. It is a University-wide activity, operated by a staff of volunteer students selected from among those 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 Monday thru Friday and for special events on Saturday.

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, Symphony Orchestra, Symphonic Choir, Men's Concert Choir, A Capella Choir, and Choral Union. 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 Music Department.

STUDENT PUBLICATIONS

THE PARTHENON is a semi-weekly news publication issued by students under the direction of the Department of Journalism.

THE STUDENT HANDBOOK is published annually in September by the Student Senate 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 emphases:

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, which is composed of Bowling Green University, Kent State University, Miami University, Ohio University, Toledo University, Western Michigan University and Marshall, and as such, schedules contests in all sports with each of its members whenever possible. It is the policy of the Athletic Board to schedule 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 charged by the West Virginia Board of Education with the enunciation and administration of athletic policy as part of the internal administration of the University. All persons serving on committees appointed by the President act solely in an advisory capacity.

The athletic program is under the direction of the Athletic Board, consisting of four faculty members, an alumnus, the University Comptroller, the President of the student body and the Athletic Director who serves as secretary ex-officio. The function of the Board is to supervise 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 to work in religious fields); Campus Christian Fellowship; Baptist Student Movement; Canterbury Club (Episcopal); Disciple Student Fellowship; Lutheran Student Movement; Methodist Student Movement; Newman Club (Roman Catholic); Westminster Fellowship (Presbyterian).

HONOR GROUPS: Alpha Epsilon Delta—Pre-Medical Fraternity; Alpha Kappa Delta—Sociological Society; 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; 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: American Chemical Society; Future Teachers of America; German Club; Home Economics Club; International Relations Club; La Sociedad Hispanica—Spanish Club; Le Cercle Francais—French Club; Marshall Classical Association; Marshall University Engineering Society; Philosophical Society; Pershing Rifles—Military Science; Pre-Law Fraternity; 4-H Club; Science Council; Veteran's Club; Women's Athletic Association; Varsity M Club; Young Republican Club; Circle K Club (Kiwanis); WMUL Radio Club.

NON-GREEK SOCIAL: Independent Student Association (men and women); Societas (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, Sigma Kappa, Sigma Sigma Sigma.

FRATERNITIES: Alpha Sigma Phi, Kappa Alpha, Kappa Alpha Psi, Lambda Chi Alpha, Pi Kappa Alpha, Sigma Alpha Epsilon, Sigma Phi Epsilon, Tau Kappa Epsilon and Zeta Beta Tau.

GREEK INTEREST: Crescent, Little Sisters of Minerva.

Scholarships and Loans

Applications for loans or scholarships may be made to the Dean of Men. Consideration will be 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 Men, the Dean of Women, and three faculty members.

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 capability, scientific ability, breadth of interests, and leadership qualities.

AMERICAN BUSINESS WOMENS ASSOCIATION, JEWEL CITY CHAPTER SCHOLARSHIP—A scholarship of \$200 per year awarded each year to an outstanding graduate of one of Huntington's city schools.

THE 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.

THE JULIUS BROH MEMORIAL SCHOLARSHIP—This fund provides \$100 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 (1) full year and has attained a "B" average for the preceding year. Although need is not a primary factor, consideration will be given to a student's financial situation.

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

*The availability of listed scholarships and loans constantly changes. In general, a student should not apply for a specific scholarship.

THE 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.

THE 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.

THE CHARLESTON PRESS CLUB SCHOLARSHIP—The Press Club of Charleston, West Virginia, offers \$200 annually to students majoring in journalism. Recipients must be residents of West Virginia.

CLASSES OF 1960, 1961, 1962 SCHOLARSHIPS: — These scholarships were established before the classes graduated to provide at least one semester of tuition for an incoming freshman. 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.

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

ETA MU PI SCHOLARSHIP—This scholarship, provided by the Lambda Chapter of Eta Mu Pi, offers \$100 per year to a junior or senior majoring in Retailing, and is awarded on the basis of scholarship, need, and interest in that field.

FRED FLESHMAN SCHOLARSHIP FUND—Two 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 continue to be met.

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 recommendation from three respected residents 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.

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.

THE 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 the 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 \$100 to a needy student who shows future promise. There are no restrictions as to sex or area of study.

THE HUNTINGTON KIWANIS CLUB SCHOLARSHIP—This is a scholarship in the amount of \$300 set up by the Huntington Kiwanis Club to help a student who has demonstrated good scholarship, good moral character, and financial need. For further information, contact the Dean of Men.

THE 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.

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.

THE 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.

THE IDA CALDWELL McFADDIN 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 the Associated General Contractors of 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 and who expects to pursue the field of engineering after graduation.

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 \$98 per semester, which

covers fees and tuition. Applications must be filed with the Director of Admissions by March 1. 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. Applications should be made to the Registrar or Dean of Men. 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.

THE 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.

THE 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. For further details consult the Dean of Men.

TRINITY EPISCOPAL CHURCH SCHOLARSHIPS—This fund of \$1,000 per year is granted to 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, in the amount of \$300.00 per year, is to be granted on a continuing basis at Marshall University for an engineering student, sophomore, junior, or senior. The recipient must be a resident of West Virginia. Although not mandatory, it is preferred he be in Civil Engineering. The scholarship is awarded to a student that would appreciate the money, where need for additional funds are indicated. Selection of the student to receive the scholarship will be on recommendation of the Chairman of the Department of Engineering and approved by the Dean of the College of Applied Science.

Final approval and confirmation will be made by the Student Aid Executive Board of Marshall University.

THE 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.

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

THE 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.

LOAN FUNDS

THE 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 will be 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.

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

THE BROH MEMORIAL LOAN FUND—Established in 1956, in the amount of \$3,000. The fund shall be 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. Loans will be repaid following graduation from college.

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 will be 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.

THE 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.

GENERAL LOAN FUND—A general emergency loan fund is available for amounts up to \$50 for 30 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. \$200 to be 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. To be repaid by August 1 of each year.

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 will be given to students whose parent is or was employed in a coal mine.

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.

THE 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.

THE 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.

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.

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 will be 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.

THE 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.

THE 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. A noninterest-bearing note will be furnished the recipient for a loan up to \$125.00 for 90 days.

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 shall sign the prescribed promissory note for the loan. For further details consult the Dean of Men.

THE 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.

THE 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.

LOAN FUND OF THE WOMAN'S CLUB OF HUNTINGTON: This loan fund, in the amount of \$1,038.95 plus accumulated interest, 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 Teacher's College. In exceptional cases, the loan may be made to Graduate Students.

Teachers College

PURPOSE

The Teachers College has for its purpose the preparation of prospective teachers for the elementary and secondary schools.

THE OBJECTIVES OF TEACHER EDUCATION

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

(1) To prepare broadly educated teachers for all levels of education, knowledgeable in their teaching specializations and in the learning processes, able to think critically and function effectively as teachers and citizens in the culture of the present, and 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 improve the preparation of the faculty, and to improve the conditions under which they function.

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

The objectives which are stated above were adopted by the faculty of the Teachers College on September 23, 1963.

WHAT STUDENTS ENROLL IN TEACHERS COLLEGE

Those students who desire to become teachers and who feel that 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 their academic dean.

COURSES IN COLLEGE OF ARTS AND SCIENCES AND COLLEGE OF APPLIED SCIENCE

Subject matter courses required of students and not offered by Teachers College will be completed in the several departments of the College of Arts and Sciences and College of Applied Science. Students enrolled in the other colleges may be admitted to courses offered by the several departments of Teachers College. However, while students are enrolled in the other colleges they may not complete more than five semester hours in education.

MAXIMUM CREDIT PERMITTED TEACHERS IN SERVICE

A total of nine 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 in service regardless of whether the courses are completed by correspondence, in extension or in residence or in a combination thereof.

COURSES OFFERED BY CORRESPONDENCE, TELEVISION, RADIO, AND SPECIAL EXAMINATION

Courses offered by correspondence, extension, radio and television, credit for military service, and credit by special examinations will be accepted by Marshall University for a maximum of not more than twenty-eight 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 (American Association of Colleges for Teacher Education) accrediting agency.

THE BACCALAUREATE DEGREE

Students enrolled in Teachers College who complete one of the four-year curriculums, and meet all requirements as to quality points and residence will receive the Bachelor of Arts degree. The completion of any of the four-year curriculums automatically carries with it completion of requirements for the appropriate Professional Certificate for teachers valid in West Virginia for five years.

THE CAMPUS LABORATORY SCHOOLS

The campus laboratory schools with their complete equipment and refined appointments accommodate pupils of grades kindergarten to twelve, inclusive.

The campus laboratory schools offer exceptional advantages for students entering upon the initial experiences in student teaching. The supervising teachers are ever ready to assist the novice to grow toward teaching efficiency. The laboratory schools include a four and a five-year kindergarten, a six-year elementary school, and a six-year 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 under the direction of experienced supervisors. This limited internship is for the purpose of helping 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.

The campus laboratory schools offer opportunity for other essential services in relation to the total teacher education program. In fact, they are an integral part of the Teachers College. Members of the university faculty have responsibilities daily in the laboratory schools. Some work with elementary pupils in music and art, others in the Marshall High School in health and physical education, in teaching classes, in observation of teaching, and in studying growth and development of children.

THE NURSERY SCHOOL

A nursery school is located on the university campus to which children two and three years of age may be admitted. This nursery school is modern in every particular in its equipment as well as in the services given to the young children. It is located on the first floor of the home management house and it is the laboratory for Child Care and Development, a required course in vocational home economics.

THE HOME MANAGEMENT HOUSE

A home management house for home economics majors is located on the Marshall University campus and affords adequate opportunities for experiences in group living and the various processes of managing a home. The students live in the house for eight weeks. The home management residence course is usually blocked with student teaching.

THE SEQUENCE OF PROFESSIONAL COURSES

Students who are enrolled in one of the four-year curricula must include each year in their academic program the professional courses in education in the sequence as designated below:

FIRST YEAR

Education 117, Introduction to Teaching, 2 semester hours.

SECOND YEAR

Education 118, Human Development, 3 semester hours.

THIRD YEAR

Students in elementary education:

Education 319, Human Development (Teaching and Learning),
3 semester hours.

Students in secondary education:

Education 319, Human Development (Teaching and Learning),
3 semester hours.

Materials and Methods in teaching field in which student teaching will be done, 2 semester hours.

FOURTH YEAR

Students in elementary education:

Education 400, Elementary Education, 6 semester hours.

Education 405, Student Teaching in Elementary Schools, 8 semester hours.

Students in kindergarten - primary education:

Education 409, Kindergarten - Primary Curriculum, 4 semester hours.

Education 410, Student Teaching in Kindergarten - Primary Grades, 1-3, 8 semester hours.

Students in secondary education:

Education 450, Supervised Student Teaching in Secondary Schools, 8 semester hours.

Education 475, Secondary Education, 4 semester hours.

All students must participate in professional laboratory experiences which are an integral part of the courses in education. These experiences may be described as activities in which students systematically observe the reactions of children in learning situations. Students will make a majority of their observations as participants of group activities of children.

All students will participate in organized activities involving direct associations with children in the following courses:

Education 118, Human Development, 3 semester hours.

Education 319, Human Development (Teaching and Learning) 3 semester hours.

The activity which is an integral part of Education 118, Human Development, involves being associated directly with children in a regularly organized learning activity which is a part of the school or community. As a part of Education 319, Human Development (Teaching and Learning), the students engage in a single activity which is to be an organized teaching experience and is to be pursued during the first or second semester of the third year under the direction of a supervising teacher in the campus laboratory schools. The professional laboratory experiences of the students will culminate in the fourth year with a semester of experiences including full-time student teaching.

SEPTEMBER EXPERIENCES

The faculty of the Department of Education has recommended 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 high school near their homes. The faculty believes that such a professional laboratory experience will provide students with a series of essential experiences not being provided through the activities of student teaching. Thus, the purpose of this experience will be to give students the opportunity to observe and if possible to participate actively in some of the happenings occurring in classrooms and elsewhere during the first several days of a school year.

At present participation in the "September Experience" will be voluntary. Students participating in this experience should secure from the Office of the Dean of Teachers College a statement of its purposes 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 Dean of Teachers College, it will become a part of the personnel 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 the courses in student teaching are done elsewhere, arrangements must be made in advance of such privilege.

Any candidate for graduation with a Bachelor of Arts 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 prior to the time of enrollment in any course in student teaching at Marshall must participate in student teaching on a full-time basis. In other words, each student must reserve one semester for a particular schedule of courses including student teaching. No student without experience in teaching will be permitted to enroll in student teaching during a summer session.

Students must complete satisfactorily the Qualifying Examination in English prior to registration for student teaching.

Students in elementary education who have not completed a course in student teaching or have not had experience in teaching and are completing the requirements for the Professional Elementary Certificate must reserve either the first or second semester of the fourth year for enrollment in the following courses including student teaching:

| | |
|---------------------|-------------------|
| Education 400 | 6 semester hours |
| Education 405 | 8 " " |

Students in secondary education who have not had experience in teaching must reserve either the first or second semester of the fourth year for enrollment in the following courses including student teaching:

| | |
|---------------------|-------------------|
| Education 450 | 8 semester hours |
| Education 475 | 4 " " |

In order to enroll in student teaching and other courses to be completed in the particular semester mentioned above, students must file in the office of the Dean of Teachers College an application for permission to enroll for each course in student teaching nine weeks prior to the opening of the semester or summer term in which the work in teaching is to be done.

Students having had experience in teaching may enroll in a course in student teaching during a summer session. Such students must submit an

application for permission to enroll in the course in student teaching to the Office of the Dean of Teachers College in the manner as described above.

The scholarship averages required before students are permitted to enroll in student teaching are the same as those required for graduation.

During the semester in which student teaching is included in the schedule of classes, students shall not enroll in more than seventeen (17) semester hours. Nor shall students include in a schedule along with full-time student teaching any course which meets regularly one or more times per week throughout the semester at an hour prior to 4:00 P. M.

SCHOLASTIC REQUIREMENTS FOR GRADUATION

All students must attain a certain scholastic standing as partial requirements for graduation. Students completing the 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 each of the two teaching fields, and for courses in education, including at least a grade of "C" in student teaching.

Students completing the 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 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.

All students must complete the National Teachers Examination during the senior year.

ELECTIVES IN LANGUAGES

The knowledge of a foreign language is usually helpful to students who expect to do graduate study. Students desiring to enroll in courses in foreign languages may do so at any time. At least six semester hours must be completed in order to count toward graduation.

TEACHER EDUCATION CURRICULUMS

(All freshmen entering the Teachers College September, 1963, will meet the requirements now being established for curriculums in teacher education. A supplement to this bulletin will be made available to all students affected.)

Outlined as follows are the requirements leading to the Bachelor of Arts degree and the Professional Certificate (minimum requirements 128 semester hours). The certificate for which a student is eligible upon graduation may be endorsed for teaching in the elementary and/or high school, the kindergarten and primary grades, in art, music, or physical education in Grades 1-12, in speech correction for Grades 1-12, and for teaching mentally retarded children.

When the Professional Certificate is endorsed for teaching in high schools the endorsement must be in two teaching fields with an exception being in vocational home economics.

GENERAL REQUIREMENTS FOR THE PROFESSIONAL CERTIFICATE

| | A.B. Degree Pro- fessional Certifi- cate Valid in Grades 1-9 | A.B. Degree Pro- fessional Certifi- cate Valid in Grades 1-12 | A.B. Degree Pro- fessional Certifi- cate Valid in Grades 7-12 |
|--|--|---|---|
| ENGLISH | | | |
| English 103-104 | 6 | 6 | 6 |
| English 203 | 3 | 3 | |
| English 215* | 3 | 3 | 3 |
| English 301 | 3 | 3 | 3 |
| English 300 | 3 | 3 | 3 |
| Minimum hours required | 18 | 18 | 15 |
| SOCIAL STUDIES | | | |
| Social Studies 104-105 | 6 | 6 | 6 |
| Social Studies 201-202 | 6 | 6 | 6 |
| Geography 317 | 3 | 3 | |
| Social Studies 303 | 3 | 3 | |
| History 311-312-313 | 9 | | |
| Orientation 100 | 0 | 0 | 0 |
| Minimum hours required | 27 | 18 | 12 |
| SCIENCE | | | |
| Science 107-108 or Science 109-110 | | | 6 |
| Science 107-108 | 6 | 6 | |
| Science 109-110 | 6 | 6 | |
| Mathematics Education 100-200 | 5 | 5 | |
| Minimum hours required | 17 | 17 | 6 |
| ART | | | |
| Art 113 | 2 | 2 | |
| Art 312 | 2 | 2 | 2 |
| Art 333 | 2 | 2 | |
| Minimum hours required | 6 | 6 | 2 |
| MUSIC | | | |
| Music 175 | 2 | 2 | 2 |
| Music 203 | 2 | 2 | |
| Music 370 | 2 | 2 | |
| Minimum hours required | 6 | 6 | 2 |

*All students must enroll in English 215 prior to the first semester of the junior year. Any student failing to receive a passing grade in English 215 must enroll for it each succeeding semester until successfully completed.

| | A.B. Degree Pro- fessional Certifi- cate Valid in Grades 1-9 | A.B. Degree Pro- fessional Certifi- cate Valid in Grades 1-12 | A.B. Degree Pro- fessional Certifi- cate Valid in Grades 7-12 |
|--|--|---|---|
| PHYSICAL EDUCATION | | | |
| Physical Education 113-114 or Military Science | 2 | 2 | 2 |
| Physical Education 221 | 2 | 2 | |
| Physical Education 314 | 2 | 2 | |
| Physical Education 311 or 330 | | | 1 |
| Physical Education 330-418 | | 2 | |
| Minimum hours required | 6 | 8 | 3 |
| EDUCATION | | | |
| Education 117-118 | 5 | 5 | 5 |
| Education 319 | 3 | 3 | 3 |
| Education 400-405 | 14 | 7 | |
| Education 450-475 | | 8 | 12 |
| Education, Methods in Teaching Field | | 2 | 2 |
| Minimum hours required | 22 | 25 | 22 |
| General Electives and Teaching Fields | 24 | 35 | 68 |
| Total hours required | Bachelor of Arts Degree | | |

NOTE: Of the 128 semester hours required for graduation with the Bachelor of Arts degree, 100 semester hours in nonprofessional courses and 20 semester hours in professional courses (education) must be completed as a minimum. At least 45 semester hours of the total required for graduation must be in the 300-400 series.

CURRICULUM IN ELEMENTARY EDUCATION

The general requirements for the Professional Certificate valid in elementary schools are listed below by years:

Professional Elementary Certificate and Bachelor of Arts Degree

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------------|------|------------------------------|------|
| Art 113 | 2 | Art 312 | 2 |
| English 103 | 3 | English 104 | 3 |
| Mathematics Education 100 | 3 | Education 117 | 2 |
| Orientation 100 | 0 | Music 175 | 2 |
| Physical Education 113 | 1 | Physical Education 114 | 1 |
| Science 107 or 109 | 3 | Science 108 or 110 | 3 |
| Social Studies 104 | 3 | Social Studies 105 | 3 |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------|------|--------------------------------|------|
| Art 333 | 2 | English 203 | 3 |
| Education 118 | 3 | English 301 | 3 |
| English 215 | 3 | Mathematics Education 200 | 2 |
| Music 203 | 2 | Physical Education 221 | 2 |
| Science 107 or 109 | 3 | Science 108 or 110 | 3 |
| Social Studies 201 | 3 | Social Studies 202 | 3 |
| | 16 | | 16 |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--|------|--|------|
| English 300 | 3 | Education 319 | 3 |
| Geography 317 or Social Studies 303 | 3 | Geography 317 or Social Studies 303 | 3 |
| History 311, 312 or 313 | 3 | History 311, 312 or 313 | 3 |
| Music 370 | 2 | Physical Education 314 | 2 |
| Electives (300-400) | 6 | Electives (300-400) | 6 |
| | 17 | | 17 |

FOURTH YEAR

| First Semester | Hrs. | Second Semester** | Hrs. |
|-------------------------------|-------|--------------------------|-------|
| History 311, 312 or 313 | 3 | Education 400 | 6 |
| Electives (300-400) | 13-14 | Education 405 | 8 |
| | 16-17 | Elective (300-400) | 2-3 |
| | | | 16-17 |

Recommended Electives for Students in Elementary Education

Art: 338

Economics: 300, 346, 348, 408

Education: 435, 443, 465, 490, 495

English: 307, 317, 325, 329, 331, 377, 433, 434, 450, 451

Geography: 305, 309, 315, 318, 401, 403

Geology: 200

History: 425, 426, 427

Home Economics: 303, 358, 400, 440

Philosophy: 201, 312, 315, 320, 410, 411, 419

Physical Education: 220, 222, 304, 305, 345, 347, 350, 405, 450, 470

Political Science: 201, 307, 405, 406, 410, 426

Science: 306, 307, 400, 482

Sociology: 308, 311, 408, 426, 427

Speech: 250, 260, 350, 418, 420, 432, 445

**If students have had no previous experience in teaching, they must in one semester enroll for the courses listed for the second semester of the fourth year. Students may enroll for the courses listed for the second semester of the fourth year in either the first or second semester.

A MINOR WITH ELEMENTARY EDUCATION

Students in Elementary Education may, if they wish, during the third and fourth years group electives so as to form a minor field. A minor in Geography is not a field which will meet certification requirements as shown on page 104.

GEOGRAPHY — 18 semester hours

| | |
|--------------------------|--------|
| Geography 203 | 3 hrs. |
| Geography 305 | 3 hrs. |
| Geography 317 | 3 hrs. |
| Geography 318 | 3 hrs. |
| Geography 320 | 3 hrs. |
| Geography elective | 3 hrs. |

KINDERGARTEN-PRIMARY CURRICULUM

The general requirements leading to graduation with the Bachelor of Arts degree and the Professional Certificate valid in Kindergarten and Grades 1, 2 and 3 are listed below by years.

Students completing the course requirements of this curriculum must in connection with the courses observe and participate a minimum of two hours per week in the Laboratory Elementary School each semester beginning with the second semester of the freshman year. Also at least 45 semester hours of the total required for the Bachelor of Arts degree must be in the 300-400 series.

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------------|------|------------------------------|------|
| English 103 | 3 | Art 113 | 2 |
| Mathematics Education 100 | 3 | Education 117 | 2 |
| Music 175 | 2 | English 104 | 3 |
| Orientation 100 | 0 | Physical Education 114 | 1 |
| Physical Education 113 | 1 | Science 108 or 110* | 3 |
| Science 107 or 109 | 3 | Social Studies 105 | 3 |
| Social Studies 104 | 3 | Elective | 3 |
| | 15 | | 17 |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------|------|--------------------------------|-------|
| Art 312 | 2 | English 301 | 3 |
| Education 118 | 3 | Home Economics 303 | 3 |
| English 203 | 3 | Mathematics Education 200 | 2 |
| English 215 | 3 | Physical Education 221 | 2 |
| Social Studies 201 | 3 | Social Studies 202 | 3 |
| Speech 250 | 3 | Electives | 3-4 |
| | 17 | | 16-17 |

*Science 108 must follow Science 107 and Science 110 must follow Science 109.

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|------------------------------|-------|------------------------------|------|
| Art 333 | 2 | Art 338 | 3 |
| Education 319 | 3 | Education 367 | 4 |
| English 300 | 3 | Home Economics 440 | 3 |
| Music 203 | 2 | Music 305 | 2 |
| Physical Education 314 | 2 | Physical Education 320 | 2 |
| Science 307 | 3 | Speech 350 | 3 |
| Elective (300-400) | 1-2 | | 17 |
| | 16-17 | | |

FOURTH YEAR

| First Semester** | Hrs. | Second Semester | Hrs. |
|---------------------|------|---------------------------|------|
| Education 409 | 4 | Electives (300-400) | 16 |
| Education 410 | 8 | | 16 |
| Elective | 3 | | |
| | 15 | | |

Suggested Electives

English: Literature in 300-400 series, such as English 317, 325, 351, 450, 451.

Geography: 318.

Library Science: 301, 404.

Science: Botany 305; Science 306, 400, 482.

Social Studies: Economics 300.

CURRICULUM FOR
TEACHERS OF MENTALLY RETARDED CHILDREN

The program is designed to lead to the Baccalaureate degree and the Professional Certificate valid in Grades 1-9. Upon completion of two years of successful teaching experience after receiving the Professional Certificate a person may have said certificate endorsed for teaching mentally retarded children provided he:

1. Receives the recommendation of the county superintendent where he was last employed as a teacher in an elementary school.
2. Receives the recommendation of the State Supervisor of Special Education.
3. Receives the recommendation of the college or university where he completed the course of study in the education of mentally retarded children.

The general requirements for the Bachelor of Arts degree and the Professional Certificate valid in Grades 1-9, with a specialization in teaching mentally retarded children, are listed below.

Students completing the program for the preparation of teachers of mentally retarded children must complete a total of 131 semester hours.

**Students may enroll in the schedule of courses designated for the first semester of the fourth year in either the first or second semester.

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------------------|-------------|---------------------------------|-------------|
| Art 113 | 2 | Art 312 | 2 |
| English 103 | 3 | Education 117 | 2 |
| Mathematics Education 100 | 3 | English 104 | 3 |
| Orientation 100 | 0 | Music 175 | 2 |
| Phys. Ed. 113 or Mil. Sci. | 1-2 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| Science 107 or 109 | 3 | Science 108 or 110 | 3 |
| Social Studies 104 | 3 | Social Studies 105 | 3 |
| | <hr/> 15-16 | | <hr/> 16-17 |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------|----------|---------------------------------|----------|
| Art 333 | 2 | English 203 | 3 |
| Education 118 | 3 | English 301 | 3 |
| English 215 | 3 | Mathematics Education 200 | 2 |
| Music 203 | 2 | Physical Education 221 | 2 |
| Science 107 or 109 | 3 | Science 108 or 110* | 3 |
| Social Studies 201 | 3 | Social Studies 202 | 3 |
| | <hr/> 16 | | <hr/> 16 |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------|----------|----------------------------------|----------|
| Art 338 | 3 | Education 432 | 3 |
| Education 319** | 3 | Education 435 | 3 |
| Education 420 | 3 | Social Studies 303 | 3 |
| English 300 | 3 | Physical Education 314 | 2 |
| Geography 317 | 3 | Speech 418 | 3 |
| Music 370 | 2 | Electives (300-400 series) | 3 |
| | <hr/> 17 | | <hr/> 17 |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------|----------|----------------------|----------|
| Education 443 | 3 | Education 405 | 4 |
| Education 452 | 3 | Education 440 | 4 |
| Speech 420 | 3 | Psychology 406 | 3 |
| Electives | 8 | Electives | 6 |
| | <hr/> 17 | | <hr/> 17 |

*Science 108 must follow Science 107 and Science 110 must follow Science 109.

**Teaching activity must be done with a class of mentally retarded children.

CURRICULUM FOR TEACHERS OF MUSIC

The following general requirements lead to the Professional Nonacademic Certificate valid in both elementary and high school for teaching vocal and instrumental music:

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---|-------|---|-------|
| English 103 | 3 | Education 117 | 2 |
| Physical Education 113 | 1 | English 104 | 3 |
| Social Studies 104 | 3 | Physical Education 114 | 1 |
| Music 115 | 4 | Music 116 | 4 |
| Music 175 | 2 | Music 123 | 2 |
| Applied Music, Major | 2 | Music 262 | 1 |
| Applied Music, Minor | 1 | Applied Music, Major | 2 |
| Music Ensemble (Band, Chorus or Orchestra) | 1 | Applied Music, Minor | 1 |
| | <hr/> | Music Ensemble (Band, Chorus or Orchestra) | 1 |
| | 17 | | <hr/> |
| | | | 17 |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---|-------|---|-------|
| English 215 | 3 | Education 118 | 3 |
| Science 107 or 109 | 3 | Science 108 or 110 | 3 |
| Speech 101 | 2 | Social Studies 105 | 3 |
| Music 215 | 4 | Music 216 | 4 |
| Music 262 | 1 | Applied Music, Major | 2 |
| Applied Music, Major | 2 | Applied Music, Minor | 1 |
| Applied Music, Minor | 1 | Music Ensemble (Band, Chorus or Orchestra) | 1 |
| Music Ensemble (Band, Chorus or Orchestra) | 1 | | <hr/> |
| | <hr/> | | 17 |
| | 17 | | |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---|-------|---|-------|
| Art 312 | 2 | English 301 | 3 |
| Education 319 | 3 | Social Studies 202 | 3 |
| English 300 | 3 | Music 301 | 2 |
| Social Studies 201 | 3 | Music 313 | 1 |
| Music 312 | 1 | Music 316 | 2 |
| Music 380 | 2 | Music 320 | 2 |
| Applied Music, Major | 2 | Music 462 | 1 |
| Music Ensemble (Band, Chorus or Orchestra) | 1 | Applied Music, Major | 2 |
| | <hr/> | Music Ensemble (Band, Chorus or Orchestra) | 1 |
| | 17 | | <hr/> |
| | | | 17 |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|------------------------------|------|-----------------------------------|------|
| Education 405 | 4 | Education 450 | 4 |
| Music Education 338 | 4 | Music Education 340 | 4 |
| Music 381 | 2 | Physical Education 311 or 330 ... | 1 |
| Music 422 | 3 | Music 423 | 3 |
| Music 462 | 1 | Music: Guided Music Elective ... | 2 |
| Applied Music, Major | 2 | Applied Music, Major and | |
| Music Ensemble (Band, Chorus | | Senior Recital | 2 |
| or Orchestra) | 1 | Music Ensemble (Band, Chorus | |
| | | or Orchestra) | 1 |
| | 17 | | 17 |

CURRICULUM IN SPEECH CORRECTION AND AUDIOLOGY

The following general requirements lead to a Bachelor of Arts Degree and the Professional Certificate in Grades 1-12:

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|------------------------------|------|------------------------------|------|
| English 103 | 3 | Education 117 | 2 |
| Orientation 100 | 0 | English 104 | 3 |
| Physical Education 113 | 1 | Physical Education 114 | 1 |
| Science 107 or 109 | 3 | Science 108 or 110* | 3 |
| Social Studies 104 | 3 | Social Studies 105 | 3 |
| Speech 101 | 2 | Speech 102 | 2 |
| Elective | 3 | Elective | 2 |
| | 15 | | 16 |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------|------|---------------------------------|------|
| Art 312 | 2 | Psychology 201 | 3 |
| Education 118 | 3 | Music 175 | 2 |
| English 215 | 3 | Social Studies 202 | 3 |
| Social Studies 201 | 3 | Speech 439 | 3 |
| Speech 240 | 3 | Speech 418 | 3 |
| English 301 | 3 | Elective (300-400 series) | 3 |
| | 17 | | 17 |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------------------|------|-----------------------------------|------|
| Education 319 | 3 | Physical Education 311 or 330 ... | 1 |
| Education 435 | 3 | Speech 420 | 3 |
| Speech 421 | 2 | Speech 422** | 3 |
| Speech 460 | 3 | Speech 462 | 3 |
| Speech 461 | 2 | Speech 463*** | 3 |
| Elective (300-400 series) | 3 | Speech 464*** | 3 |
| | 16 | | 16 |

*Science 107 must be followed by Science 108, and Science 109 must be followed by Science 110.

**Students working for certification in audiology only may omit these courses.

***Students working for certification in speech correction only may omit these courses.

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|----------------------|----------|---------------------------------|------|
| English 300 | 3 | Education 405 | 8 |
| Psychology 406 | 3 | Education 450 | 4 |
| Speech 423* | 3 | Elective (300-400 series) | 4 |
| Speech 424* | 3 | | |
| Speech 426* | 3 | | 16 |
| Speech 466** | 2 | | |
| | <hr/> 17 | | |

CURRICULUM IN SECONDARY EDUCATION

The general requirements leading to graduation with the Bachelor of Arts degree and the Professional Certificate with two teaching fields valid in Grades 7-12 are listed below by years:

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------------|-------------|----------------------------------|-------------|
| English 103 | 3 | Education 117 | 2 |
| Orientation 100 | 0 | English 104 | 3 |
| Phys. Ed. 113 or Mil. Sci. | 1-2 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| Science 107 or 109 | 3 | Science 108 or 110*** | 3 |
| Social Studies 104 | 3 | Social Studies 105 | 3 |
| Electives in Teaching Fields | 6 | Elective in Teaching Fields | 3 |
| | <hr/> 16-17 | | <hr/> 15-16 |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------------|----------|-----------------------------------|----------|
| Art 312 | 2 | English 301 | 3 |
| Education 118 | 3 | Music 175 | 2 |
| English 215 | 3 | Social Studies 202 | 3 |
| Social Studies 201 | 3 | Electives in Teaching Fields | 8 |
| Electives in Teaching Fields | 5 | | <hr/> 16 |
| | <hr/> 16 | | |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---|-------------|--|-------------|
| Education 319 | 3 | Physical Education 311 or 330 ... | 1 |
| Education, Methods and Materials in Teaching Field | 2 | Electives in Teaching Fields and 300-400 series | 15-16 |
| English 300 | 3 | | <hr/> 16-17 |
| Electives in Teaching Fields | 8-9 | | |
| | <hr/> 16-17 | | |

*Students working for certification in audiology only may omit these courses.

**Students working for certification in speech correction only may omit these courses.

***Science 107 must be followed by Science 108, and Science 109 must be followed by Science 110.

FOURTH YEAR

(See note below)

| First Semester | Hrs. | Second Semester | Hrs. |
|------------------------|-------|------------------------------|------|
| Education 475 | 4 | Electives in Teaching Fields | |
| Education 450 | 8 | and 300-400 series | 16 |
| General Elective | 0-3 | | |
| | 12-15 | | 16 |

Suggested Electives (300-400 Series) for Students in Secondary Education

Anthropology: 301, 426, 427, 430.

Art: 307, 333, 401, 402.

Bible: 302, 304, 315, 323.

Botany: 302, 304, 305, 316.

Business Administration: 307, 320, 340, 341, 343, 350.

Economics: 300, 346, 408, 444.

Education: 415, 417, 428, 435, 441, 445, 460, 465, 490.

English: 302, 307, 317, 325, 329, 331, 335, 377, 409, 411, 412, 417, 433, 434, 442, 450, 451.

Geography: 302, 305, 309, 315, 317, 320, 401, 403, 405, 410, 412.

Geology: 315.

Greek: 319, 435.

History: 301, 308, 309, 402, 425, 426, 427, 432.

Home Economics: 350, 351, 354, 358, 400, 440.

Journalism: 350, 351, 354, 358, 400, 406, 415, 416, 420, 440.

Latin: 322, 436.

Library Science: 301, 310, 401, 405, 410.

Philosophy: 312, 315, 320, 410, 411, 419.

Physical Education: 220, 307, 308, 330, 403, 405, 418, 460.

Political Science: 301, 303, 307, 405, 406, 407, 408, 409, 410, 426.

Safety Education: 235, 385, 490.

Science: 306, 400, 482.

Social Studies: 303.

Sociology: 305, 308, 311, 320, 342, 401, 408, 412, 421.

Spanish: 406.

Speech: 306, 320, 350, 360, 432, 445, 450.

Zoology: 307, 403, 408.

NOTE: If students have had no previous experience in teaching, they must in one semester enroll for the courses listed for the first semester of the fourth year. Students may enroll for the courses listed for the first semester of the fourth year in either the first or second semester.

Courses in education designed particularly for students in elementary education may not be completed by students in secondary education. Forty-five semester hours of the 128 required for graduation must be completed in courses of the 300-400 series.

Teaching Fields in Secondary Education

In addition to completing the general requirements, the student preparing for high school service must concentrate in two areas, called teaching fields. These fields are listed below (A to T) and under each designation the course requirements are indicated.

Required courses in each teaching field for the Professional Certificate valid in Grades 1-12 are indicated by an asterisk (*). In meeting the requirements for teaching in two fields in Grades 1-12 a minimum of 24 semester hours must be completed in each teaching field.

A. FOR TEACHERS OF ART**

The requirements for the Professional Nonacademic Certificate in Art valid in Grades 1 through 12 include in addition to the course requirements listed below the following course: Education 405. The total number of hours required in Art is 40.

| Subject Groups | Hours | Hours | Hours |
|---|-------|-------|-------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 34 |
| 1. Freehand Drawing | | 6 | |
| Art 101-102, Drawing | 6 | | |
| Art 406, Figure Drawing | 3 | | |
| 2. Design | | 6 | |
| Art 103, Principles of Drawing and Painting and Theory of Design | 3 | | |
| Art 200, Design | 2 | | |
| Art 305-306, Design | 6 | | |
| 3. Painting and Sculpture | | 6 | |
| Art 307, Sculpture | 3 | | |
| Art 350, Watercolor Painting | 3 | | |
| Art 455-456, Oil Painting | 6 | | |
| 4. Art History and Art Appreciation | | 8 | |
| Art 312, Art Appreciation | 2 | | |
| Art 401-402, History of Art | 6 | | |
| 5. Art Education | | 8 | |
| Art 113, Creative Expression in the Fine Arts | 2 | | |
| Art 333, Creative Expression in the Applied Arts .. | 2 | | |
| Art 460, History and Philosophy of Art Education . | 3 | | |
| Art 475, Seminar | 1 | | |

B. FOR TEACHERS OF BIOLOGICAL SCIENCE

| Subject Groups | Hours | Hours | Hours |
|---|-------|-------|-------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 35 |
| BIOLOGY | | 27 | |
| 1. Required Courses | 13 | | |
| Science 107-108, Biological Science* | 6 | | |
| Science 306, Field Biology* | 4 | | |
| Science 482, Conservation of Forest, Soil, and Wildlife* | 3 | | |

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

1. Complete satisfactorily a comprehensive examination in the content of the major area of study by the end of the sophomore year.
2. Present during the senior year a satisfactory exhibition of creative work.

| Subject Groups | Hours | Hours | Hours |
|--|-------|-------|-------|
| 2. Suggested Electives | 14 | | |
| Botany 302, Bacteriology | 4 | | |
| Botany 304, Plant Physiology | 4 | | |
| Botany 305, Economic Botany | 3 | | |
| Botany 315, Plant Morphology* | 4 | | |
| Botany 316, Local Plants | 4 | | |
| Science 330, Ecology | 4 | | |
| Science 483, Development of Scientific Thought | 3 | | |
| Zoology 212, Advanced General Zoology* | 4 | | |
| Zoology 302, Comparative Vertebrate Anatomy | 4 | | |
| Zoology 307, Genetics | 4 | | |
| Zoology 315, Human Anatomy and Physiology | 4 | | |
| Zoology 402, Vertebrate Natural History | 3 | | |
| Zoology 403, Entomology | 3 | | |
| Zoology 408, Ornithology | 3 | | |
| CHEMISTRY 103-104, GENERAL CHEMISTRY | | 8 | |

C. FOR TEACHERS OF BIOLOGICAL AND GENERAL SCIENCE

| Subject Groups | Hours | Hours | Hours |
|--|-------|-------|-------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 35 |
| BIOLOGY | | 21 | |
| 1. Required Courses | 13 | | |
| Science 107-108, Biological Science* | 6 | | |
| Science 306, Field Biology* | 4 | | |
| Science 482, Conservation of Forest, Soil, and Wildlife | 3 | | |
| 2. Suggested Electives | 8 | | |
| Botany 302, Bacteriology | 4 | | |
| Botany 304, Plant Physiology | 4 | | |
| Botany 305, Economic Botany | 3 | | |
| Botany 315, Plant Morphology* | 4 | | |
| Botany 316, Local Plants | 4 | | |
| Science 330, Ecology | 4 | | |
| Science 483, Development of Scientific Thought | 3 | | |
| Zoology 212, Advanced General Zoology* | 4 | | |
| Zoology 302, Comparative Vertebrate Anatomy | 4 | | |
| Zoology 307, Genetics | 4 | | |
| Zoology 315, Human Anatomy and Physiology | 4 | | |
| Zoology 402, Vertebrate Natural History | 3 | | |
| Zoology 403, Entomology | 3 | | |
| Zoology 408, Ornithology | 3 | | |
| CHEMISTRY 103-104, GENERAL CHEMISTRY | | 8 | |
| SCIENCE 109-110, PHYSICAL SCIENCE | | 6 | |

The curriculums for teachers of biological science and biological and general science are listed below by years:

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-------------------------------------|-------|---------------------------------|-------|
| English 103 | 3 | Education 117 | 2 |
| Phys. Ed. 113 or Mil. Sci. | 1-2 | English 104 | 3 |
| Orientation 100 | 0 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| Science 107 | 3 | Science 108 | 3 |
| Science 109 | 3 | Science 110 | 3 |
| Social Studies 104 | 3 | Social Studies 105 | 3 |
| Elective in other teaching field .. | 3 | | |
| | | | 15-16 |
| | 16-17 | | |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------|------|--------------------------|------|
| Education 118 | 3 | Chemistry 104 | 4 |
| Chemistry 103 | 4 | English 301 | 3 |
| English 215 | 3 | Music 175 | 2 |
| Social Studies 201 | 3 | Science 306 | 4 |
| Zoology 212 | 4 | Social Studies 202 | 3 |
| | 17 | | 16 |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------------------|------|--------------------------------------|------|
| Art 312 | 2 | Botany 315 or 316 | 4 |
| Botany 315 or 316 | 4 | Education 319 | 3 |
| English 300 | 3 | Education 474 | 2 |
| Electives in other teaching field .. | 7 | Physical Education 311 or 330 ... | 1 |
| | 16 | Electives in other teaching field .. | 6 |
| | | | 16 |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------------------|------|-------------------------------------|------|
| Biological Science | 4 | Education 450 | 6 |
| Science 482 | 3 | Education 475 | 4 |
| Electives in other teaching field .. | 10 | Education elective | 3 |
| | 17 | Elective in other teaching field .. | 3 |
| | | | 16 |

D. FOR TEACHERS OF BUSINESS EDUCATION— BUSINESS PRINCIPLES†

| Subject Groups | Hours | Hours | Hours |
|--|-------|-------|-------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 27 |
| 1. Typewriting | | 4 | |
| Business Administration 103-104, Typewriting* | 4 | | |

†It is recommended that business education majors complete requirements for both Occupational and Business Principles. If the student will do this, the number of hours required for the combination of fields will be 43. It is understood that an additional teaching field other than business education will also be selected.

| Subject Groups | Hours | Hours | Hours |
|--|-------|-------|-------|
| 2. Accounting | | 9 | |
| Business Administration 215-216, Principles of Accounting* | 6 | | |
| Business Administration 311, Advanced Accounting .. | 3 | | |
| 3. Business Mathematics | | 2 | |
| Business Administration 313, Mathematics of Business and Finance* | 2 | | |
| 4. Business Law | | 3 | |
| Business Administration 307, Principles of Business Law* | 3 | | |
| 5. Money, Credit, Banking* | | 3 | |
| Economics 310, Money and Banking* | 3 | | |
| 6. Marketing or Retail Merchandising* | | 3 | |
| Business Administration 340, Principles of Marketing, or Business Administration 343, Principles of Retailing* | 3 | | |
| 7. Consumer Business—Economic Problems | | 3 | |
| Economics 300, Survey of Economics, or Economics 346, Labor Problems | 3 | | |

**E. FOR TEACHERS OF BUSINESS EDUCATION —
OCCUPATIONAL†**

| Subject Groups | Hours | Hours | Hours |
|--|-------|-------|-----------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 32 |
| 1. Typewriting | | 4 | |
| Business Administration 103-104, Typewriting* | 4 | | |
| 2. Accounting | | 6 | |
| Business Administration 215-216, Principles of Accounting* | 6 | | |
| 3. Shorthand | | 11 | |
| Business Administration 201-202, Shorthand-Transcription* | 8 | | |
| Business Administration 301, Intermediate Dictation .. | 3 | | |
| 4. Business Mathematics | | 2 | |
| Business Administration 313, Mathematics of Business and Finance | 2 | | |
| 5. Secretarial Training and Office Practice | | 6 | |
| Business Administration 404, Secretarial Training* .. | 3 | | |
| Business Administration 405, Office Practice* | 3 | | |
| 6. Retail Merchandising, Salesmanship, Advertising | | 3 | |
| Business Administration 231, Principles of Selling .. | 2 | | |
| Business Administration 340, Principles of Marketing or*, | 3 | | |
| Business Administration 341, Principles of Advertising or*, | 3 | | |
| Business Administration 343, Principles of Retailing* | 3 | | |

†It is recommended that business education majors complete requirements for both Occupational and Business Principles. If the student will do this, the number of hours required for the combination of fields will be 43. It is understood that an additional teaching field other than business education will also be selected.

F. FOR TEACHERS OF ENGLISH

| Subject Groups | Hours | Hours | Hours |
|--|-------|-------|-------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 41 |
| 1. Composition, Oral and Written | | 12 | |
| English 103-104, First Year Written and Spoken | | | |
| English* | 6 | | |
| English 215, Second Year Written and Spoken | | | |
| English* | 3 | | |
| English 405, Study of the English Language* | 3 | | |
| 2. Literature | | 20 | |
| English 300, English Literature* | 3 | | |
| English 301, American Literature* | 3 | | |
| English 325, Shakespeare | 3 | | |
| English 420, Senior Seminar in Literature | 2 | | |
| English 450 or 451, World Literature | 3 | | |
| Electives in English*† | 6 | | |
| 3. Special Activities | | 3 | |
| Journalism 427 or 428, or Library Science 301* | 3 | | |
| 4. Latin or a modern language | | 6 | |

G. FOR TEACHERS OF FRENCH

| Subject Groups | Hours | Hours | Hours |
|--|-------|-------|-------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 24 |
| French 121-122, First Year French | | 6 | |
| French 223-224, Intermediate French | | 6 | |
| French 241-242, Intermediate Oral French | | 4 | |
| French 315-316, Advanced Composition and Reading | | 6 | |
| French 327-328, Seventeenth Century Literature | | 6 | |
| French 355-356, French Civilization and Culture | | 4 | |
| French 361-362, Advanced Oral French | | 4 | |
| French 435-436, Nineteenth Century Literature | | 6 | |
| French 455-456, Special Topics | | 4-8 | |
| French 495H-496H, Readings for Honors in French | | 8 | |

H. FOR TEACHERS OF GERMAN

| Subject Groups | Hours | Hours | Hours |
|---|-------|-------|-------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 25 |
| Required Courses | | 16 | |
| German 101-102, First Year German | 6 | | |
| German 203-204, Intermediate German | 6 | | |
| German 309-310, Conversation | 4 | | |
| Electives | | 9 | |
| German 301, Drama of the 18th, 19th, and 20th | | | |
| Centuries | 3 | | |
| German 302, Novels of the 18th, 19th, and 20th | | | |
| Centuries | 3 | | |
| German 317-318, Survey of German Literature | 6 | | |
| German 407-408, Goethe's <i>Faust</i> | 6 | | |

†Note: Students completing requirements for the Professional Certificate valid in Grades 1-12 must elect English 307, 317, 433, or 434.

I. FOR TEACHERS OF VOCATIONAL HOME ECONOMICS

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|------------------------------|------|------------------------------|------|
| English 103 | 3 | Education 117 | 2 |
| Home Economics 110 | 3 | English 104 | 3 |
| Music 175 | 2 | Home Economics 112 | 3 |
| Orientation 100 | 0 | Physical Education 114 | 1 |
| Physical Education 113 | 1 | Science 108 | 3 |
| Science 107 | 3 | Social Studies 105 | 3 |
| Social Studies 104 | 3 | | |
| | | | 15 |
| | 15 | | |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------|------|-----------------------------------|------|
| Art 312 | 2 | Chemistry 104 | 4 |
| Chemistry 103 | 4 | Education 118 | 3 |
| English 215 | 3 | English 301 | 3 |
| Home Economics 203 | 3 | Home Economics 210 | 3 |
| Home Economics 212 | 2 | Physical Education 311 or 330 ... | 1 |
| Social Studies 201 | 3 | Social Studies 202 | 3 |
| | | | 17 |
| | 17 | | |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------------------|------|--------------------------|------|
| Botany 302 | 4 | English 300 | 3 |
| Education 319 | 3 | Home Economics 329 | 3 |
| Home Economics 358 | 2 | Home Economics 351 | 3 |
| Home Economics 415 | 3 | Home Economics 354 | 3 |
| Home Economics Education 306† . | 3 | Home Economics 416 | 3 |
| Elective | 2 | Elective | 2 |
| | | | 17 |
| | 17 | | |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------------------|------|---------------------------------|------|
| Home Economics 303 | 3 | Home Economics 405† | 3 |
| Home Economics 454 | 3 | Home Economics 426† | 3 |
| Home Economics Education 406† . | 3 | Home Economics Education 450† . | 8 |
| Home Economics 420 | 3 | | |
| Electives | 4 | | 14 |
| | | | |
| | 16 | | |

†Block course

J. FOR TEACHERS OF LATIN

| Subject Groups | Hours | Hours | Hours |
|--|-------|-------|-------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 27 |
| (Latin 436 is required for all Latin majors.) | | | |
| Latin 101-102, First Year Latin | | 6 | |
| Latin 203-204, Intermediate Latin | | 6 | |
| Latin 306, Selections from Horace | | 3 | |
| Latin 307, Cicero's Letters | | 3 | |
| Latin 309, Livy: History | | 3 | |
| Latin 312, Tacitus: Annals | | 3 | |
| Latin 327, Advanced Prose Composition | | 3 | |
| Latin 401, Roman Life: Pliny, Martial, Juvenal | | 3 | |
| Latin 402, Vergil: Aeneid, VII-XII | | 3 | |
| Latin 403, The Roman Stage | | 3 | |
| Latin 436, Roman Civilization | | 3 | |
| Latin 450-451, Special Topics in Latin | 1-4 | | |
| Latin 495H-496H, Honors in Latin | | 8 | |

K. FOR SCHOOL LIBRARIANS

| Subject Groups | Hours | Hours | Hours |
|--|-------|-------|-------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 30 |
| Business Administration | | 2 | |
| Business Administration 103, Typewriting | 2 | | |
| Education | | 3 | |
| Education 465, Audio-Visual Aids in Learning | 3 | | |
| English | | 3 | |
| English 203, Children's Literature | 3 | | |
| Library Science | | 22 | |
| 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, Cataloguing and Classification .. | 3 | | |
| Library Science 404, Book Selection for Children | 2 | | |
| Library Science 405, Book Selection for Adolescents .. | 2 | | |
| Library Science 450, Library Practice (Field Work) .. | 3 | | |
| Library Science Elective: | | | |
| Library Science 401, History of Books and Libraries, or Library Science 410, Foundations of Mass Com- munication | | 3 | |

L. FOR TEACHERS OF MATHEMATICS

| Subject Groups | Hours | Hours | Hours |
|--|-------|-------|-------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 36-37 |
| (Students who have not had solid geometry in high school are required to take Mathematics 121. A student with good preparation in mathematics as shown by a placement examination will enroll in Mathematics 180; otherwise he will enroll in Mathematics 120. All students are required to take the following courses:) | | | |

| Subject Groups | Hours | Hours | Hours |
|--|-------|-------|-------|
| Required Courses | | | 35 |
| 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 Modern Algebra | 6 | | |
| Mathematics Education 200, Teaching Arithmetic .. | 2 | | |
| Electives | | 3-4 | |
| Mathematics 427, Advanced Calculus | 4 | | |
| Mathematics 435, Ordinary Differential Equations .. | 4 | | |
| Mathematics 446, Introduction to Theory of Statistics | 3 | | |

NOTE: The student should fulfill the science requirement with Science 109-110. It is recommended that the student also take one year of college physics.

M. FOR TEACHERS OF MUSIC AND A SECOND TEACHING FIELD

| Subject Groups | Hours | Hours | Hours |
|--|-------|-------|-------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 40 |
| 1. Theory | | 16 | |
| Music 115, Theory | 4 | | |
| Music 116, Theory | 4 | | |
| Music 215, Theory | 4 | | |
| Music 216, Theory | 4 | | |
| 2. History and Literature of Music | | 3 | |
| Music 423, History and Literature of Music | 3 | | |
| 3. Technique | | 9 | |
| Music 262-462, Instrumental Techniques | 3 | | |
| Music 380, Instrumental Conducting | 2 | | |
| Music 381, Choral Conducting | 2 | | |
| Music 312, Voice Training | 1 | | |
| Music 313, Voice Training | 1 | | |
| 4. Ensemble | | 8 | |
| Band, Orchestra, or Chorus (8 semesters) | 8 | | |
| 5. Applied Music† | | 4 | |
| Music 195 a, b, c, d, Piano (may substitute voice by demonstrating piano proficiency) | 4 | | |

NOTE: This curriculum is open only to outstanding music students who can demonstrate a high level of proficiency in one instrument or voice in a senior recital, to be approved by the music faculty before being recommended for graduation.

†Additional courses may be elected in applied music upon permission of department of music, but credit will not be counted toward the requirements for the degree.

N. FOR TEACHERS OF PHYSICAL EDUCATION

The requirements for the Professional Nonacademic Certificate in Physical Education valid in Grades 1 through 12 include in addition to the course requirements listed below the following courses: Physical Education 113, 114, 307 or 308, 314 and 450, and Education 405. The total number of hours required in physical education is 40.

All students completing a field in physical education must complete Science 107-108, Biological Science, 6 semester hours.

Subject Groups Hours Hours Hours

MINIMUM REQUIREMENTS FOR GRADUATION 36

Theory 17

1. Anatomy, Physiology and Kinesiology 6
Physical Education 321, Kinesiology 3 hrs.
(Zoology 315, Human Anatomy and Physiology, is recommended as a prerequisite to Physical Education 321.)
Physical Education 440, Physiology of Exercise 3 hrs.
2. Health Education and Hygiene 4
Physical Education 220, Personal Hygiene 2 hrs.
Physical Education 221, Health Education 2 hrs.
3. Principles, Organization and Administration of Health and Physical Education 3
Physical Education 410, Principles, Organization and Administration of Health and Physical Education 3 hrs.
4. Physical Inspection and Correction of Remedial Defects 4
Physical Education 322, Corrective Physical Education 3 hrs.
Physical Education 310, Practicum for Physical Education 322 1 hr.

Practice 19

Men Women
4 3

Team Sports 1

- Physical Education 103, Football (M) 1
Physical Education 108, Hockey and Field Ball (W) . 1
Physical Education 109, Track and Field (M) 1
Physical Education 110, Basketball (M, W) 1
Physical Education 111, Baseball (M) 1
Physical Education 112, Softball, Track, Field (W) . 1
Physical Education 206, Soccer and Speedball (M, W) 1

Recreational Activities, Individual and Dual Sports 5 3

Swimming (1 hour required)

- Physical Education 100, Beginners Course (M) 1
Physical Education 205, Intermediate (M, W) 1
Physical Education 403, Advanced Swimming (M, W) 1
Physical Education 404, Senior Life Saving and Water Safety Instruction (M, W) 1

| Subject Groups | Hours | | |
|---|-------|-------|-------|
| | Men | Hours | Women |
| Individual and Dual Sports (1 hour required) | | | |
| Physical Education 207, Archery and Tennis (M, W) | 1 | | |
| Physical Education 209, Individual and Dual Sports (M, W) | 1 | | |
| Physical Education 210, Individual and Dual Sports (M) | 1 | | |
| Physical Education 306, Tumbling (M, W) | 1 | | |
| Physical Education 309, Advanced Tumbling (M) | 1 | | |
| School and Community Activities | 6 | | 4 |
| Physical Education 222, First Aid (required) (M, W) | 2 | | |
| Physical Education 307, Scouting (M, W) | 1 | | |
| Physical Education 308, Camping and Hiking (M, W) | 1 | | |
| Physical Education 450, Playground and Community Recreation (M, W) | 2 | | |
| Physical Education 475, Principles and Techniques in Recreational Leadership (M, W) | 2 | | |
| Rhythm | 2 | | 4 |
| Physical Education 104, Marching and Calisthenics (M, W) | 1 | | |
| Physical Education 304, Creative Dance I (M, W) | 1 | | |
| Physical Education 305, Creative Dance II (M, W) | 1 | | |
| Physical Education 330, Rhythmic Activities (M, W) | 1 | | |
| Physical Education 401, Advanced Creative Dance III (M, W) | 1 | | |
| Physical Education 405, Advanced Folk Dancing and Tapping (M, W) | 1 | | |
| Methods of Teaching Techniques | 2 | | 5 |
| Physical Education 314, Materials and Methods for Elementary Schools (M, W) | 2 | | |
| Physical Education 340, Methods in Team and Individual Sports (W) | 1 | | |
| Physical Education 341, Methods in Rhythm (M, W) | 1 | | |
| Physical Education 420, Officiating (M, W) | 1 | | |
| Physical Education 421, Officiating (M, W) | 1 | | |
| Physical Education 425, Methods of Coaching Football and Basketball (M) | 2 | | |
| Suggested Electives for Students in Physical Education | | | |
| Physical Education: 335, 422, 465, 470, 482. | | | |
| Students who are veterans will receive four semester hours credit for military training. This credit may be applied as follows: | | | |
| Physical Education 222, First Aid | 2 | hours | |
| Recreational Activities | 4 | hours | |
| Team Sports | 4 | hours | |

Any unused portion of these four hours may be used as a general elective unless some course has been repeated. It is impossible to designate specific courses except First Aid. So, in order to be fair to the veteran, he is permitted to apply these credits as he chooses in the above group.

O. FOR TEACHERS OF PHYSICAL SCIENCE

| Subject Groups | Hours | Hours | Hours |
|---|-------|-------|-------|
| Minimum requirements for graduation | | | 32 |
| Chemistry | | 12 | |
| Chemistry 101-102, Principles* | 8 | | |
| Chemistry 217, Introductory Organic | 5 | | |
| Chemistry 218, Physiological | 5 | | |
| Geology 200, General Introductory Geology | | 4 | |
| Physics | | 13 | |
| Physics 201, 202, 203, 204, General* | 8 | | |
| Physics 314-315, Electronics | 5 | | |
| Science 400, Astronomy | | 3 | |

NOTE: Six hours Mathematics prerequisite for Physics courses.

P. FOR TEACHERS OF PHYSICAL AND GENERAL SCIENCE†

| Subject Groups | Hours | Hours | Hours |
|---|-------|-------|-------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 38 |
| Chemistry | | 12 | |
| Chemistry 101-102, Principles* | 8 | | |
| Chemistry 217, Introductory Organic | 5 | | |
| Chemistry 218, Physiological | 5 | | |
| Geology 200, General Introductory Geology | | 4 | |
| Physics | | 13 | |
| Physics 201, 202, 203, 204, General* | 8 | | |
| Physics 314-315, Electronics | 5 | | |
| Science | | 9 | |
| Science 107-108, Biological Science* | 6 | | |
| Science 400, Astronomy * | 3 | | |

NOTE: Six hours Mathematics prerequisite for Physics courses.

†Students who elect a teaching field in Physical and General Science will not take Science 109-110.

The curriculums for teachers of physical science and physical and general science are listed below by years:

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------------------|------|---------------------------------|-------|
| English 103 | 3 | Education 117 | 2 |
| Mathematics 120 | 3 | English 104 | 3 |
| (Mathematics 50-52) | | Mathematics 122 | 3 |
| Orientation 100 | 0 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| Phys. Ed. 113 or Mil. Sci. | 1-2 | Science 108 | 3 |
| Science 107 | 3 | Social Studies 105 | 3 |
| Social Studies 104 | 3 | | |
| Electives in other teaching field .. | 3 | | 15-16 |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-------------------------------------|-------|--------------------------------------|-------|
| Art 312 | 2 | Chemistry 102 | 4 |
| Chemistry 101 | 4 | English 301 | 3 |
| Education 118 | 3 | Music 175 | 2 |
| English 215 | 3 | Social Studies 202 | 3 |
| Social Studies 201 | 3 | Electives in other teaching field .. | 4-6 |
| Elective in other teaching field .. | 1-3 | | |
| | | | 16-18 |
| | 16-18 | | |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------|------|--------------------------------------|-------|
| Chemistry 217 | 5 | Geology 200 | 4 |
| Education 319 | 3 | Physical Education 311 or 330 ... | 1 |
| Education 474 | 2 | Physics 203 | 3 |
| English 300 | 3 | Physics 204 | 1 |
| Physics 201 | 3 | Science 400 | 3 |
| Physics 202 | 1 | Electives in other teaching field .. | 4-6 |
| | | | 16-18 |
| | 17 | | |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------------------|------|--------------------------------------|------|
| Physics 314-315 | 5 | Education 450 | 8 |
| Electives in other teaching field .. | 12 | Education 475 | 4 |
| | | Electives in other teaching field .. | 4 |
| | 17 | | 16 |

Q. FOR TEACHERS OF SPANISH

| Subject Groups | Hours | Hours | Hours |
|---|-------|-------|-------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 27 |
| Spanish 101-102, Elementary Courses | | 6 | |
| Spanish 203-204, Intermediate Courses | | 6 | |
| Spanish 310-311, Advanced Conversation and Composition | | 4 | |
| Spanish 312-313, Spanish American Literature | | 4 | |
| Spanish 320, Prose Readings of the Nineteenth and Twentieth Centuries, or | | | |
| Spanish 330, Modern Drama | | 3 | |
| Spanish 406, Hispanic Civilization | | 3 | |
| Spanish 410, Spanish Literature from the Cid to the 17th Century, or | | | |
| Spanish 420, Drama of the Golden Age | | 3 | |
| Spanish 495H-496H, Readings for Honors in Spanish | | 8 | |

R. FOR TEACHERS OF SOCIAL STUDIES

| Subject Groups | Hours | Hours | Hours |
|---|-------|-------|-----------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 36 |
| Social Studies (Integrated Courses) | | 15 | |
| Social Studies 104-105, Development of Social Institutions* | 6 | | |
| Social Studies 201-202, Fundamental Social Problems* | 6 | | |
| Social Studies 303, West Virginia History, Government and Geography* | 3 | | |
| History | | 12 | |
| History 311-312-313, American History (1492- Present)* | 9 | | |
| History 321-322, Modern Europe (1492-Present) .. | 3-6 | | |
| Government | | 3 | |
| Political Science 201, American National Government* | 3 | | |
| Economics or Sociology | | 3 | |
| Economics 300, Survey of Economics | 3 | | |
| Sociology 200, Introductory Sociology | 3 | | |
| Geography | | 3 | |
| Geography 317, World Geographical Problems* | 3 | | |

S. FOR TEACHERS OF SPEECH

| Subject Groups | Hours | Hours | Hours |
|---|-------|-------|-----------|
| MINIMUM REQUIREMENTS FOR GRADUATION | | | 32 |
| Speech 101, Practical Public Speaking* | | 2 | |
| Speech 102, Practical Public Speaking* | | 2 | |
| Speech 205, Argumentation and Debate* | | 3 | |
| Speech 210, Acting | | 3 | |
| Speech 240, Voice Training* | | 3 | |
| Speech 260, Fundamentals of Radio and Television .. | | 3 | |
| Speech 312-313, Play Production | | 4 | |
| Speech 320, Oral Interpretation of Literature | | 3 | |
| Speech 403, Play Direction* | | 3 | |
| Speech 418, Speech Correction* | | 3 | |
| Speech 450, Direction of Speech Activities | | 3 | |

T. SPECIALIZATION FOR TEACHING IN JUNIOR HIGH SCHOOLS AND/OR A MINOR FIELD IN SENIOR HIGH SCHOOLS

A Professional Certificate valid in elementary schools and/or high schools may be endorsed for teaching one or more fields in junior high schools (Grades 7-9), or a minor assignment (a third teaching field) in senior high schools (Grades 7-12) upon completion of the courses as outlined below for the respective fields:

| Field | Hours | Hours |
|---|--------|-------|
| ART | | 18 |
| Art 101, Drawing | 3 | |
| Art 103, Principles of Drawing and Painting and Theory of Design | 3 | |
| Art 113, Creative Expression in the Fine Arts | 2 | |
| Art 312, Art Appreciation | 2 | |
| Art 338, Art Education | 3 | |
| Art 350, Water Color Painting, or Art 455, Oil Painting | 3 | |
| Art Elective | 2 | |
| BIOLOGICAL SCIENCE | | 18 |
| Science 107-108, General Biological Science | 6 | |
| Science 109 or 110, General Physical Science | 3 | |
| Electives | 9 | |
| Botany 315, Plant Morphology, or | | |
| Botany 316, Local Plants | 4 hrs. | |
| Science 306, Field Biology | 4 hrs. | |
| Zoology 212, Advanced General Zoology ... | 4 hrs. | |
| BUSINESS EDUCATION | | 18 |
| Business Administration 103-104, Typewriting | 4 | |
| Business Administration 215-216, Accounting | 6 | |
| Business Administration 201-202, Shorthand- Transcription | 8 | |
| ENGLISH | | 18 |
| English 103-104, First Year Written and Spoken English | 6 | |
| English 215, Second Year Written and Spoken English | 3 | |
| English 300, English Literature | 3 | |
| English 301, American Literature | 3 | |
| English 405, Study of the English Language | 3 | |
| FRENCH† | | 18 |
| French 121-122, First Year French | 6 | |
| French 223-224, Intermediate French | 6 | |
| French 241-242, Intermediate Oral French | 4 | |
| French 315, Advanced Composition and Reading | 3 | |
| French 327, 328, 435, or 436 | 3 | |

†Must complete 18 hours regardless of prior experience in the language.

| Field | Hours | Hours |
|---|-------|-------|
| GERMAN | | 18 |
| German 101-102, First Year | 6 | |
| German 203-204, Intermediate | 6 | |
| German 309, Conversation | 2 | |
| German 301, 317, 318, or 407 | 4 | |
| JOURNALISM | | 18 |
| Journalism 201 or 202, Reporting | 3 | |
| Journalism 301 or 302, Copy Reading, Editing | 3 | |
| Journalism 427, Journalistic English | 3 | |
| Journalism 428, High School Newspapers | 3 | |
| Electives in Journalism | 6 | |
| MATHEMATICS | | 19 |
| Mathematics Education 100, College Arithmetic | 3 | |
| Mathematics 121, Solid Geometry | 3 | |
| Mathematics 122, Plane Trigonometry | 3 | |
| Mathematics Education 200, Teaching Arithmetic | 2 | |
| Mathematics 123, College Algebra | 3 | |
| Mathematics Education 200, Teaching Arithmetic | 2 | |
| Elective in Mathematics | 3 | |
| MUSIC | | 18 |
| Music 115-116, Elementary Theory | 8 | |
| Music 175, Music in Human Relations | 2 | |
| Music 262, Instrumental Techniques, or Music 312 and 313, Vocal Techniques | 2 | |
| Music 380, Conducting | 2 | |
| Applied Music | 4 | |
| PHYSICAL EDUCATION | | 18 |
| Physical Education 113-114, Orientation to Physical Education | 2 | |
| Physical Education 221, Health Education | 2 | |
| Physical Education 222, First Aid | 2 | |
| Physical Education 306, Tumbling | 1 | |
| Physical Education 330, Rhythmic Activities | 1 | |
| Physical Education 347, Laboratory Consisting of Practice in Junior and Senior High School | 2 | |
| Physical Education 350, Adapted Physical Education for Junior and Senior High Schools | 2 | |
| Physical Education 420, Officiating | 1 | |
| Physical Education 421, Officiating | 1 | |
| Physical Education 450, Playground and Community Recreation | 2 | |
| Individual or Dual Sports | 1 | |
| Team Sports | 1 | |

| Field | Hours | Hours |
|---|-------|-------|
| GENERAL SCIENCE | | 18 |
| Science 107-108, General Biological Science | 6 | |
| Science 109-110, General Physical Science | 6 | |
| Science 482, Conservation of Forests, Soil and Wildlife | 3 | |
| Elective in Science | 3 | |
| PHYSICAL SCIENCE | | 18 |
| Chemistry 101-102, Principles of Chemistry | 8 | |
| Physics 201-203, General Physics | 6 | |
| Physics 202-204, General Physics (Laboratory) | 2 | |
| Elective in Science | 2 | |
| SCHOOL LIBRARIAN | | 22 |
| Business Administration 103, Typewriting | 2 | |
| Education 465, Audio-Visual Aids in Learning | 3 | |
| 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, Cataloguing and Classification .. | 3 | |
| Library Science 404, Book Selection for Children, or | | |
| Library Science 405, Book Selection for Adolescents | 2 | |
| Library Science 450, Library Practice | 3 | |
| SOCIAL STUDIES | | 18 |
| Social Studies 104-105, Development of Social | | |
| Institutions | 6 | |
| Social Studies 201-202, Fundamental Social Problems | 6 | |
| Geography 317, World Geographical Problems | 3 | |
| History 311, 312, or 313, American History | 3 | |
| SPANISH | | 18 |
| Spanish 101-102, Elementary Course | 6 | |
| Spanish 203-204, Intermediate Course | 6 | |
| Spanish 310 or 311, Advanced Conversation | 2 | |
| Spanish 320, Prose Readings of the 19th and 20th | | |
| Centuries, or Spanish 330, Modern Drama | 3 | |
| Elective in Spanish | 2-3 | |
| SPEECH | | 19 |
| Speech 101-102, Practical Public Speaking | 4 | |
| Speech 240, Voice Training | 3 | |
| Speech 320, Oral Interpretation | 3 | |
| Speech 403, Play Direction | 3 | |
| Speech 418, Speech Correction | 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, Bachelor of Science in Chemistry, and Bachelor of Business Administration; also the two-year degrees: Associate in Arts, and Associate in Science.

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

English, Latin, French, Spanish, German, Greek, art, speech, music, physical education, Bible, orientation.

DIVISION OF SCIENCES: MATHEMATICS AND THE NATURAL AND PHYSICAL SCIENCES

Mathematics, physics, chemistry, geology, home economics, botany including bacteriology, zoology, business administration.

DIVISION OF SOCIAL SCIENCES

History, sociology, economics, political science, journalism, philosophy, anthropology, psychology, geography, education, military science.

Through the requirement of a minimum number of hours from each group, overspecialization will be 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.

Course for Credit

Juniors and seniors in the College of Arts and Sciences who have made the Dean's list for two succeeding semesters are encouraged to choose a 300 or 400 level course which will be in excess of the normal class load; credit for such a course is given but no grade is reported. It presents superior students with the opportunity for intellectual exploration without having to work for a grade. Further details may be had at the Dean's office.

Requirements for Degrees

THE BACCALAUREATE DEGREE

A student registering in the College of Arts and Sciences may elect to receive one of the following degrees: Bachelor of Arts (A.B.), Bachelor of Science (B.S.), Bachelor of Science in Chemistry (B.S. in Chem.), or Bachelor of Business Administration (B.B.A.). 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.

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. degrees.
- (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) ALL SPECIFIC REQUIREMENTS for the A.B. and B.S. degrees as stated below and on pages 110 and 111 must be completed before the student reaches the senior level. All seniors, however, who find it necessary to take a required course in the 100 series must make a grade of B or higher to receive full credit toward graduation, otherwise half credit will be allowed.
- (6) 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 Arts and Science College Department.
- (7) No more than eight hours may be elected in the Department of Education by students in the College of Arts and Sciences.
- (8) 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.
- (9) All students are required to pass the qualifying examination in English composition, see page 42.

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 three of which may be from the 100 series. The minor subject may be such as the students select.

- (2) Other general requirements are the same as those numbered (1), (4), (5) and (9) under the statement of GENERAL REQUIREMENTS.
- (3) See (3) under GENERAL REQUIREMENTS above.

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 101 and 102 4 hrs.

III. Foreign Language

The requirements in a foreign language for the Bachelor of Arts degree will fall under one of the following categories:

1. If the student has no high school language he must earn eighteen hours of language credit in college. These hours may be in one language or twelve hours may be earned in one and six 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 fifteen 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 twelve hours of college credit in one language. These hours may be earned in the language which was begun 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.

Note: Students who have had one or more years of high school language and who wish to continue the same language in college will take a placement test to determine the course they will enter. Depending on the placement test results, it may be necessary to take a review course without college credit.

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, and d.

- | | |
|-------------------------------------|----------|
| a. Physics | 8 hrs. |
| b. Chemistry | 8 hrs. |
| c. Botany 203 and Zoology 211 | 8 hrs. |
| d. Geology | 7-8 hrs. |

Total 15-16 sem. hrs.

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

- 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 sem. hrs. |
| GRAND TOTAL | 65-67-68 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 101 and 102 4 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. Botany 203 and Zoology 211 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.

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 78-80 hrs.

Specific Requirements for the B. B. A. and B. S. in Chemistry Degrees

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

TWO-YEAR CURRICULUMS

For those who for various reasons 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 will serve three purposes: (1) They will 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 will enable the student to prepare better for some vocation or phase of work in which he may be interested; (3) they will give the student a feeling of satisfaction of having completed a course of study.

Upon the completion of one of these courses the student may be granted the degree of Associate in Arts or Associate in Science, depending on the course pursued. 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 |
| Botany 203 | 4 | Zoology 211 | 4 |
| Political Science 201 | 3 | Sociology 200 | 3 |
| Mathematics 110 or 120 | 3 | Mathematics 122* | 3 |
| Language | 3 | Language | 3 |
| | <hr/> 16 | | <hr/> 16 |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|----------------------------|----------|----------------------------|----------|
| English 300 | 3 | English 301 | 3 |
| History (300 level) | 3 | Chemistry or Physics | 4 |
| Chemistry or Physics | 4 | Psychology 201 | 3 |
| Economics 241 | 3 | Language | 3 |
| Language | 3 | Electives | 3 |
| | <hr/> 16 | | <hr/> 16 |

*If Physics is taken.

BUSINESS ADMINISTRATION**Accounting****TWO-YEAR COURSE******FIRST YEAR**

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------------------|--------------|---------------------------------|--------------|
| English 101 | 3 | English 102 | 3 |
| Speech 101 | 2 | Speech 102 | 2 |
| Phys. Ed. 113 or Mil. Sci. | 1-2 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| Bus. Adm. 103* | 2 | Political Science 201 | 3 |
| Bus. Adm. 215 | 3 | Math. 110 | 3 |
| Elective | 3 | Bus. Adm. 216 | 3 |
| | <u>14-15</u> | | <u>15-16</u> |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------------|-----------|--------------------------------|--------------|
| English 300 | 3 | English 301 | 3 |
| Science (A. & S. Course) | 4 | Science (A. & S. Course) | 3-4 |
| Economics 241 | 3 | Economics 242 | 3 |
| Bus. Adm. 307 | 3 | Bus. Adm. 306 | 3 |
| Bus. Adm. 311 | 3 | Bus. Adm. 312 | 3 |
| | <u>16</u> | | <u>15-16</u> |

Total hours must equal or exceed64

General Business**TWO-YEAR COURSE****FIRST YEAR**

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------------------|--------------|---------------------------------|--------------|
| English 101 | 3 | English 102 | 3 |
| Speech 101 | 2 | Speech 102 | 2 |
| Phys. Ed. 113 or Mil. Sci. | 1-2 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| Bus. Adm. 103* | 2 | Political Science 201 | 3 |
| Bus. Adm. 215 | 3 | Math. 110 | 3 |
| Elective | 3 | Bus. Adm. 216 | 3 |
| | <u>14-15</u> | | <u>15-16</u> |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------------|--------------|--------------------------------|--------------|
| English 300 | 3 | English 301 | 3 |
| Science (A. & S. Course) | 4 | Science (A. & S. Course) | 3-4 |
| Economics 241 | 3 | Economics 242 | 3 |
| Bus. Adm. 231 | 2 | Bus. Adm. 320 | 3 |
| Bus. Adm. 307 | 3 | Bus. Adm. 340 | 3 |
| Elective | 2-3 | | |
| | <u>17-18</u> | | <u>15-16</u> |

Total hours must equal or exceed64

*Unless one or more years of typing have been taken in high school.

**For degree curricula see page 117.

Retailing**TWO-YEAR COURSE****FIRST YEAR**

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------------------|-------|---------------------------------|-------|
| English 101 | 3 | English 102 | 3 |
| Speech 101 | 2 | Speech 102 | 2 |
| Phys. Ed. 113 or Mil. Sci. | 1-2 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| Bus. Adm. 103* | 2 | Psychology 201 | 3 |
| Bus. Adm. 215 | 3 | Bus. Adm. 216 | 3 |
| Math. 110 | 3 | Bus. Adm. 231 | 2 |
| Home Economics 212 | 2 | | |
| | | | 14-15 |
| | 16-17 | | |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--|------|-------------------------------|-------|
| English 300 | 3 | English 301 | 3 |
| Science (A. & S. Course) | 4 | Science (A. & S. Course) | 3-4 |
| Economics 241 | 3 | Economics 242 | 3 |
| Bus. Adm. 340 | 3 | Bus. Adm. 343 | 3 |
| Bus. Adm. 341 | 3 | Bus. Adm. 345 | 3 |
| | 16 | | 15-16 |
| Total hours must equal or exceed | | | 64 |

Secretarial**TWO-YEAR COURSE****FIRST YEAR**

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------------------|-------|---------------------------------|-------|
| English 101 | 3 | English 102 | 3 |
| Speech 101 | 2 | Speech 102 | 2 |
| Phys. Ed. 113 or Mil. Sci. | 1-2 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| Bus. Adm. 103** | 2 | Bus. Adm. 104 | 2 |
| Bus. Adm. 201*** | 4 | Bus. Adm. 202 | 4 |
| Bus. Adm. 215 | 3 | Bus. Adm. 216 | 3 |
| | 15-16 | | 15-16 |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--|------|-------------------------------|-------|
| English 300 | 3 | English 301 | 3 |
| Science (A. & S. Course) | 4 | Science (A. & S. Course) | 3-4 |
| Economics 241 | 3 | Economics 242 | 3 |
| Bus. Adm. 301 | 3 | Bus. Adm. 304 | 2 |
| Bus. Adm. 307 | 3 | Bus. Adm. 305 | 3 |
| | | Bus. Adm. 308 | 3 |
| | 16 | | 17-18 |
| Total hours must equal or exceed | | | 64 |

*Unless one or more years of typing have been taken in high school.

**Not open to students who have had one year of typing in high school.

***Not open to students who have had one year of shorthand in high school.

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 should satisfy, namely:

1. Successful performance in a 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 the second semester of the senior year.

Students in the College of Arts and Sciences may major in Art and earn the A.B. Degree by meeting the general and specific requirements and by taking the following courses in Art:

| | | |
|--|---|------------|
| Art 101, 102, Drawing | } | 6 hrs. |
| Art 406, Figure Drawing | | |
| Art 103, Principles of Drawing, Painting and Theory of Design .. | | 3 hrs. |
| Art 200, Design | } | 5-6 hrs. |
| Art 305, Design | | |
| Art 306, Design | | |
| Art 307, Sculpture | } | 6 hrs. |
| Art 350, Water Color Painting | | |
| Art 455, 456, Oil Painting | | |
| Art 401, 402, History of Art | | 6 hrs. |
| Total | | 26-27 hrs. |

Elect five or six hours from the following:

| | |
|---------------------------------|--------|
| Art 202, Lettering | 2 hrs. |
| Art 214, Design | 3 hrs. |
| Art 216, Commercial Art | 3 hrs. |
| Art 312, Art Appreciation | 2 hrs. |

Grand Total 32 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 12 hours in Botany, 12 hours in Zoology and 8 hours chosen under the guidance of the department chairman. Students with this major are urged to work for the B.S. degree.

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

| | |
|---|---------|
| Zoology 211, 212 and 301 or 302 | 12 hrs. |
| Botany 203, 316 and 302 or 304 or 315 | 12 hrs. |
| Additional hours in 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 desire to gain a more profound understanding of the nature of religion and its importance to man and his society. One may secure a major in the department by completing a minimum of 26 hours of course work.

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.

BOTANY MAJOR

B.S. DEGREE

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|------------------------|------|------------------------|------|
| English 101 | 3 | English 102 | 3 |
| Speech 101 | 2 | Speech 102 | 2 |
| Botany 203 | 4 | Zoology 211 | 4 |
| Mathematics 120 | 3 | Mathematics 122 | 3 |
| Foreign Language | 3 | Foreign Language | 3 |
| Phys. Ed. 113* | 1 | Phys. Ed. 114* | 1 |
| | 16 | | 16 |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|------------------------|-------|------------------------|------|
| Botany 315 | 4 | Botany 316 | 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 |

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

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------|----------|-----------------------|----------|
| Botany 302 | 4 | Botany 304 | 4 |
| Physics 201-202 | 4 | Physics 203-204 | 4 |
| Chemistry 217 | 5 | Geology 200 | 4 |
| Social Science | 3 | Social Science | 5 |
| | <hr/> 16 | | <hr/> 17 |

FOURTH YEAR

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

BUSINESS ADMINISTRATION

Areas of concentration within this department are: advertising, accounting, banking and finance, business management, marketing-retailing, and secretarial science. Except for the advertising curriculum, all curricula 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 |
| Speech 101 | 2 | Speech 102 | 2 |
| Math. 110 | 3 | Language* | 3 |
| Language* | 3 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| Phys. Ed. 113, or Mil. Sci. | 1-2 | Bus. Adm. 104† | 2 |
| Bus. Adm. 103† | 2 | Political Science 201 | 3 |
| Pol. Sci. 101 Recommended | 2 | Psychology 201 | 3 |
| Orientation 100 | 0 | Home Economics 212*** | 2 |
| | <hr/> 16-17 | | <hr/> 15-16 |

*Twelve hours of one foreign language are required unless the student presents two units of one foreign language from high school.

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

†Not open to students who have had one year of typewriting in high school or the equivalent.

‡Required only of students following the Secretarial curriculum.

***Required only of students following Marketing-Retailing curriculum.

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|----------------------|-------|-----------------------|-------|
| Bus. Adm. 215 | 3 | Bus. Adm. 216 | 3 |
| or | | or | |
| Bus. Adm. 201§ | 4 | Bus. Adm. 202†† | 4 |
| Economics 241 | 3 | Economics 242 | 3 |
| English 300 | 3 | English 301 | 3 |
| Language* | 3 | Language* | 3 |
| Science†† | 4 | Science†† | 3-4 |
| | 16-17 | | 15-17 |

Accounting Curriculum

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------------|------|-----------------------------------|------|
| Business Administration 307 | 3 | Business Administration 306 | 3 |
| Business Administration 311 | 3 | Business Administration 308 | 3 |
| Business Administration 320 | 3 | Business Administration 312 | 3 |
| Economics 310 | 3 | Business Administration 313 | 2 |
| Geography 203 | 3 | Economics 342 | 3 |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------------|------|-----------------------------------|------|
| Business Administration 318 | 3 | Business Administration 324 | 3 |
| Business Administration 323 | 3 | Business Administration 413 | 3 |
| Business Administration 340 | 3 | Business Administration 415 | 3 |
| Business Administration 411 | 3 | | |
| Business Administration 412 | 3 | | |

Electives must include courses in psychology, sociology or philosophy.

§Required for secretarial curriculum unless the student presents one unit (one year) of shorthand from high school or the equivalent. Students following the secretarial curriculum should postpone Bus. Adm. 215-216 until the third year. Bus. Adm. 201-202 not required in other curricula.

*Twelve hours of one foreign language are required unless the 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 Science laboratory courses: physics, 8 hours; chemistry, 8 hours; botany, 4 hours, and zoology, 4 hours; or geology, 7 hours.

††Required only of students following the secretarial curriculum.

Advertising Curriculum

B. S. DEGREE

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------------------|-------|---------------------------------|-------|
| English 101 | 3 | English 102 | 3 |
| Speech 101 | 2 | Speech 102 | 2 |
| Math. 110 | 3 | Language* | 3 |
| Language* | 3 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| Phys. Ed. 113 or Mil. Sci. | 1-2 | Political Science 201 | 3 |
| Bus. Adm. 103† | 2 | Psychology 201 | 3 |
| Orientation 100 | 0 | | |
| Recommended Electives: | | | |
| Journalism 101, or | | | 15-16 |
| Political Science 101 | 2 | | |
| | 16-17 | | |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------|------|---------------------|-------|
| Bus. Adm. 215 | 3 | Bus. Adm. 216 | 3 |
| Economics 241 | 3 | Economics 242 | 3 |
| English 300 | 3 | Language* | 3 |
| Language* | 3 | Science† | 3-4 |
| Science† | 4 | English 301 | 3 |
| | 16 | | 15-16 |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------|------|----------------------|------|
| Art 202 | 2 | Art 312 | 2 |
| Speech 207 | 3 | Journalism 382 | 3 |
| Art 214 | 3 | Speech 260 | 3 |
| Bus. Adm. 340 | 3 | Bus. Adm. 341 | 3 |
| Bus. Adm. 307 | 3 | Speech 360 | 2 |
| Bus. Adm. 231 | 2 | Bus. Adm. 308 | 3 |
| | 16 | | 16 |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|----------------------|------|----------------------|------|
| Journalism 335 | 3 | Journalism 402 | 3 |
| Journalism 360 | 2 | Psychology 332 | 2 |
| Bus. Adm. 342 | 2 | Bus. Adm. 442 | 3 |
| Bus. Adm. 318 | 3 | Electives** | 9 |
| Speech 431 | 3 | | |
| Bus. Adm. 320 | 3 | | 17 |
| | 16 | | |

*Twelve hours of one foreign language are required unless the student presents two units of one foreign language from high school.

†Not open to students who have had one year of typewriting in high school or the equivalent.

‡The science requirement may be met by taking one of the following options in Arts and Science laboratory courses: physics, 8 hours; chemistry, 8 hours; botany, 4 hours, and zoology, 4 hours; or geology, 7 hours.

**To include 2-3 hrs. in psychology, sociology or philosophy.

Banking and Finance Curriculum**THIRD YEAR**

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------------|------|-----------------------------------|------|
| Business Administration 307 | 3 | Business Administration 308 | 3 |
| Business Administration 311 | 3 | Business Administration 312 | 3 |
| Business Administration 320 | 3 | Business Administration 318 | 3 |
| Economics 310 | 3 | Political Science 202 | 3 |
| Geography 203 | 3 | Economics 342 | 3 |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------------|------|-----------------------------------|------|
| Business Administration 323 | 3 | Business Administration 324 | 3 |
| Business Administration 340 | 3 | Business Administration 350 | 3 |
| Business Administration 434 | 3 | Economics 320 | 3 |
| | | Political Science 333 | 3 |

Electives must include courses in history, psychology, sociology, or philosophy.

Business Management Curriculum**THIRD YEAR**

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------------|------|-----------------------------------|------|
| Business Administration 307 | 3 | Business Administration 308 | 3 |
| Business Administration 311 | 3 | Business Administration 312 | 3 |
| Business Administration 320 | 3 | Business Administration 318 | 3 |
| Economics 310 | 3 | Business Administration 340 | 3 |
| Geography 203 | 3 | Economics 346 | 3 |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------------|------|-----------------------------------|------|
| Business Administration 323 | 3 | Business Administration 324 | 3 |
| Business Administration 331 | 3 | Business Administration 420 | 3 |
| Business Administration 341 | 3 | Business Administration 434 | 3 |
| Business Administration 350 | 3 | Business Administration 333 | 3 |
| Psychology 418 | 3 | Business Administration 424 | 3 |

Electives must include courses in history, psychology, sociology, or philosophy.

Marketing-Retailing Curriculum**THIRD YEAR**

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------------|------|-----------------------------------|------|
| Business Administration 307 | 3 | Business Administration 308 | 3 |
| Business Administration 340 | 3 | Business Administration 341 | 3 |
| Business Administration 318 | 3 | Business Administration 343 | 3 |
| Business Administration 320 | 3 | Business Administration 331 | 3 |
| Business Administration 345 | 3 | Business Administration 346 | 3 |
| Geography 203 | 3 | Business Administration 231 | 2 |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------------|------|-----------------------------------|------|
| Business Administration 327 | 3 | Business Administration 424 | 3 |
| Business Administration 440 | 3 | Business Administration 350 | 3 |
| Business Administration 412 | 3 | Business Administration 441 | 3 |
| Business Administration 422 | 3 | Business Administration 442 | 3 |
| Psychology 418 | 3 | | |

Electives must include courses in history, psychology, sociology, or philosophy.

Secretarial Curriculum

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------------|------|-----------------------------------|------|
| Business Administration 215 | 3 | Business Administration 216 | 3 |
| Business Administration 301 | 3 | Business Administration 302 | 3 |
| Business Administration 304 | 2 | Business Administration 305 | 3 |
| Business Administration 313 | 2 | Business Administration 318 | 3 |
| Geography 203 | 3 | | |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------------|------|-----------------------------------|------|
| Business Administration 307 | 3 | Business Administration 308 | 3 |
| Business Administration 404 | 3 | Business Administration 405 | 3 |
| Business Administration 421 | 3 | | |
| Psychology 418 | 3 | | |

Electives must include courses in history, psychology, sociology, or philosophy.

CHEMISTRY

The purposes of the Department are:

1. To educate students in the field of Chemistry so as to meet the qualifications of professional chemists, and to have the proper background for further education on the graduate level.

2. To provide preparatory work for students who wish to enter professional schools of medicine, dentistry, pharmacy, medical technology, veterinary medicine, nursing, dietetics, engineering, etc.

3. To offer instruction to students who seek a well rounded education.

The Curriculums:

B.S. DEGREE, Chemistry Major: The student must meet requirements for the B.S. degree and earn 30 semester hours credits in chemistry courses.

B.S. IN CHEMISTRY DEGREE: This curriculum meets the minimum standards of the American Chemical Society (ACS). Successful completion leads to certification for ACS membership after two years of experience in the field of chemistry. The student must meet the general requirements for the B.S. degree, have credit for mathematics through integral calculus, 12 or more hours of physics, two years of a foreign language (preferably German, French, or Russian) and chemistry courses through Chemistry 358 (Physical), 447 (The Nature of Chemical Bonding), 448 (Advanced Inor-

ganic Chemistry), and 456 (Instrumental Analysis), plus at least six hours credit in chemistry electives of advanced nature (Chemistry 305, 410, 462, 463, 466, 482) three hours to be chosen from Chemistry 410, 463, 466. The student must also meet distribution requirements in humanities and social sciences as outlined in a suggested course selection listed below.

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 |
| Phys. Ed. 113 or Mil. Science | 1-2 | Phys. Ed. 113 or Mil. Science | 1-2 |
| German 101 | 3 | German 102 | 3 |
| <hr/> | | <hr/> | |
| 16-17 | | 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 |
| German 223 | 3 | German 224 | 3 |
| Physics 201-202 | 4 | Physics 203-204 | 4 |
| <hr/> | | <hr/> | |
| 16 | | 16 | |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------------|------|-----------------------------|------|
| Chemistry 357 (Math 221) | 5 | Chemistry 358 | 5 |
| Chemistry 331 | CR | Chemistry 332 | CR |
| Social Science | | Social Science | |
| (e. g. History 311) | 3 | (e. g. History 312) | 3 |
| Social Science | | English 300 or 301 | 3 |
| (e. g. Psychology 318) | 2 | Social Science | |
| Physics elective | 5 | (e. g. Economics 241) | 3 |
| Chemistry elective | 1 | Chemical elective | 1-4 |
| <hr/> | | <hr/> | |
| 16 | | 15-18 | |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|------------------------------|------|---------------------------|------|
| Chemistry 345 | 4 | Chemistry 448 | 2 |
| Chemistry 447 | 2 | Chemistry 456 | 3 |
| Chemistry 431 | 0 | Chemistry electives | 3 |
| Chemistry electives | 6 | Chemistry 432 | 0 |
| Social Science | | Philosophy 304 | 3 |
| (e. g. Philosophy 303) | 3 | Electives (300-499) | 5 |
| Speech 305 | 2 | <hr/> | |
| <hr/> | | 16 | |
| 17 | | | |

*Minimum 128 hrs.

CLASSICAL LANGUAGES

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

In the case of students with previous Latin training, prerequisites may be affected by the results of placement tests.

ECONOMICS

Economics explains how wealth and income are produced, distributed and consumed. It has been described as "the study of mankind in the ordinary business of life." Prominent subjects of inquiry in economics are depression and inflation, economic growth, the farm problem, international trade, collective bargaining, and the regulation of business.

A major in economics is appropriate for students who want to prepare for various positions in business, banking, government, research and certain other fields, and for students who plan to enter law school. Minor study in economics (12 hours) will provide students with knowledge of the economy of the United States, and with information concerning other types of economic systems.

Majors may fulfill the requirements for either the A.B. or B.S. degree, including 26 hours in economics chosen with the advice of the department chairman.

ENGLISH

English 101 and 102 are required of all freshmen and are prerequisite 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, 11 hrs. Total, 32 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 Bachelor of Science 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 one hundred twenty-eight (128) when added to those already completed at Marshall.

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-------------------------------|-------------|------------------------------|-------------|
| English 101 | 3 | English 102 | 3 |
| Speech 101 | 2 | Speech 102 | 2 |
| Mathematics 120 or 180* | 3-5 | Mathematics 122 or 181 | 3-5 |
| Chemistry 101 | 4 | Chemistry 102 | 4 |
| Botany 203 | 4 | Zoology 211 | 4 |
| | <hr/> 16-18 | | <hr/> 16-18 |

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 304 | 4 |
| Chemistry 217 | 5 | Foreign Language** | 3 |
| Foreign Language** | 3 | Phys. Ed. 114 | 1 |
| Phys. Ed. 113 | 1 | Social Science*** | 8-9 |
| Social Science*** | 3 | | <hr/> 16-17 |
| | <hr/> 16 | | |

FRENCH

Requirements for a major in French will vary according to the amount of credit earned in high school and the results of the French placement tests. Each student desiring to major in French should consult the chairman in the French Department for detailed requirements. A minimum of thirty (30) hours is required for a major.

*Sufficient mathematics to include calculus is recommended.

**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, 406, 407, 408. | |
| Required in this group | 3 hrs. |
| Geography 429, 430. | |
| Required in this group | 6 hrs. |
| Geography 302, 315, 401, 403, 409, 412, 413, 415. | |
| Total required | 27 hrs. |

GEOLOGY

Geology acquaints the student with the nature of the earth, the physical forces which operate upon it, 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; Botany 203; English 408; Geography 320; History 312 or 313; Zoology 211; 8 hours of chemistry.

GERMAN

Requirements for a major in German: 30 hrs., including 101, 102, 203, 204, 309, 310, 317, 318, 301, 302 or their equivalent.

NOTE: Prerequisites may be affected by results of placement tests.

HISTORY

Requirement of history major: Thirty-two semester hours, including History 221-222, and History 311-312-313.

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 |
| | 14 | Home Economics 210 | 3 |
| | | | 17 |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------------|------|----------------------|------|
| English 300 | 3 | Language | 3 |
| Language | 3 | Zoology 211 | 4 |
| Speech 101 | 2 | Sociology 200 | 3 |
| Economics 241 | 3 | Psychology 201 | 3 |
| Business Administration 215 | 3 | Speech 102 | 2 |
| Electives*** | 3 | | 15 |
| | 17 | | |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--|------|--------------------------|------|
| English 301 | 3 | Chemistry 218 | 5 |
| Chemistry 317 | 5 | Zoology 315 | 4 |
| Psychology, Sociology, Philosophy* | 3 | History 313 | 3 |
| History 312 or 321 | 3 | Home Economics 303 | 3 |
| Electives*** | 3 | Electives*** | 2 |
| | 17 | | 17 |

FOURTH YEAR

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

*Suggested courses: Psychology 302, 311, 340; Philosophy 201, 303.

**Botany 302 satisfies degree requirement of Botany 203.

***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 6 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:
Political Science 101, 201, 405, and 406.
History 313, 322, 402, and 418.
Geography 405.
- c. The student must develop a sequence of courses consisting of a minimum of 6 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, public relations and school publications.

The department also offers a limited number of graduate courses.

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 or 406.

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.

A minor in Journalism for prospective teachers is offered under Teachers College.

Any student enrolled in journalism during the regular term must pay a \$3.00 laboratory fee regardless of the number of courses. A laboratory fee of \$8.00 is required of students in Journalism 360, News Photography.

Curriculum in Advertising

Students wishing to prepare themselves for a career in Advertising may pursue a curriculum leading to the B.S. degree. The curriculum varies to meet the demands of students wishing to pursue different advertising careers. The greater concentration of course work may be chosen from the departments of Business Administration, Journalism, or Speech. The detailed curricula will be found on pages 119, 128 and 133. Whichever curriculum is chosen must be followed in its entirety and will lead to the Bachelor of Science degree.

Curriculum in Advertising

In Journalism Sequence

B.S. DEGREE

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------------------|------|---------------------------------|------|
| English 101 | 3 | English 102 | 3 |
| Speech 101 | 2 | Speech 102 | 2 |
| Language* | 3 | Language* | 3 |
| Science (A. & S. Course) | 4 | Science (A. & S. Course) | 4 |
| Journalism 101 | 2 | Mathematics 110 | 3 |
| Phys. Ed. 113 or Mil. Sci. | 1-2 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| <hr/> | | <hr/> | |
| 15-16 | | 16-17 | |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------|------|-----------------------------------|------|
| English 300 | 3 | English 301 | 3 |
| Language* | 3 | Language* | 3 |
| Speech 260 | 3 | Business Administration 103** ... | 2 |
| Political Science 201 | 3 | Business Administration 340 | 3 |
| Journalism 201 | 3 | Journalism 202 | 3 |
| Electives | 2-3 | Electives† | 3 |
| <hr/> | | <hr/> | |
| 17-18 | | 17 | |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------------|------|----------------------|------|
| Psychology 201 | 3 | Sociology | 3 |
| Economics 241 | 3 | Speech 360 | 2 |
| Business Administration 341 | 3 | Psychology 332 | 2 |
| Journalism 301 | 3 | Journalism 302 | 3 |
| Electives | 4 | Economics 242 | 3 |
| <hr/> | | Electives | 3 |
| 16 | | <hr/> | |
| | | 16 | |

*Twelve hours of foreign language are required unless the student presents two units from high school.

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

†Art 202 is suggested for those with special art interests.

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------------------|----------|---------------------------------|-------------|
| Journalism 405 | 2 | Journalism 402 | 3 |
| Journalism 360 | 2 | Journalism 382 | 3 |
| Journalism 308 and/or 304 | 2 | Journalism 309 and/or 305 | 2 |
| Electives | 10 | Electives | 6-9 |
| | <hr/> 16 | | <hr/> 14-17 |

ADVERTISING - JOURNALISM

Students interested in journalism who wish to prepare themselves for work in advertising should follow the curriculum outlined on page 128.

RADIO - TELEVISION JOURNALISM

In conjunction with the departments of Speech and Business Administration, majors in journalism (students who have completed all the requirements for Certificate in Journalism) may take the following 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:

Business Administration 231, 341, Journalism 350, 351, 381, Speech 260, 261, 360, 431.

MATHEMATICS

Requirements for the Mathematics Major: 15 hours beyond the Integral Calculus.

Placement Examination—Satisfactory attainment in a placement examination is a prerequisite for enrollment in Mathematics 120 or Mathematics 180. Students desiring to start college mathematics with Mathematics 123 should be prepared to pass a placement examination on the topics listed under Mathematics 120.

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 101 | 2 | Speech 102 | 2 |
| Foreign Language | 3 | Foreign language | 3 |
| Physical Education or Mil. Sci. | 1-2 | Physical Education or Mil. Sci. | 1 |
| Music 115 | 4 | Music 116 | 4 |
| Music, applied (100 level) | 1 | Music, applied (100 level) | 1 |
| Music, ensemble (100-200 level) . . . | 1 | Music ensemble (100-200 level) . . . | 1 |
| Orientation 100 | 0 | Music 175 | 2 |
| <hr/> | | <hr/> | |
| 15-16 | | 17 | |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--|------|--|------|
| Foreign language | 3 | Foreign language | 3 |
| English 300 | 3 | English 301 | 3 |
| History, Economics or Political Science | 3 | Philosophy, Psychology or Sociology | 2-4 |
| 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/> | | 14-16 | |
| 18 | | | |

THIRD YEAR

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

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/> | | 16 | |
| 17-18 | | | |

*If Geology is chosen.

- Piano Proficiency:** All students entering this curriculum will be required to pass a proficiency examination in piano which will include 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 will be required to take piano without credit until the examination can be passed.
- Applied Music:** In this curriculum students will be 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.

PHYSICS

The department encourages students to major in its field and offers adequate work to prepare them 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 twenty hours beyond Physics 203, 204, and Mathematics 435, and satisfy all of the requirements for the B.S. degree.

POLITICAL SCIENCE

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

A major in political science must fulfill the general and specific requirements for the A.B. degree and 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 Administration 215 and 216 (for pre-law students), 415; Philosophy; Psychology; Sociology; Speech 205; and English 408.

PSYCHOLOGY

Two major sequences are recognized:

NONPROFESSIONAL MAJOR requires minimum of twenty-six 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 is 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

Students majoring in sociology must fulfill these requirements:

1. Complete a total of thirty semester hours in sociology including Sociology 344 and 345. Mathematics 120 is strongly recommended as a prerequisite for Sociology 345.
2. Pass a written comprehensive examination in the area of their courses not later than April of their senior year.
3. Sociology 200—Introductory Sociology—is a prerequisite for all other courses in this department. The only exception—Sociology 231 and 232.

Requirements for a minor in sociology: Complete 12 semester hours in sociology including Sociology 344.

Requirements for a minor in anthropology: Complete 12 semester hours of anthropology including Anthropology 301 and 343.

Students planning to do graduate work at Marshall in sociology or anthropology must take the Ohio State Psychological Examination before enrolling for graduate work. If graduate work is to be done at another college or university, the Graduate Record Examination to be taken during the last semester of the senior year, is strongly recommended.

SPANISH

The Department of Spanish prepares students to speak, read, and write Spanish with reasonable facility, to become acquainted with representative Hispanic literary works, and to understand Hispanic culture and its contributions to Western civilization.

Requirements for the Spanish major:

A major consists of 30 semester hours. *Nine* hours must be from courses numbered 310 through 315 and *must include* 314. Also, nine hours must be from courses numbered 320 and above including 406 and either 410 or 420.

In the case of students entering for the first time, prerequisites may be affected by the results of required placement tests.

SPEECH

The Department of Speech provides courses and laboratory work in public address, radio and television, speech correction 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 101, 102, 205, 210, 240, 260, 306, 312, 313, 320, 439, and one of the following: 403, 418, 431.

Special curriculums in advertising of speech correction and audiology are available.

Curriculum in Advertising

B.S. DEGREE

Concentration in Speech**FIRST YEAR**

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------------------|------|---------------------------------|-------|
| English 101 | 3 | English 102 | 3 |
| Speech 101 | 2 | Speech 102 | 2 |
| Language* | 3 | Language* | 3 |
| Science (A. & S. Courses) | 4 | Science (A. & S. Courses) | 4 |
| Journalism 101 | 2 | Math. 110, 120 or 223 | 3 |
| Phys. Ed. 113 or Mil. Sci. | 1-2 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| Orientation 100 | Cr. | | |
| | | | 16-17 |

15-16

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------------|------|-----------------------------------|------|
| English 300 | 3 | English 301 | 3 |
| Language* | 3 | Language* | 3 |
| Speech 260 | 3 | Art 214 | 3 |
| Art 202 | 2 | Business Administration 103** ... | 2 |
| Political Science 201 | 3 | Business Administration 231 | 2 |
| Speech 240 | 3 | Business Administration 340 | 3 |
| | 17 | | 16 |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|----------------------------------|------|---------------------------------|------|
| Economics 241 | 3 | Economics 242 | 3 |
| Business Administration 341 | 3 | Psychology 332 | 2 |
| Psychology 201 | 3 | Journalism 360 | 2 |
| Sociology 200 | 3 | Speech 331 | 3 |
| Speech 320 | 3 | Speech 360 | 2 |
| Speech 301 | 1 | Electives (300-400 level) | 4 |
| | 16 | | 16 |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|----------------------------------|------|----------------------------------|-------|
| Business Administration 318 | 3 | Business Administration 442 | 3 |
| Business Administration 342 | 2 | Journalism 382 | 3 |
| Journalism 405 | 2 | Journalism 402 | 3 |
| Speech 306 or Speech 207 | 3 | Speech 408 | 3 |
| Speech 431 | 3 | Electives (300-400 level) | 4-6 |
| Speech 332 | 2 | | |
| | | | 16-18 |

15

*Twelve hours of one foreign language are required unless the student presents two units from high school.

**Not open to students who have had one year of typewriting in high school or the equivalent.

CURRICULUM IN SPEECH CORRECTION

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------------------|------|---------------------------------|------|
| English 101 | 3 | English 102 | 3 |
| Speech 101 | 2 | Speech 102 | 2 |
| Foreign Language | 3 | Foreign Language | 3 |
| Math 120 | 3 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| Phys. Ed. 113 or Mil. Sci. | 1-2 | Psychology 204 | 3 |
| Psychology 201 | 3 | Elective | 4 |
| <hr/> | | <hr/> | |
| 15-16 | | 16-17 | |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|------------------------|------|------------------------|------|
| Foreign Language | 3 | Foreign Language | 3 |
| Speech 240 | 3 | Social Science | 3 |
| Botany 203 | 4 | Zoology 211 | 4 |
| Psychology 311 | 3 | Speech 439 | 3 |
| Social Science* | 3 | Speech 418 | 3 |
| <hr/> | | <hr/> | |
| 16 | | 16 | |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-----------------------|------|-----------------------|------|
| English 300 | 3 | English 301 | 3 |
| Psychology 317 | 3 | Speech 422 | 3 |
| Speech 421 | 2 | Speech 420 | 3 |
| Speech 460 | 3 | Speech 462 | 3 |
| Speech 461 | 2 | Social Science* | 3 |
| Social Science* | 3 | <hr/> | |
| <hr/> | | 15 | |
| 16 | | | |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|----------------------|------|-----------------|-------|
| Psychology 308 | 3 | Science | 3-4 |
| Psychology 406 | 3 | Electives | 12-13 |
| Science | 4 | <hr/> | |
| Speech 424 | 3 | 16 | |
| Elective | 3 | <hr/> | |
| <hr/> | | 16 | |

*Social Science to be chosen to meet specific degree requirements.

ZOOLOGY

The courses in zoology are intended to meet the needs of students who desire to obtain 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 26 semester hours of credit within the department. In addition to the general and specific requirements of the degree, the curriculum of zoology majors must include Zoology 211, 212, and 301 or 302. In addition to these courses 14 additional hours of zoology are to be elected, as well as Botany 203 and 8 hours of General Chemistry. The following courses are recommended as electives for zoology majors: Botany 304 and 316, Geology 418, Philosophy 304, Mathematics 310, 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 will be 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. Any entrance deficiency in mathematics must be made up in the freshman year without university credit.

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------------|------|--------------------------------|------|
| Chemistry 101 | 4 | Chemistry 102 | 4 |
| English 101 | 3 | English 102 | 3 |
| Zoology 211 | 4 | Zoology 212 | 4 |
| Speech 101 or Mil. Sci.* | 2 | Speech 102 or Mil. Sci.* | 2 |
| Mathematics 120 or 180 | 3-5 | Mathematics 122 or 180 | 3-5 |
| Orientation | 0 | Premedical conference | 0 |
| <hr/> | | <hr/> | |
| 16-18 | | 16-18 | |

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 |
| Phys. Ed. 113 or Mil. Sci. | 1-2 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| Speech 101† | 2 | Speech 102† | 2 |
| <hr/> | | <hr/> | |
| 18-19 | | 18-19 | |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|------------------------|------|------------------------|------|
| Chemistry 345 | 5 | Chemistry 307 | 3 |
| Zoology 301§ | 4 | Zoology 302§ | 4 |
| Foreign language | 3 | Foreign language | 3 |
| Psychology 201 | 3 | Electives | 6-8 |
| Electives | 3 | <hr/> | |
| <hr/> | | 16-18 | |
| 18 | | | |

FOURTH YEAR

The senior year must include those courses needed to meet degree requirements and department major requirements. (See, however, Combined College and Professional Degrees on page 135.)

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.

*Speech may be postponed.

†Unless taken in first year.

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

The 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 six semester hours in each of the following: English, biology, physics, inorganic chemistry, three semester hours of organic chemistry, and electives to make a total of sixty 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 or 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 Engineering Science, Bachelor of Science in Medical Technology, Associate in Science in Nursing Education. 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 (see page 42).

(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.)

(3) Seniors who find it necessary to take a required course in the 100 series must make a grade of B (3.0) or higher to receive full credit toward graduation, otherwise half credit will be allowed. (Not applicable to the Associate in Science degree.)

Specific Requirements for the B.E.S., B.S. in Medical Technology, and the A.S. in Nursing Education

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

ENGINEERING

The Engineering Department offers a four-year program leading to the degree, Bachelor of Engineering Science.

A student who intends to fulfill the degree requirements for the Bachelor of Engineering Science follows a common course of study for the first three years. At the end of the junior year the student may enter a field of concentration in Civil Engineering, Machine Design, Business Administration,

Physics, Chemistry, Geology, or Mathematics; and will elect courses having a direct bearing on these subjects. The choice of electives is subject to the approval of the engineering adviser. Technical electives will be selected in accordance with a definite program to develop an area of concentration. Nontechnical electives will be chosen from the divisions of humanities and social sciences. See pages 109, 110 and 111.

The curriculum provides that the engineering student will take about one-fifth of his work in humanistic and social science courses; about one-fourth in mathematics, physics and chemistry; about one-fourth basic engineering science including electricity, mechanics and materials; and about one-fourth in engineering analysis and design. Certain substitutions may be made in this curriculum with the approval of the Chairman of the Department of Engineering.

The purpose of the curriculum is to provide a foundation of scientific and basic engineering knowledge, to train in the engineering method of attacking problems, and at the same time to give the student a well rounded knowledge of the various phases of the engineering profession. The primary objectives are: (1) to provide a basic training in fundamentals common to the several branches of engineering, in preparation for industrial employment in positions where intense specialization is neither required nor desirable; (2) to permit advanced studies along lines of individual aptitude or interest.

Classification of Engineering Students

Students who have completed 106 hours of college work are classified as *seniors*.

Students who have completed 68 hours and less than 106 hours of college work are classified as *juniors*.

Students who have completed 30 hours and less than 68 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 Huntington Engineers' Club 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 American Institute of Electrical Engineers annually awards a prize and certificate of award to the student whom they judge to be outstanding in the senior class.

General Engineering Curriculum

FOR THE DEGREE OF BACHELOR OF ENGINEERING SCIENCE

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 208 | 2 |
| General Engineering 110 | 2 | General Engineering 220 | 1 |
| Mathematics 180 | 5 | Industrial Engineering 200 or 210 | 2 |
| Orientation 100 | 0 | Mathematics 181 | 5 |
| Phys. Ed. 113 or Mil. Sci. | 1-2 | Phys. Ed. 114 or Mil. Sci. | 1-2 |
| Speech 101 | 2 | | |
| | <u>17-18</u> | | <u>18-19</u> |

SUMMER SESSION

Civil Engineering 320 5

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|---------------------------------|-----------|---------------------------------|-----------|
| Chemistry 227 or 228 | 3 | Chemistry 227 or 228 | 3 |
| Economics 300 | 3 | Economics 346 | 3 |
| Engineering Mechanics 306 | 3 | Engineering Mechanics 307 | 3 |
| Mathematics 220 | 4 | Mathematics 221 | 4 |
| Physics 201 | 4 | Physics 203 | 4 |
| Physics 202 | 1 | Physics 204 | 1 |
| | <u>18</u> | | <u>18</u> |

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|----------------------------------|-----------|----------------------------------|-----------|
| Civil Engineering 402 | 2 | Electrical Engineering 341 | 3 |
| Electrical Engineering 340 | 3 | Engineering Mechanics 350 | 3 |
| Engineering Mechanics 400 | 3 | Engineering Mechanics 401 | 4 |
| General Engineering 318 | Cr. | General Engineering 319 | Cr. |
| Mathematics 435 | 4 | General Engineering 414 | 3 |
| Mechanical Engineering 411 | 3 | Mechanical Engineering 412 | 3 |
| Nontechnical Elective | 3 | Nontechnical Elective | 3 |
| | <u>18</u> | | <u>19</u> |

FOURTH YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|----------------------------------|----------------|----------------------------------|----------------|
| Civil Engineering 404 | 4 | General Engineering 421 | Cr. |
| General Engineering 403 | 3 | Industrial Engineering 322 | 3 |
| General Engineering 420 | Cr. | Nontechnical Elective | 3 |
| Mechanical Engineering 330 | 3 | Technical Electives | min. 9 |
| Nontechnical Elective | 3 | | <u>min. 15</u> |
| Technical Electives | <u>min. 3</u> | | |
| | <u>min. 16</u> | | |

Technical Electives

A minimum of 12 hours must be selected from one of the following areas of concentration. Credits earned in G.E. 480-481 may reduce this number.

| Business Administration | Hrs. | Mathematics | Hrs. |
|-----------------------------|------|----------------------------|------|
| Business Administration 215 | 3 | 300 and 400 series | |
| Business Administration 307 | 3 | Mathematics courses | 12 |
| Business Administration 318 | 3 | | |
| Business Administration 350 | 3 | Chemistry | Hrs. |
| Business Administration 420 | 3 | 300 and 400 series | |
| Industrial Engineering 430 | 3 | Chemistry courses | 12 |
| Civil Engineering | Hrs. | Geology | Hrs. |
| Civil Engineering 351 | 3 | Geology 200 | 4 |
| Civil Engineering 352 | 2 | Geology 313 | 3 |
| Civil Engineering 353 | 3 | Geology 314 | 4 |
| Civil Engineering 405 | 3 | Geology 321 | 3 |
| Civil Engineering 406 | 4 | Geology 422 | 3 |
| Civil Engineering 413 | 3 | | |
| Civil Engineering 451 | 3 | Physics | Hrs. |
| Geology 200 | 4 | Physics 308 | 3 |
| Machine Design | Hrs. | Physics 309 | 2 |
| Mechanical Engineering 329 | 3 | Physics 314 | 3 |
| Mechanical Engineering 410 | 3 | Physics 315 | 2 |
| Mechanical Engineering 450 | 3 | Physics 401 | 3 |
| Industrial Engineering 430 | 3 | Physics 402 | 3 |
| Physics 314 | 3 | Physics 403 | 2 |
| Physics 401 | 3 | Electrical Engineering 440 | 3 |
| | | Electrical Engineering 441 | 3 |

A maximum credit of 6 hours will be allowed for Military Science as a substitute for nontechnical electives. An additional 2 hours credit will be allowed for Military Science in lieu of Physical Education 113 and 114.

One hundred and forty-four hours are required for the Bachelor of Engineering Science Degree. Remedial courses in mathematics will not be counted toward the degree (Mathematics 52, 120, 121).

MEDICAL TECHNOLOGY

B.S. MED. TECH. DEGREE

The curriculum in Medical Technology leads to the degree of Bachelor of Science in Medical Technology. 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 non-affiliated 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 one entire calendar of twelve months (winter, spring and two summer semesters) beginning in September and ending the following year in September.

Credits Required

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:

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

BIOLOGICAL SCIENCE:

16 semester hours. One year in general zoology. 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:

30 semester hours. Electives, as for any professional career, are chosen to include broad education in English, Social Sciences, Arts and Humanities. Typing also will be 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 and they will be 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.

CURRICULUM FOR MEDICAL TECHNOLOGY

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|------------------------------|----------|------------------------------|----------|
| Chemistry 101* | 4 | Chemistry 102 | 4 |
| Mathematics 120* | 3 | Mathematics 122 | 3 |
| Zoology 211 | 4 | Zoology 212 | 4 |
| Physical Education 113 | 1 | Physical Education 114 | 1 |
| English 101 | 3 | English 102 | 3 |
| | <hr/> 15 | | <hr/> 15 |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------|----------|------------------------|----------|
| Chemistry 345 | 4 | Foreign Language | 3 |
| Foreign Language | 3 | Physics 203-204 | 4 |
| Physics 201-202 | 4 | Speech 101 | 2 |
| English 220 or 230 | 3 | Electives | 7 |
| Electives | 2 | | <hr/> 16 |
| | <hr/> 16 | | |

*Must be taken concurrently.

THIRD YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|------------------------|-------|------------------------|-------|
| Chemistry 217 | 5 | Chemistry 218 | 5 |
| Foreign Language | 3 | Zoology 300 | 4 |
| Electives | 6 | Foreign Language | 3 |
| Botany 302 | 4 | Electives | 4 |
| | <hr/> | | <hr/> |
| | 18 | | 16 |

SUGGESTED ELECTIVES:

| | |
|---------------------------------------|--------|
| Business Administration 103-104 | 4 hrs. |
| Psychology 318 | 2 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/> |
| | <hr/> | | 12 |
| | 12 | | |

SUMMER

| First Term | Hrs. | Second Term | Hrs. |
|------------------------------|-------|------------------------------|-------|
| Medical Technology 407 | 2 | Medical Technology 406 | 1 |
| Medical Technology 409 | 2 | Medical Technology 408 | 2 |
| | <hr/> | Medical Technology 410 | 1 |
| | 4 | | <hr/> |
| | | | 4 |

One hundred and twenty-eight semester hours are required for the Bachelor of Science in Medical Technology.

NURSING EDUCATION

The Department of Nursing Education offers a University-centered program in basic nursing leading to the Associate in Science Degree. The purpose of the program is to assist young men and women with academic and professional potentialities to develop their aptitudes in order that they may give the best possible nursing service to humanity. 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 physical examination, personal interview, prenursing tests, and references. 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 November 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. (In order to be admitted to the West Virginia state licensing examinations a graduate must be 20 years of age or older.) Applicants who are married or who wish to marry during the course of the program are acceptable if all other admission requirements are met.

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

CURRICULUM FOR ASSOCIATE IN SCIENCE DEGREE

FIRST YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|--------------------------|-------|----------------------|-------|
| English 101 | 3 | English 102 | 3 |
| Home Economics 205 | 2 | Chemistry 100 | 3 |
| Zoology 225 | 4 | Psychology 201 | 3 |
| Nursing 101 | 6 | Nursing 102 | 6 |
| | <hr/> | | <hr/> |
| | 15 | | 15 |

SUMMER SESSION (10 weeks)

| First Term | Hrs. | Second Term | Hrs. |
|----------------------|-------|-------------------|-------|
| Sociology 200 | 3 | Nursing 202 | 6 |
| Psychology 311 | 3 | | <hr/> |
| | <hr/> | | 6 |
| | 6 | | |

SECOND YEAR

| First Semester | Hrs. | Second Semester | Hrs. |
|-------------------|-------|-------------------|-------|
| Botany 302 | 4 | Nursing 204 | 6 |
| Nursing 211 | 10 | Nursing 210 | 3 |
| Elective | 3 | Nursing 214 | 6 |
| | <hr/> | | <hr/> |
| | 17 | | 15 |

Seventy-four semester hours are required for the Associate in Science in Nursing Education.

MILITARY SCIENCE

U. S. ARMY RESERVE OFFICERS TRAINING CORPS

The Reserve Officers' Training Corps program was established in September of 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 junior 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 either the Basic or Advanced Course is voluntary. However, when either course has been entered upon by the student, completion of two academic years of instruction becomes a prerequisite for graduation unless the student—with the approval of the Dean of the college in which he is enrolled and the Professor of Military Science—is relieved of this obligation by the University under regulations prescribed by the Department of the Army.

Students desiring to enroll must meet the following requirements established by the Department of the Army for enrollment in the Reserve Officers' Training Corps:

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 waiver must be made through the Professor of Military Science.

In addition to the requirements above for Basic students, Advanced students, prior to enrollment 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.
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 proved qualities of leadership.
5. If a member of the Air Force, Navy, or Coast Guard Reserves, resign from such organizations prior to enrollment.

Basic Course

The Basic Course curriculum provides the student with a sound foundation in the principles of the art of warfare as they are exemplified in American Military History; develops his knowledge and understanding of the modern Army's organization and role in National Security; and develops his skill in certain fundamental military subjects including Leadership and Command.

Advanced Course

The Advanced Course curriculum, including the summer training camp experience, develops to the maximum extent possible the leadership and command ability of the student. Concurrent with leadership training, this course furthers the student's knowledge and understanding of army organization and operations and qualifies him for a commission in the United States Army.

Fees and Remuneration

A deposit of twenty-five dollars (\$25.00) is required by the University of all Military Science students in the Basic Course to cover possible loss or damage to uniforms and equipment. This deposit is returnable. Textbooks and other instructional material required by Military Science students are furnished without cost to the students. Uniforms, to be worn as prescribed, will be issued by the Military Department to all Basic Course students. Advanced course students will be provided through the University an allowance by the Department of the Army of approximately one hundred dollars (\$100.00) 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 \$27.00 per month. Students attending summer training camp are paid at the rate of \$78.00 per month. Together, these remunerations amount to approximately \$300.00 each for these two years. All transportation expenses to and from summer camp are borne by the Department of the Army.

Credit

Students in the Basic Course will attend classes two hours per week and will receive two semester hours' credit per semester toward graduation requirements. Students in the Advanced Course will attend classes three hours per week and will receive three semester hours' credit per semester. In addition, all Military Science students normally will 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 Eligibility which is of value in securing selection to Officer Candidate Schools or appointments as noncommissioned officers.

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 Regular Army commissions if otherwise qualified.

Flight Training

In addition to the regular curriculum offered by the Military Science Department, the Army's Flight Training Program is conducted at Marshall. Cadets request this program usually during their senior year, and if selected, are trained by a local company on contract from the government. Completion of this course qualifies a cadet for further Army aviation training.

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 will take at least three (3) 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 will report the title of the academic course selected to the Military Science Department 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 years:

- 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.

Courses of Instruction by Departments

ABBREVIATIONS

| | | | | |
|-----|--------------|------------|-------|---------------------|
| PR | Prerequisite | | LF | Laboratory fee |
| CR | Corequisite | | Eq. | Equivalent |
| Fr. | Freshman | } standing | Perm. | By permission |
| So. | Sophomore | | Cons. | By consent |
| Jr. | Junior | | Inst. | Instructor |
| Sr. | Senior | | Adv. | Adviser |
| Gr. | Graduate | | Chmn. | Department chairman |

—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

Professors Jablonski, Carpenter
 Instructors Cox, Smith

- 101-102. DRAWING. 3-3 hrs. I, II.
 Freehand drawing, principally from plaster casts; study of perspective projection.
103. PRINCIPLES OF DRAWING AND PAINTING, AND THEORY OF DESIGN.
 3 hrs.
113. CREATIVE EXPRESSION IN THE FINE ARTS. 2 hrs. I, II, S.
 Experiments in drawing, painting, and design directed to the needs of students in elementary education. LF: \$3.00.
200. DESIGN. 2 hrs.
 Elementary design projects in clay, wood, metal, and other materials. LF: \$3.00.
202. LETTERING. 2 hrs.
 Study and practice of lettering with pen and brush.
214. INTRODUCTION TO DESIGN. 3 hrs.
 Basic and related problems in design dealing with the plastic elements—line, color, form, space, and texture. LF: \$3.00.
216. COMMERCIAL ART. 3 hrs.
 Projects in advertising layouts, merchandise display, and container design. LF: \$3.00.
 PR: Art 103, Art 202.
- 305-306. DESIGN. 3-3 hrs.
 Advanced projects in clay, wood, metal, and other materials.
 LF: \$3.00 for each course.
 PR: Art 200.
307. SCULPTURE. 3 hrs.
 Practice of clay modeling from the human figure. LF: \$3.00.

312. ART APPRECIATION. 2 hrs. I, II, S.
Significance of art in everyday living. Required of all students in Teachers College.
333. CREATIVE EXPRESSION IN THE APPLIED ARTS. 2 hrs. I, II, S.
Design projects in a variety of materials, with reference to the needs of students in elementary education. LF: \$3.00.
338. ART EDUCATION. 3 hrs.
The theories, philosophy, and methods of art education supplemented by experiences. 2 lec - 2 lab. LF: \$3.00.
350. WATERCOLOR PAINTING. 3 hrs.
The watercolor medium in expressing still life, landscape, and the human figure.
PR: Art 102, Art 103.
360. PAINTING MEDIA. 3 hrs. II.
Projects in egg tempera, fresco, mixed media, and gilding. LF: \$3.00.
PR: Jr.-Sr.
370. GRAPHIC PROCESSES. 3 hrs. II.
Experiments in the media of etching, dry point, lithography, and wood cut as means of pictorial expression. LF: \$3.00.
- 401-402. HISTORY OF ART. 3-3 hrs. I, II, S.
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. TWENTIETH 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 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, S.
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.
475. SEMINAR IN ART EDUCATION. 1 hr. I, II.
Analysis of specific problems in art education arising during the student's practice teaching period.
PR: To be taken concurrently with student teaching.

BIBLE AND RELIGION

COLLEGE OF ARTS AND SCIENCES

(Division of Humanities)

Associate Professor Jennings

206. HISTORY AND LITERATURE OF THE NEW TESTAMENT. 2 hrs. II.
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. I.
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. I.
An analysis of the nature of religious personalities, institutions, literatures, philosophies, experiences, and education.
301. INTRODUCTION TO THE STUDY OF RELIGION: FUNCTION OF RELIGION. 3 hrs. II, S.
A correlation of religion with the different areas of life: natural science, humanities, social science, philosophy, ethics, education.
302. OUTLINES OF CHURCH HISTORY. 3 hrs. I. Alternate Years.
The historical development of Christianity from the first century to the present.
304. THE TEACHINGS OF JESUS. 2 hrs. I.
An analysis of the Gospels and a systematic study of the message of Jesus.
310. THE HEBREW PROPHETS. 2 hrs. II.
The rise of the office of prophet and the contributions of prophecy to religion.
315. PSYCHOLOGY OF RELIGION. 3 hrs. I. Alternate Years.
An examination of the factors in individual and group religious experiences.
323. HISTORY OF RELIGIOUS THOUGHT IN AMERICA. 3 hrs. II. Alternate Years.
The rise and development of religion and of religious thinking in America.
418. DEVELOPMENT OF RELIGIOUS IDEAS. 3 hrs. I, S.
A study of the sources of religious thought of western culture.

BOTANY

COLLEGE OF ARTS AND SCIENCES

(Division of Sciences)

Professors Plymale, Mills

Assistant Professor Chisler

203. GENERAL BOTANY. 4 hrs. I, II, S.
A general study of the plant kingdom with special emphasis on the structure, function, and classification of the seed plant. 2 lec.-4 lab. LF: \$2.00.

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. LF: \$4.00.

PR: Botany 203 (or equivalent) or one year chemistry.

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. LF: \$2.00.

PR: one year of biological science.

304. PLANT PHYSIOLOGY. 4 hrs. II.

Experimental study of growth, nutrition and responses of plants. 2 lec.-4 lab. LF: \$2.00.

PR: Botany 203 or equivalent.

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.

315. 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. LF: \$2.00.

PR: Botany 203 or equivalent.

316. LOCAL PLANTS. 4 hrs. II, S.

Recognition of our native seed plants and ferns. 2 lec.-4 lab. LF: \$2.00.

PR: Botany 203 or equivalent.

318. PLANT PATHOLOGY. 4 hrs. II.

Nature, cause, and control of plant disease. 2 lec-4 lab. LF: \$2.00.

PR: Botany 203 or eq.

319. CELLULAR METABOLISM. 4 hrs. II.

The chemistry of cell functions, including cellular organization, with special emphasis on intermediary metabolism. 2 lec-4 lab. LF: \$2.00.

PR: 2 years biological sciences and 1 semester organic chemistry or consent of instructor.

402. BACTERIOLOGY: SPECIAL TOPICS. 1-3 hrs.

PR: Botany 302. LF: \$4.00.

410. SPECIAL TOPICS. 1-4 hrs. I, II, S.

By permission of Department Chairman.

BUSINESS ADMINISTRATION

COLLEGE OF ARTS AND SCIENCES

(Division of Sciences)

Professor Minick

Associate Professors Dwight, Evans, Miller

Assistant Professors Cole, Harrison

Instructors Chapman, Cyrus, E. Miller, Piltz, Tucker

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 typing in high school.

104. 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 correct words per minute.

201. SHORTHAND. 4 hrs. I, II.

Beginning course. Fundamental principles of Gregg shorthand; simplified functional method. Development of ability to take dictation of new material at a minimum rate of sixty words per minute for three minutes, and to transcribe with ninety-eight per cent accuracy, or better. Development of pretranscription skills.

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

PR or CR: Business Administration 104.

202. SHORTHAND-TRANSCRIPTION. 4 hrs. I, II.

Business letter dictation and transcription on the typewriter. Development of a minimum speed of eighty words per minute for five minutes, with ninety-eight per cent accuracy on new material.

PR: Business Administration 201, or one year of shorthand in high school, and Business Administration 104.

215-216. PRINCIPLES OF ACCOUNTING. 3 hrs. each. I, II.

Introduction to principles and procedures of double entry accounting records and reports.

231. PRINCIPLES OF SELLING. 2 hrs. I, II.

Elements of successful specialty and retail selling; knowledge, personality, preapproach standardized canvass, relationships to management.

301. INTERMEDIATE DICTATION. 3 hrs. I.

Development of speed in taking dictation and speed and accuracy of transcription. Minimum speed of 100 words per minute for five minutes with ninety-eight per cent accuracy, or better, on new material.

PR: Business Administration 202.

302. **ADVANCED DICTATION.** 3 hrs. II.
Development of a minimum dictation speed of 120 words per minute for five minutes. Emphasis on taking dictation and transcription of variety of material of increasing difficulty.
PR: Business Administration 301.
304. **FILING.** 2 hrs. II.
Basic principles of indexing and filing. Practice in operation of common filing systems.
305. **SECRETARIAL OFFICE MACHINES.** 3 hrs. I, II.
Duplicating, voice writing, key-driven calculating, adding-listing, and small desk machines.
PR: Business Administration 104.
306. **ACCOUNTING OFFICE MACHINES.** 3 hrs. I, II.
Calculators, posting, specialized accounting, and adding-listing machines.
PR: Business Administration 215.
- 307-308. **PRINCIPLES OF BUSINESS LAW.** 3 hrs. each. I, II.
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.
- 311-312. **INTERMEDIATE ACCOUNTING.** 3 hrs. each, I, II.
Principles and problems of valuation, analysis, and formal presentation of accounting data.
PR: Business Administration 216.
313. **MATHEMATICS OF BUSINESS AND FINANCE.** 2 hrs. I, II.
Review of arithmetic as a tool of business; simple and compound interest; discount; partial payments; business insurance; finance; annuities; bond and interest valuation.
318. **BUSINESS STATISTICS.** 3 hrs. II.
Survey of methods of analysis and presentation of business and economic data; sampling, measures of central tendency and dispersion; index numbers; time series.
320. **BUSINESS ORGANIZATION AND MANAGEMENT.** 3 hrs. I.
Principles of organization; types of business organization; internal control; records and statistics as related to control; specific management techniques.
- 323-324. **PRINCIPLES OF BUSINESS FINANCE.** 3 hrs. each. I, II.
Principles, instruments, and procedures involved in the procurement and maintenance of financial capital; social aspects of business finance.
PR: Economics 242 and Business Administration 216.
327. **PRINCIPLES OF LIFE INSURANCE.** 3 hrs. I.
The principles, services, and basic legal aspects of life insurance, with emphasis on the life insurance contract.

331. **PROPERTY INSURANCE.** 3 hrs. I.
The principles and legal aspects of fire and marine, inland marine, special and allied fire lines, and automobile physical damage insurance, with emphasis on contracts.
333. **CASUALTY INSURANCE.** 3 hrs. II.
Liability, auto liability, suretyship, theft, credit and title insurance; employer's liability and workmen's compensation.
340. **PRINCIPLES OF MARKETING.** 3 hrs. I.
Institutions, channels of distribution, functions, federal regulation, and economics of marketing.
341. **PRINCIPLES OF ADVERTISING.** 3 hrs. II.
Copy, layout, production, media, copy-research techniques.
342. **MARKETS AND MEDIA.** 2 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.
Principles and mechanics of successful retail merchandising covering merchandise and stock control, buying, marking, pricing, advertising, credits, and personnel management.
- 345-346. **COOPERATIVE STORE SERVICE.** 3 hrs. each. I, II.
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.
PR or CR: Business Administration 340 and 343.
350. **TRANSPORTATION.** 3 hrs. I, II.
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, and traffic expediting services.
404. **SECRETARIAL TRAINING.** 3 hrs. I.
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.
405. **OFFICE PRACTICE.** 3 hrs. II.
Work in cooperating business offices for approximately fifteen hours per week with weekly conferences.
PR: Business Administration 404.
407. **PROBLEMS OF BUSINESS LAW.** 3 hrs. I, S.
Readings and case reports on current legal problems relating to business.
PR: Business Administration 307 and 308 or graduate standing.

411. **COST ACCOUNTING.** 3 hrs. I.
Principles of industrial cost accounting; job order, departmental, and process costs.
PR: Business Administration 311 or permission of instructor.
412. **RETAIL ACCOUNTING.** 3 hrs. I.
Principles and problems relating to sales transactions; purchases; inventory valuation and control; expense classification, distribution, and control; and the preparation and analysis of operating statements for retail establishments.
PR: Business Administration 216.
413. **AUDITING.** 3 hrs. II.
Theory and procedures; legal and social responsibilities of the auditor.
PR: Business Administration 312 or permission of instructor.
414. **ADVANCED ACCOUNTING PROBLEMS.** 3 hrs. S.
Selected problems in advanced accounting principles and procedures.
PR: Business Administration 312 or permission of instructor.
415. **FEDERAL TAXATION.** 3 hrs. I, II.
Problems and procedures of income tax accounting.
PR: Business Administration 312 or permission of instructor.
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.
421. **OFFICE MANAGEMENT.** 3 hrs. II.
Principles and practices, approached from the viewpoint of the office manager, through oral and written problems.
422. **RETAIL MERCHANDISING PROBLEMS.** 3 hrs. I. (Formerly 445 and 446.)
Managerial problems pertaining to sales inventory and purchases; retail method of inventory; sales expense and pricing; mark-up and mark-down planning; stock planning.
424. **PERSONNEL MANAGEMENT.** 3 hrs. II.
Principles and procedures involved in the recruitment, selection, training, placement, and maintenance of an effective working force.
434. **INVESTMENTS.** 3 hrs. II.
The nature, forms, and principles of investment; institutions for facilitating investment.
PR: Business Administration 323-324.
440. **SALES MANAGEMENT.** 3 hrs. I.
Policies and procedures pertaining to product planning and pricing, choice of market, planning sales effort, and the control of sales operations.
PR: Business Administration 231 and 340.

441. **WHOLESALEING.** 3 hrs. II.
Nature and importance of wholesaling; managerial aspects and problems; governmental regulation.
PR: Business Administration 340.
442. **TECHNIQUES OF MARKET RESEARCH.** 3 hrs. II.
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, 330, and 340.
450. **BUSINESS RESEARCH.** 2 hrs.
The student will make a study of a topic related to his field of specialization under the direction of an adviser and submit a written report.
- 495H-496H. **READINGS FOR HONORS IN BUSINESS ADMINISTRATION.**
4 hrs. each. I, II.
Open only to business administration majors of outstanding ability.
Both courses must be taken to receive Honors credit.
Refer to page 47 for rules and general information.

CHEMISTRY

COLLEGE OF ARTS AND SCIENCES

(Division of Sciences)

Professors Wotiz, Bartlett, Rumble, Whelpley
Associate Professors Digman, Hoback
Assistant Professors Chakrabarty, Hanrahan, Moore

Note: Courses marked "" require a \$10.00 laboratory breakage deposit.*

100. **ELEMENTARY CHEMISTRY.** 3 hrs. II.
Open to candidates for the A.S. degree in Nursing. Includes topics from chemical principles, inorganic, organic, and biochemistry.
101. **PRINCIPLES OF CHEMISTRY I.** 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.
LF: \$8.00*.
CR: Enrollment in Math 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. LF: \$8.00*.
PR: Chem. 101 or 104, Math 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. LF: \$8.00*.
PR: One unit of high school algebra.
104. GENERAL CHEMISTRY II. 4 hrs. II.
Continuation of Chem. 103. 3 lec.-3 lab. LF: \$8.00*.
PR: Chem. 103 or 101.
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.-6 lab. LF: \$10.00*.
PR: Chem. 102 or 104.
218. PHYSIOLOGICAL CHEMISTRY. 5 hrs. II.
Open to students in home economics, medical technology, and science majors in Teachers College. 3 lec.-6 lab. LF: \$10.00*.
PR: Chem. 217, 256.
227. INTRODUCTORY ORGANIC CHEMISTRY. 3 hrs. I.
A short study of organic chemistry. Open to students in Applied Science.
PR: Chem. 102 or 104.
255. ORGANIC CHEMISTRY I. 5 hrs. I, S.
A systematic study of organic chemistry. 3 lec.-6 lab. LF: \$10.00*.
PR: Chem. 102.
256. ORGANIC CHEMISTRY II. 5 hrs. II, S.
Continuation of Chem. 255 and qualitative organic analysis. LF: \$10.00*.
PR: Chem. 255.
305. CHEMICAL LITERATURE. 1 hr. I.
PR: Chem. 256 or 217.
307. INTRODUCTORY PHYSICAL CHEMISTRY. 3 hrs. (formerly Chem. 228) II, 3 lec.
PR: Chem. 217, 227 or 256.
- 331-332. CHEMISTRY SEMINAR. Credit. I, II.
A graduation requirement of all juniors seeking the B.S. in Chemistry degree.
345. QUANTITATIVE ANALYSIS. 4 hrs. (formerly Chem. 445) I, S.
A systematic study of classical and modern analytical analysis. 2 lec.-6 lab. LF: \$8.00*.
PR: Chem. 102.
357. PHYSICAL CHEMISTRY I. 5 hrs. I, S.
A systematic study of physical chemistry. 3 lec.-6 lab. LF: \$10.00*.
PR: Chem. 256, 8 hours of physics, Math. 220. CR: Math. 221.

358. PHYSICAL CHEMISTRY II. 5 hrs. II, S.
Continuation of Chem. 357. 3 lec.-6 lab. LF: \$10.00*.
PR: Chem. 357, Math. 221.
- 401-402. RESEARCH FOR UNDERGRADUATES. 1-4 hrs. I, II, S.
Permission of instructor and department chairman. LF: \$5/credit hr*.
PR: Chem. 357.
410. ADVANCED CHEMICAL PREPARATIONS. 3 hrs. II, S.
The syntheses of organic and inorganic compounds which use specialized techniques. 1 lec.-6 lab. LF: \$10.00*.
PR: Chem. 256.
- 431-432. CHEMISTRY SEMINAR. Credit, I, II.
A graduation requirement of all seniors seeking the B.S. in Chemistry degree.
447. THE NATURE OF CHEMICAL BONDING. 2 hrs. I.
A modern viewpoint of structural chemistry with examples from inorganic and organic chemistry. 2 lec.
PR: Chem. 358 CR: Chem. 345.
448. ADVANCED INORGANIC CHEMISTRY. 2 hrs. II.
PR: Chem. 447.
456. INSTRUMENTAL ANALYSIS. 3 hrs. I, II, S.
A study of use and applications of modern analytical instruments and techniques. 2 lec.-3 lab. LF: \$10.00*.
PR: Chem. 345.
462. NUCLEAR CHEMISTRY & PHYSICS. 3 hrs. II.
An introduction to the phenomena of nuclear physics and chemistry. 3 lec.
PR: Math. 221.
463. NUCLEAR CHEMISTRY & PHYSICS LABORATORY. 2 hrs. II.
4 lab. LF: \$10.00*.
CR: Chem. 462.
466. ORGANIC QUALITATIVE ANALYSIS. 3 hrs. I.
The identification of organic compounds with the aid of modern instruments. 1 lec.-6 lab. LF: \$8.00*.
PR: Chem. 256.
482. ADVANCED ORGANIC CHEMISTRY. 2 hrs. II.
PR: Chem. 447.
- 495H-496H. HONORS IN CHEMISTRY. 4 hrs I, II, S.
Open only to chemistry majors of outstanding ability. Both courses must be taken to receive Honors credit. LF: \$5.00/per credit hr.

DEPARTMENT OF CLASSICAL LANGUAGES

COLLEGE OF ARTS AND SCIENCES

(Division of Humanities)

Assistant Professor Hoy

Greek

- 201-202. FIRST YEAR GREEK. 3-3 hrs. I, II.
No credit for 201 without 202.
- 301-302. INTERMEDIATE GREEK. 3-3 hrs. I, II.
Homer's Iliad, Dialogues of Plato, New Testament.
PR: Greek 202 or equivalent.
- 303-304. SELECTIONS FROM GREEK TRAGEDY. 3-3 hrs. I, II.
PR: Greek 304 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 2 units of high school Latin.
306. SELECTIONS FROM HORACE. 3 hrs. I.
PR: Latin 204 or 3 units high school Latin.
307. CICERO'S LETTERS. 3 hrs. II.
PR: Latin 204 or 3 units high school Latin.
309. LIVY'S HISTORY OF ROME. 3 hrs. I.
PR: Latin 204 or 3 units high school Latin.
312. TACITUS: ANNALS, GERMANIA. 3 hrs. I.
327. ADVANCED PROSE COMPOSITION. 3 hrs. I.
401. ROMAN LIFE: PLINY, MARTIAL JUVENAL. 3 hrs. II.
402. VERGIL'S AENEID VII-XII. 3 hrs. II.
403. THE ROMAN STAGE: COMEDIES OF PLAUTUS AND TERENCE. 3 hrs. II.
- 450-451. SPECIAL TOPICS IN LATIN. 1-4 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 Honors credit.

Classical Civilization

Courses given in English. They do not fulfill the foreign language requirement.

Greek

319. MYTHOLOGY. 2 hrs. I.
435. GREEK CIVILIZATION. 3 hrs. I.

Latin

322. LATIN LITERATURE IN TRANSLATION. 2 hrs. II.
436. ROMAN CIVILIZATION. 3 hrs. II.

ECONOMICS

COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professor Minick
Associate Professors Corrie, Land
Assistant Professor Cook

- 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.
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 U. S.; monetary, fiscal, and banking functions of the Federal Reserve System.
PR: Economics 242, 300, or the 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 the equivalent.
320. PUBLIC FINANCE. 3 hrs. II.
Governmental revenue, expenditures, and debt; the use of fiscal policy.
PR: Economics 242, 300, or the 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 the 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 the 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 the 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 the 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 the 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 the 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 the 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 the 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 the 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 the 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 the 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 the 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 the 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 the equivalent.

444. CONTEMPORARY ECONOMIC THEORY. 3 hrs. II.

Economic theories and ideas from Marshall to Keynes.

PR: Economics 242, 300, or the equivalent.

448. AMERICAN ECONOMIC THOUGHT. 3 hrs. II.

Contributions of American scholars to economic doctrines; emphasis on the Institutional and Neo-Classical Schools.

PR: Economics 242, 300, or the 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 to 4 hrs. I, II.

Members of the department may teach, when necessary, any economics subject not listed among the current course offerings.

PR: 9 hrs. of economics, senior standing, and consent of the instructor.

481-482. DIRECTED RESEARCH. 2 to 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: 12 hrs. 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.

Open only to economics majors of outstanding ability. Both courses must be taken in order to receive Honors credit.

Refer to page 47 for rules and general information.

EDUCATION

TEACHERS COLLEGE

Professors Morris, Hampel, Hess, Nuzum, Runyan, Wilburn

Associate Professors Arhelger, Blumberg, Core, Douthat, Felty, Gibbins, Gray,
Irvin, Lichtenstein, Willey, Wright

Assistant Professors Campbell, Cremeans, Davis, Hoffman, Hunter, Jarrett,
D. Mitchell, Queen, Regula, Ritchie, T. Smith

Instructors Benner, Blankenship, Clark, Crowe, Dailey, Engle, Green, Iannello,
Kilgore, Mathews, Rummell, Rutherford, M. Smith, W. Smith, Swann, Zban

117. INTRODUCTION TO TEACHING. 2 hrs. I, II, S.

Provides a general introduction to the profession of teaching with emphasis upon basic concepts essential to success in later courses.

118. HUMAN DEVELOPMENT. 3 hrs. I, II, S.

A basic course in the study of children's emotional, mental, and physical development. Field experience required.

PR: Education 117.

150. TEACHING IN THE ELEMENTARY SCHOOL. 3 hrs. S.

The procedures and techniques to be employed in teaching the basic subjects of the elementary school.

PR: (See "Student Teaching," page 79.)

250. SUPERVISED STUDENT TEACHING (GRADES 1-6). 3 hrs. S.

Teaching daily under supervision in Laboratory Elementary School and affiliated schools.

PR: Education 117 and 118 or equivalent. (See "Student Teaching," page 79.)

310. PRINCIPLES OF HIGH SCHOOL TEACHING. 2 or 4 hrs. S.

Secondary school activities as they relate to best teaching procedures.

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 117 and 118.

350. SUPERVISED STUDENT TEACHING (GRADES 1-6). 2 or 3 hrs. S.

Continuation of Education 250. Required of students completing the First Class Elementary Certificate.

PR: Education 117, 118, and 319 or equivalent. (See "Student Teaching," page 79.)

365. **THE ELEMENTARY SCHOOL.** 3 hrs. S.
Organization and management of the elementary school with emphasis upon provisions for individual differences, unit construction, safety and health of pupils.
PR: Education 117 or 118 or equivalent. Enrollment in Education 350.
367. **THE PRIMARY SCHOOL.** 4 hrs. I.
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.
400. **ELEMENTARY EDUCATION.** 6 hrs. I, II.
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 117, 118 and 319 or equivalent. CR: Education 405.
405. **SUPERVISED STUDENT TEACHING (GRADES 1-6).** 4-8 hrs. I, II.
All-day teaching under supervision in cooperating public schools. Required of all students completing the Professional Elementary Certificate or the Special Nonacademic Certificate in Art, Music, or Physical Education.
PR: Education 117, 118, and 319 or equivalent. CR: Education 400. (See "Student Teaching," page 79.)
409. **KINDERGARTEN-PRIMARY CURRICULUM.** 4 hrs. II.
Educational needs of kindergarten-primary children with reference to the adjustment of learning experiences.
410. **SUPERVISED STUDENT TEACHING.** 8 hrs. I, II.
For students completing the kindergarten-primary curriculum.
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.
417. **STATISTICAL METHODS.** 3 hrs. S.
Elementary statistics to meet the needs of students in economics, education, political science, and sociology.
PR: Consent of instructor. Enrollment in Education 405 or 450.
420. **INTRODUCTION TO EXCEPTIONAL CHILDREN.** 3 hrs. I, 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.

428. **THE JUNIOR HIGH SCHOOL CURRICULUM.** 3 hrs. I, II, S.
Provides for the study of procedures for creating a functional junior high curriculum with emphasis upon the needs of early adolescents.
432. **EDUCATION OF EXCEPTIONAL CHILDREN.** 3 hrs. II, S.
A study of the social, emotional, physical, and learning characteristics of children having one of the several exceptionalities; methods of diagnosis and differentiation; educational organization and teaching techniques employed for their rehabilitation.
PR: Education 420.
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.
440. **STUDENT TEACHING WITH MENTALLY RETARDED CHILDREN.**
3-4 hrs. II, S.
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: Enrollment in Education 450.
443. **TEACHING READING IN ELEMENTARY SCHOOLS.** 3 hrs. I, II, S.
Presenting modern techniques and practices in the teaching of reading.
PR: Enrollment in Education 405.
445. **TEACHING READING IN SECONDARY SCHOOLS.** 3 hrs. I, II, S.
Principles underlying the teaching of reading in junior and senior high schools.
PR: Enrollment in Education 450.
450. **SUPERVISED STUDENT TEACHING IN SECONDARY SCHOOLS.**
3-8 hrs. I, II, S.
All-day teaching under supervision in cooperating public schools.
PR: Education 117, 118, and 319 or equivalent. (See "Student Teaching," page 79.)
452. **TEACHING MENTALLY RETARDED CHILDREN.** 3 hrs. II, S.
A study of the techniques to be employed in assessing mentally retarded children's preacademic skills, academic skills, social adjustment, and recreational aptitudes; an acquaintance with and a mastery of teaching materials to be used in taking the child forward at his own rate; emphasis on techniques in teaching the skill subjects.
PR: Education 420 and 432.
460. **PHILOSOPHY OF EDUCATION.** 3 hrs. I, II, S.
Surveys basic philosophic schools and concepts and their application to educational practice.
PR: Enrollment in Education 405 or 450.

465. AUDIO-VISUAL AIDS IN LEARNING. 3 hrs. I, II, S.
Utilization of audio-visual materials, equipment, and techniques.
LF: \$1.00.
PR: Enrollment in Education 405, 410 or 450.
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. LF: \$3.00.
467. TEACHING SOCIAL STUDIES IN SECONDARY SCHOOLS. 2 or 3 hrs. I, II, S.
Survey of various techniques for teaching the social studies with suggestions for the procurement and use of pertinent materials.
PR: Enrollment in Education 319.
468. TEACHING ART IN SECONDARY SCHOOLS. 2 hrs. I, II.
Survey of materials and methods for teaching art.
PR: Enrollment in Education 319.
469. TEACHING BUSINESS EDUCATION. 2 or 3 hrs. I, II, S.
Survey of materials and methods for teaching business subjects in junior and senior high schools.
PR: Enrollment in Education 319.
470. TEACHING ENGLISH IN SECONDARY SCHOOLS. 2 hrs. I, II.
The curriculum in English with emphasis upon the use of instructional materials and procedures.
PR: Enrollment in Education 319.
471. TEACHING THE LANGUAGES. 2 hrs. I, II.
The curriculum in the languages in the junior and senior high school with emphasis upon materials and methods used in teaching the subjects.
PR: Enrollment in Education 319.
472. TEACHING MATHEMATICS IN SECONDARY SCHOOLS. 2 hrs. I, II.
The program of mathematics in junior and senior high schools with emphasis upon materials and methods to be used in teaching the several subjects.
PR: Enrollment in Education 319.
473. TEACHING PHYSICAL EDUCATION. 2 hrs. I, II.
The program of physical education in elementary, junior, and senior high schools, with emphasis upon materials and methods used in an adequate program.
PR: Enrollment in Education 319.
474. TEACHING THE SCIENCES IN SECONDARY SCHOOLS. 2 hrs. I, II.
The program in the sciences in junior and senior high schools with emphasis upon materials and methods used in teaching the several subjects.
PR: Enrollment in Education 319.

475. SECONDARY EDUCATION. 4 hrs. I, II.

Principles of teaching in the secondary school, curriculum planning, philosophy of education, guidance, audio-visual information, and teaching of reading.

PR: Education 117, 118 and 319 or equivalent. CR: Education 450.

476. TEACHING SPEECH IN SECONDARY SCHOOLS. 2 hrs. I, II.

Study of methods and materials for teaching speech in secondary schools.

PR: Enrollment in Education 319.

482-485. SPECIAL TOPICS. 1-4 hrs. I, II, S.

490. PRINCIPLES AND PRACTICES OF GUIDANCE. 3 hrs. I, II, S.

The objectives, principles, and practices of guidance.

PR: Enrollment in Education 450.

495. CLINICAL PRACTICE IN READING INSTRUCTION. 3 hrs. S.

Diagnosis of difficulties, plans for corrective treatment, and actual work with pupils.

PR: Education 443 or consent of instructor.

ENGINEERING

COLLEGE OF APPLIED SCIENCE

Professor McCaskey

Associate Professors Stinson, Skidmore

Assistant Professors Eaton, Groves

Instructors Mendenhall, Olson

General Engineering

G.E. 100. ENGINEERING ORIENTATION. Credit. I, II.

Required of all engineering freshmen.

G.E. 110. MECHANICAL DRAWING. 2 hrs. I, II.

Orthographic projection, lettering, technical sketching. Two 3-hour laboratories.

PR: Entrance mathematics requirements.

G.E. 208. DESCRIPTIVE GEOMETRY. 2 hrs. I, II.

Theory of orthographic projection. Two 3-hour laboratories.

PR: G.E. 110.

G.E. 220. ENGINEERING PROBLEMS. 1 hr. I, II.

Engineering computations.

PR: Mathematics 180.

G.E. 318. ENGINEERING SEMINAR. Credit. I.

Presentation of reports and technical papers.

PR: E.M. 307.

- G.E. 319. ENGINEERING SEMINAR. Credit. II.
Continuation of 318.
PR: E.M. 307.
- G.E. 403. ENGINEERING REPORT WRITING. 3 hrs. I.
Technical reports, business letters. 3 lec.
PR: Senior standing and consent of instructor.
- G.E. 414. METALLURGY. 3 hrs. II.
PR: E.M. 307.
- G.E. 420. ENGINEERING SOCIETY. Credit. I.
Discussion of Industrial Safety, presentation of reports and technical papers.
- G.E. 421. ENGINEERING SOCIETY. Credit. II.
History of the engineering profession. Presentation of reports and technical papers.
- G.E. 480-481. DIRECTED RESEARCH. 1-4 hrs. I, II.
Original investigations of special topics.
PR: Senior standing.
- INSPECTION TRIP. Visits will be made to engineering projects and industrial plants in the tri-state area during the senior year. Required of all candidates for the B.E.S. degree.

Engineering Mechanics

- E.M. 306. STATICS. 3 hrs. I, II, S.
Static force systems. Three hours lecture.
PR: Mathematics 220, and Physics 201, or concurrently.
- E.M. 307. MECHANICS OF MATERIALS. 3 hrs. I, II.
Strength of materials, shear and moment diagrams, stresses in shafts, beams and columns, combined stresses, deflection. Three hours lecture.
PR: E.M. 306, Physics 201, registration in Mathematics 221.
- E.M. 350. ADVANCED MECHANICS OF MATERIALS. 3 hrs. I, II.
Continuation of E.M. 307. Three hours lecture.
PR: E.M. 307, Mathematics 221.
- E.M. 400. DYNAMICS. 3 hrs. I, II.
Laws of moving bodies, work and energy, relative motion, rotating masses. Three hours lecture.
PR: E.M. 306, Mathematics 221, or concurrently.
- E.M. 401. FLUID MECHANICS. 4 hrs. II.
3 lec.-3 lab.
PR: E.M. 400, Mathematics 221.

Industrial Engineering

- I.E. 200. MACHINE WORK. 2 hrs. I, II.
Use of metal lathe, drill press, shaper, milling machine. LF: \$10.00.
PR: G.E. 110.

I.E. 210. WELDING AND HEAT TREATMENT. 2 hrs. I, II.

Cutting, oxyacetylene and arc welding, tempering and heat treatment. LF: \$10.00.

PR: G.E. 110.

I.E. 322. ENGINEERING ECONOMY. 3 hrs. II.

PR: Junior standing and consent of instructor.

I.E. 430. INDUSTRIAL MANAGEMENT. 3 hrs. II.

Industrial organization, time and motion study, production planning, and elements of quality control. 3 lec.

PR: Junior standing and consent of instructor.

Mechanical Engineering

M.E. 330. MACHINE DESIGN. 3 hrs. I.

2 lec.-3 lab.

PR: E.M. 350 and E.M. 400.

M.E. 410. ADVANCED MACHINE DESIGN. 3 hrs. II.

Continuation of M.E. 330. 2 lec.-3 lab.

PR: M.E. 330 and Mathematics 435.

M.E. 411. THERMODYNAMICS. 3 hrs. I.

PR: Physics 203, 204, E.M. 306, and Mathematics 221.

M.E. 412. THERMODYNAMICS. 3 hrs. II.

PR: M.E. 411.

M.E. 450. MECHANICAL VIBRATIONS. 3 hrs. II.

Vibrations of rotating and reciprocating machines.

PR: M.E. 330 and Mathematics 435.

Civil Engineering

C.E. 320. SURVEYING. 5 hrs. S.

Field work with transit, level, tape, and stadia. Field astronomy, triangulation, office computations and plotting.

PR: Mathematics 180 or Mathematics 122 and G.E. 110.

C.E. 351. SANITARY ENGINEERING. 3 hrs. I.

Water treatment and supply.

PR: Senior standing, and E.M. 401 or concurrently.

C.E. 352. FOUNDATIONS AND SOIL MECHANICS. 2 hrs. II.

1 lec.-3 lab.

PR: E.M. 307.

- C.E. 353. ROUTE SURVEYING. 3 hrs. I.
Simple compound, spiral and vertical curves, earthwork. One hour lecture and two three-hour laboratories.
PR: C.E. 320.
- C.E. 402. MATERIALS OF CONSTRUCTION. 2 hrs. I.
Properties of building materials and materials testing. 1 lec.-3 lab.
PR: E.M. 307.
- C.E. 404. STRUCTURAL ENGINEERING. 4 hrs. I.
Stress analysis and structural design. Steel, timber, concrete.
3 lec.-3 lab.
PR: E.M. 350, or concurrently.
- C.E. 405. REINFORCED CONCRETE DESIGN. 3 hrs. I.
2 lec.-3 lab.
PR: E.M. 307.
- C.E. 406. STRUCTURAL ENGINEERING. 4 hrs. II.
Continuation of C.E. 404. 3 lec.-3 lab.
PR: C.E. 404.
- C.E. 413. HIGHWAY CONSTRUCTION AND DESIGN. 3 hrs. II.
2 lec.-3 lab.
PR: C.E. 353, or concurrently.
- C.E. 451. SANITARY ENGINEERING. 3 hrs. II.
Sewerage and sewage treatment.
PR: Senior standing, and E.M. 401 or concurrently.

Electrical Engineering

- E.E. 340. ELEMENTS OF ELECTRICAL ENGINEERING. 3 hrs. I.
2 lec.-3 lab. LF: \$2.50.
PR: Mathematics 221, or concurrently, and Physics 203 and 204.
- E.E. 341. ELEMENTS OF ELECTRICAL ENGINEERING. 3 hrs. II.
2 lec.-3 lab. LF: \$2.50.
PR: E.E. 340.
- E.E. 440. CIRCUIT ANALYSIS I. 3 hrs. I.
Network equations; steady state solutions; inductive coupling; transformers.
PR: E.E. 341 and Mathematics 435, or concurrently.
- E.E. 441. CIRCUIT ANALYSIS II. 3 hrs. II.
Continuation of E.E. 440. Network theory and analogs and duals.
PR: E.E. 440.

ENGLISH

COLLEGE OF ARTS AND SCIENCES

(Division of Humanities)

Professors Tyson, Baxter, Brown, Mitchell

Assistant Professors Bailey, Bisignano, Houston, Putz, Rollins, Thorn

Instructors Adkins, Byus, Coomer, Glasgow, Habecker, Hungiville, Jenkins,
Karrfalt, Kirby, Milam, Oetgen, Sawaniewski, Virgallito**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 or 103. 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 or 103.

103-104. FIRST YEAR WRITTEN AND SPOKEN ENGLISH. 3-3 hrs. I, II, S.

Fundamentals of English usage, with the same basic content as English 101-102, supplemented by practice in oral communication.

PR for 103: Satisfactory entrance scores in English, or English 100.

PR for 104: English 101 or 103.

203. CHILDREN'S LITERATURE. 3 hrs. I, II, S.

Types of poetry and prose appropriate for elementary and junior high school pupils, with emphasis on methods of presentation.

PR: English 102 or 104.

215. SECOND YEAR WRITTEN AND SPOKEN ENGLISH. 3 hrs. I, II, S.

Advanced course in speaking and writing related to a study of principal literary types. Required of all Teachers College students.

PR: English 102 or 104.

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, Yeats, and Eliot.

PR: English 102 or 104.

301. AMERICAN LITERATURE. 3 hrs. I, II, S.
Study of the works of major authors from the beginnings to the present, including Hawthorne, Poe, Emerson, Thoreau, Whitman, Twain, O'Neill, Faulkner, and Frost.
PR: English 102 or 104.
- 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.
317. ENGLISH NOVEL TO 1900. 3 hrs.
Beginnings and development, including works of Defoe, Richardson, Fielding, Austen, Scott, the Brontes, Dickens, Thackeray, Eliot, Trollope, Meredith, and Hardy.
325. SHAKESPEARE. 3 hrs.
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.
335. LITERATURE OF THE RENAISSANCE AND REFORMATION. 3 hrs.
Nondramatic prose and poetry, including Sidney, Spenser, Lyly, Dekker, Lodge, Nashe, Greene, and Bacon.
377. CREATIVE COMPOSITION. 3 hrs.
Practice in writing the literary forms.
405. STUDY OF THE ENGLISH LANGUAGE. 3 hrs.
Growth, structure, and present usage of the English language.
408. ADVANCED EXPOSITORY WRITING. 3 hrs.
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.
412. STUDY OF POETRY. 3 hrs.
Theory and prosody, and principal types, forms, and themes.
417. ENGLISH DRAMA TO 1642. 3 hrs.
Non-Shakespearean English drama from its beginnings to the closing of the theatres.

420. SENIOR SEMINAR IN LITERATURE. 2 hrs.
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.
442. AMERICAN NOVEL TO 1900. 3 hrs.
Historical and critical study from the beginnings to the Twentieth Century.
444. EMERSON, POE, WHITMAN. 3 hrs.
Prose and poetry of these writers in their literary and intellectual milieu.
446. DRAMA OF THE RESTORATION AND EIGHTEENTH CENTURY. 3 hrs.
Trends, movements, and dramatic types in the English theatre of this period.
447. ENGLISH ROMANIC POETS. 3 hrs.
Emphasis on Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.
450. WORLD LITERATURE TO THE RENAISSANCE. 3 hrs.
Major works (excluding English), with emphasis on Homer, the Greek drama, Vergil, Dante, and Cervantes.
451. WORLD LITERATURE SINCE THE RENAISSANCE. 3 hrs.
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.
470. TWENTIETH CENTURY LITERATURE. 3 hrs.
Representative genres, British and American.
475. INTRODUCTION TO LINGUISTICS. 3 hrs.
Fundamentals of the structural and descriptive approach to study of the English language.
- 480-490. SPECIAL TOPICS. 1-4 hrs.

495H-496H. READINGS FOR HONORS IN ENGLISH. 4-4 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 page 47 for regulations and general information.

FRENCH**COLLEGE OF ARTS AND SCIENCES**

(Division of Humanities)

Associate Professors Noble, Parrish

121-122. FIRST YEAR FRENCH. 3-3 hrs. I, II.

Pronunciation, conversation, reading, and composition with emphasis on the oral approach. No credit for 121 without 122.

PR for 122: French 121 or one unit 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.

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 two units of high school French.

PR for 242: French 241 or consent of instructor.

315-316. ADVANCED COMPOSITION AND READING. 3-3 hrs. I, II.

Study of idioms and difficult constructions. Translation and free composition together with intensive reading. Recommended for majors.

PR for 315: French 224.

PR for 316: French 315 or consent of instructor.

327. SEVENTEENTH CENTURY LITERATURE. 3 hrs.

A presentation of the development, spirit, and characteristics of French classicism through a study of Moliere and Corneille.

PR: French 224.

328.* SEVENTEENTH CENTURY LITERATURE. 3 hrs.

Racine's plays, Descartes, Pascal, and other prose classicists together with La Fontaine, Boileau, and others of the Golden Age.

PR: French 224.

355-356. FRENCH CIVILIZATION AND CULTURE. 2-2 hrs. I, II.

French culture from prehistoric to modern times.

This course will be conducted in French, and full language credit will be given.

PR for 355 and 356: French 224.

- 361-362. ADVANCED ORAL FRENCH. 2-2 hrs. I, II.
Advanced problems of French pronunciation and advanced conversation on selected topics. Recommended for majors.
PR for 361: French 224 or consent of chairman.
PR for 362: French 361 or consent of chairman.
435. NINETEENTH CENTURY LITERATURE. 3 hrs.
The French romantic movement as exemplified in the poetry, drama, and the novel of the period.
PR: French 224.
436. NINETEENTH CENTURY LITERATURE. 3 hrs.
Realistic and naturalistic fiction, realism in the theatre, and selected poems of Baudelaire, the Parnassians, and the Symbolists.
PR: French 224.
- 455-456.* SPECIAL TOPICS. 2 to 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: 3 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 honors credit. Refer to page 47 for rules and general information.

GEOGRAPHY

TEACHERS COLLEGE

Professors Clagg, Britton, Davis

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 environment 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, S.
A study of those 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, S.
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 intermountain 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.
406. GEOGRAPHY OF BRAZIL. 2 hrs.
Regional study of relation of man's activities to natural environment.
407. GEOGRAPHY OF ARGENTINA. 2 hrs.
Regional study of relation of man's activities to natural environment.
408. GEOGRAPHY OF MEXICO. 2 hrs.
Regional study of relation of man's activities to natural environment.
409. GEOGRAPHY OF CANADA. 2 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. 2 hrs.
Climate, minerals, and land forms checked in explaining major economic activities of the islands.
415. GEOGRAPHY OF INDIA. 2 hrs.
India, Pakistan, Ceylon, and Burma studied to show cultural-environmental relationships.

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. **READINGS FOR HONORS IN GEOGRAPHY.** 4-4 hrs. I, II.

GEOLOGY

COLLEGE OF ARTS AND SCIENCES

(Division of Sciences)

Professor Janssen

Assistant Professor Moore

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. LF: \$2.00.
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: Geol. 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. I.
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: Geol. 201.
314. **MINERALOGY.** 4 hrs. I.
Identification, classification, origin, occurrence and economic uses of minerals; crystallographic forms and blowpipe analysis. 2 lec - 4 lab. LF: \$2.00.
PR: Geol. 200.

315. GEOLOGY OF WEST VIRGINIA. 3 hrs. I, S.

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: Geol. 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. LF: \$2.00.

PR: Geol. 314.

350. PHYSIOGRAPHY OF NORTH AMERICA. 3 hrs. S.

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: 10 hrs. 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. LF: \$2.00 if lab facilities are required.

PR: 10 hrs. of geology.

402. RESEARCH PROBLEMS IN GEOLOGY. 2 hrs. I, II.

Independent research in selected phase of geology; research methods and practice, with results embodied in a written report. Majors and minors only. LF: \$2.00 if lab facilities are required.

PR: 10 hrs. of geology.

405. EARTH SCIENCE. 4 hrs. S.

Nature of the earth, geologic agents and processes, land forms and erosion, rocks, minerals and fossils; methods of teaching geology in secondary schools. Field trips. Not open to students who have had Geology 200. 3 lec. - 2 lab. LF: \$2.00.

418. PALEONTOLOGY. 3 hrs. I, S.

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.

422. ECONOMIC GEOLOGY. 3 hrs. II.

Nature, origin, occurrence and distribution of the world's commercially valuable and useful mineral and rock resources.

PR: Geology 201.

451. GEOMORPHOLOGY. 3 hrs. II, S.

Geologic nature, origin and classification of the world's land forms as resulting from their structural, orogenic, and erosional history.

PR: Geology 200.

GERMAN

COLLEGE OF ARTS AND SCIENCES

(Division of Humanities)

Professors Lieberman, Perl

101-102. FIRST YEAR GERMAN. 3-3 hrs. I, II.

Grammar, pronunciation, beginning conversation, reading and comprehension. No credit for 101 without 102.

PR for 102: 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. A student who has taken 203-204 cannot get credit for 223-224.

PR for 203: 102 or equivalent.

PR for 204: 203 or equivalent.

223-224. SCIENTIFIC GERMAN. 3-3 hrs. I, II.

Grammar, technical vocabulary and translations of scientific articles and books. A student who has taken 223-224 cannot take 203-204 for credit.

PR for 223: 102 or equivalent.

PR for 224: 223 or equivalent.

301. DRAMA OF THE 19TH AND 20TH CENTURIES. 3 hrs. I, II.

A survey of literary trends and main authors. Reading and comprehension of selected dramas of the period.

PR for 301: 204 or 224.

302. PROSE OF THE 19TH AND 20TH CENTURIES. 3 hrs. I or II.

A survey of literary trends and main authors. Reading and comprehension of selected stories and discussion of novels.

PR for 302: 204 or 224.

309-310. CONVERSATION. 2-2 hrs. I, II.

Requirement for all German majors.

PR for 309: 102 or equivalent.

PR for 310: 309 or equivalent.

317-318. SURVEY OF GERMAN LITERATURE. 3-3 hrs. I, II.

A study of important literary movements, representative authors and their works. Reading of significant dramas and novels.

PR for 317: 204 or equivalent.

PR for 318: 204 or equivalent. 317 is not a prerequisite for 318.

- 407-408. GOETHE'S FAUST. 3-3 hrs. I, II.
Reading of *Faust*, parts I and II, with a presentation of the *Faust* legend, Goethe's life and works as related to *Faust*.
PR for 407: 204 or equivalent. Open to Juniors.
PR for 408: 407 or equivalent.
- 482-483. SPECIAL TOPICS. 2-4 hrs. I, II.
PR for 482 or 483: Senior standing as a German major with approval of instructor and department chairman. 482 is not a prerequisite for 483.
- 495H-496H. READING 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.

HISTORY

COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professors Heath, Cometti, Moffat

Assistant Professor Sullivan

105. ENGLISH HISTORY TO 1660. 3 hrs. I, II.
A political and social survey of England. Emphasis is placed particularly on the development of the English Parliament.
106. ENGLISH HISTORY SINCE 1660. 3 hrs. I, II.
A continuation of 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. To be taught in 1964-65.
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. To be taught in 1964-65.
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." To be taught in 1964-65.
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. To be taught in 1964-65.

307. THE HISTORY OF WEST VIRGINIA. 3 hrs. I. Alternate Years.

A history of West Virginia with emphasis on exploration and settlement, sectionalism in ante-bellum Virginia, the West Virginia statehood movement, and recent economic, social and political developments. Open to all undergraduates except those who have had Social Studies 303. Will be taught in 1965-66.

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 contributions 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 readjustments required. Will be taught in 1965-66.

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. Will be taught in 1965-66.

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. (Formerly 221).

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 will be particularly noted. (Formerly 222).

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 into Asia.

402. AMERICAN DIPLOMACY. 3 hrs.

A history of American foreign relations from colonial days to the present, a detailed account of the aims and actions of the executive and legislative departments in defending our nation's interests by peaceful negotiations and of the consequences of their efforts.

416. HISTORIOGRAPHY AND METHODOLOGY. 3 hrs. II. Alternate Years.

Survey of historical literature and practical experience in methods and sources of history through bibliographical study and research papers. Recommended for senior history majors and students beginning graduate work in history. Will be taught in 1965-66.

417. REPRESENTATIVE HISTORIANS AND THEIR WORKS. 3 hrs.

A general study of significant historians and their works from Herodotus to Toynbee.

418. EUROPEAN DIPLOMACY. 3 hrs.

Particular attention will be given to the period since the French Revolution. Diplomatic history of major continental nations and diplomatic relations with non-European nations will be 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 will be 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 will be noted. The impact of imperialistic rivalry will be 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 will be 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 on 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. READING FOR HONORS IN HISTORY. 4 hrs. I.

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 chairman.

496H. READING FOR HONORS IN HISTORY. 4 hrs. II.

Continuation of 495H.

HOME ECONOMICS**TEACHERS COLLEGE**

Associate Professors Burnette, Foosse, Neely, Strouss
Instructor Sullivan

110. FOOD SELECTION AND PREPARATION. 3 hrs. I, II.

Basic principles in selection, preparation, preservation and serving of foods for optimum nutritive value. LF: \$5.00.

112. CLOTHING. 3 hrs. I, II.

Fundamentals of clothing selection and construction using natural and man-made fibers and commercial patterns. Simple problems of pattern alteration, fitting, and machine techniques.

203. MEAL MANAGEMENT. 3 hrs. I, II.

Planning, preparing and serving meals for the average family in terms of nutritive requirements, food budgets and managerial principles. LF: \$5.00.

PR: Home Economics 110.

210. NUTRITION. 3 hrs. I, II.

A study of normal nutritional needs of individuals and families, the nutrients and their functions in the body as a basis for planning family dietaries.

212. TEXTILES. 2 hrs. I, II.

A study of natural and man-made textile fibers, weaves, and finishes as related to the selection, use and care of clothing and household textiles.

303. **CHILD CARE AND DEVELOPMENT.** 3 hrs. I, II.
A study of the care and guidance of young children 2-6 years of age, in relation to their physical, emotional, mental, and social development.
2 lec.-2 nursery school participation.
304. **DIET THERAPY.** 3 hrs.
Modern concepts of the relation of nutrition and diet to the prevention and treatment of disease. LF: \$5.00.
PR: Home Economics 210, 301 and Chemistry 104.
329. **ADVANCED CLOTHING.** 3 hrs. I, II.
A course planned to develop accepted time-saving techniques and skills in handling a variety of fabrics. Comparison of custom made and ready to wear garments. LF: \$1.00.
PR: Home Economics 112 or consent of instructor.
350. **FAMILY HEALTH AND HOME CARE OF THE SICK.** 3 hrs.
Factors affecting the achievement and maintenance of the physical, mental and emotional health of family members at a high level. Home care of the sick. Some first aid and family preparation for civilian defense. LF: \$1.00.
351. **HOUSING.** 3 hrs. I, II.
Consideration of the social, economic, physical and aesthetic aspects of housing in relation to family needs.
354. **HOME FURNISHINGS.** 3 hrs. I, II.
Art elements and principles as supplied to furnishings and interiors of houses.
358. **PRINCIPLES OF MANAGEMENT.** 2 hrs. I, II.
Significance and use of the management process in achieving family goals.
400. **CONSUMER PROBLEMS OF THE FAMILY.** 3 hrs.
Current aspects relating to purchase of goods and services to meet needs and wants of individuals and families.
403. **ADVANCED NUTRITION.** 3 hrs. I.
Metabolism of food nutrients as related to nutritional requirements of man. Reports of current nutrition research and other nutrition topics of current interest—to add depth and perspective in nutrition.
PR: Home Economics 203, 210 and Chemistry 104.
405. **QUANTITY FOOD SERVICE.** 3 hrs. II.
Experience in 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. **INSTITUTION MANAGEMENT.** 3 hrs.
Principles of organization and management as applied to administration of food service in institutions.
PR: Junior or senior standing.

413. EXPERIMENTAL COOKERY. 3 hrs.

Experimental study of chemical and physical factors affecting standard food preparation procedures. LF: \$5.00.

PR: Home Economics 110 and 203, Chemistry 103 and 104.

415. FAMILY RELATIONSHIPS. 3 hrs. I, S.

A study of the interrelationships in the family in present day society as it progresses through its family life cycle, with some consideration of the family life in other cultures.

PR: Junior or senior standing.

416. PRENATAL AND INFANT CARE. 3 hrs. II, S.

A study of prenatal and postnatal care of the mother, and needs and care of the infant from birth to two years.

PR: Junior or senior standing.

419. TAILORING. 3 hrs.

Selection, fitting and construction of tailored wool garments. A comparison of time and cost of different methods. LF: \$2.00.

PR: Home Economics 329 or consent of instructor.

420. HOUSEHOLD EQUIPMENT. 3 hrs. I, II, S.

Principles underlying the selection, use, and care of household equipment.

426. HOME MANAGEMENT RESIDENCE. 3 hrs. I, II, S.

Residence in the home management house for a period of eight weeks to apply principles of management of group living and the various phases of homemaking. Reservations must be made a semester in advance.

PR: (or parallel): Home Economics 358.

440. NUTRITION IN THE HOME AND SCHOOL. 3 hrs. I, S.

A study of the fundamental principles of human nutrition and their application in the home and school. Designed primarily for elementary teachers. (Not open to home economics majors.)

454. PROBLEMS IN HOME FURNISHINGS. 3 hrs.

Practical problems relating to modern decorating with consideration given to the selection and use of suitable fabrics and materials for making curtains, draperies, slipcovers, and reclaiming and refinishing furniture. LF: \$2.00.

481-485. WORKSHOP. 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 or graduate standing.

HOME ECONOMICS EDUCATION

TEACHERS COLLEGE

306. METHODS IN HOME ECONOMICS EDUCATION. 3 hrs. I.

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: Junior standing.

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 EDUCATION. 8 hrs. I, II.

Directed teaching in an approved off-campus vocational home economics program in a secondary school.

PR: Senior Standing.

JOURNALISM

COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professor Pitt

Assistant Professor Francois

Instructor Behrens

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, etc. Laboratory work on student newspaper.

300. HISTORY OF AMERICAN JOURNALISM. 3 hrs. II.

The development of the press in the United States and the contributions of American journalists. The periods and changes in ethics and practices in American Journalism.

301-302. COPY READING, EDITING. 3-3 hrs. I, II.

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.

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.

320-321. CRITICAL WRITING. 2-2 hrs. I, II.

The work of the reviewer for the modern newspaper. Students discuss and review local and national literature, drama, motion pictures and television for area media.

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 publics he serves.

335. INDUSTRIAL PUBLICATIONS. 3 hrs. I.

A study and elucidation 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 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. 2 hrs. I, II.

Methods of taking pictures for newspapers and picture editing. Photo-editing, developing and printing required. LF \$8.00 per student for photographic material. Course is limited to 15 students with journalism and advertising majors assured of enrollment.

381. NEWSPAPER ADVERTISING PRACTICES. 3 hrs. I.

Organization of newspaper advertising departments and their relationships to advertising agencies and media representatives. An examination of the practices and problems of the three areas.

382. ADVERTISING COPY AND LAYOUT. 3 hrs. II.

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 media of mass communications. 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.

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.

427. JOURNALISTIC ENGLISH. 3 hrs. I.

A study of the language of mass communications in the 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 NEWSPAPERS. 3 hrs. II.

A study of high school newspapers, including practical experience in writing for school publications. Designed primarily for Teachers College English majors but open to students of all colleges.

LIBRARY SCIENCE**TEACHERS COLLEGE**

Associate Professor Locke

Instructor Fidler

301. THE TEACHER AND LIBRARY SERVICE. 3 hrs. I, II.

A study of the resources of the library and how to use them effectively with emphasis upon the study of books and magazines for young people.

310. ORGANIZATION AND ADMINISTRATION OF SCHOOL LIBRARIES.

3 hrs. II, alternate years S.

Principles underlying administration of school libraries with attention to schedules, routines, library housing, student assistants, equipment and methods of handling audio-visual aids.

315. REFERENCE AND BIBLIOGRAPHY. 3 hrs. I, alternate years.

A study of basic reference sources for school libraries with practice in evaluation and use of these materials; practical experience in the construction of bibliographies.

320. CATALOGUING AND CLASSIFICATION. 3 hrs. I, alternate years, S.

Fundamentals of cataloguing and classification, including use of related aids, printed cards, and special adaptations of the school library card catalog.

PR: Skill in typing.

401. HISTORY OF BOOKS AND LIBRARIES. 3 hrs. II, alternate years, 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.** 2 hrs. II.
Evaluation of aids and standards for selection of books and materials with attention being given to children's reading interests; practice in storytelling.
405. **BOOK SELECTION FOR ADOLESCENTS.** 2 hrs. I.
Survey of books and other materials adapted to the needs of adolescents. Critical evaluation of standard, classic and current books, together with aids and criteria for selection. Reading interests of the retarded and nonreader considered.
410. **FOUNDATIONS OF MASS COMMUNICATION.** 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. Experiences gathered in Laboratory School and affiliated schools.
PR: 15 hours of library science.
- 482-485. **SPECIAL TOPICS.** 1-4 hrs. S.

MATHEMATICS

COLLEGE OF ARTS AND SCIENCES

(Division of Sciences)

Professors Bauserman, Hardman

Associate Professor Goins

Assistant Professors Czompo, Jordan, Sears, Thompson

Instructors Hatfield, Hess, Plybon

52. **PLANE GEOMETRY.** No credit. I.
PR: 1 unit of high school algebra.
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 and logarithms.
120. **ALGEBRA.** 3 hrs. I, II.
Exponents and radicals; quadratic equations; ratio, proportion and variation; logarithms; binomial theorem; progressions.
PR: Satisfactory attainment on the placement examination.
121. **SOLID GEOMETRY.** 3 hrs. I, II.
PR: One unit of high school algebra; plane geometry.
122. **PLANE TRIGONOMETRY.** 3 hrs. I, II.
PR: One unit of plane geometry; Mathematics 120, or concurrent registration in Mathematics 120.

123. COLLEGE ALGEBRA. 3 hrs. I, II.
Advanced topics in quadratic equations, theory of equations, mathematical induction, determinants, permutations, combinations and probability.
PR: Mathematics 120, or equivalent as shown by a placement test.
124. ANALYTIC GEOMETRY. 4 hrs. I, II.
Plane analytic geometry with an introduction to solid analytic geometry.
PR: Mathematics 123, or concurrent registration; Mathematics 122.
- 170-171. A MODERN APPROACH TO ELEMENTARY MATHEMATICS.
3-3 hrs. I, II. (Formerly Mathematics 250-251.)
Given as an inservice course for high school teachers.
PR: Superior training in high school algebra and geometry.
May not be used toward a major in mathematics.
- 180-181. FRESHMAN MATHEMATICS. 5-5 hrs. I, II.
(Formerly Mathematics 125-225.)
A coordinated course in algebra, trigonometry, and analytical geometry, with an introduction to calculus.
PR: Mathematics 120, or superior attainment in the placement test; one unit of plane geometry.
- 218-219. ANALYTIC GEOMETRY AND CALCULUS. 4-4 hrs. I, II.
(Formerly Mathematics 320-321.)
A coordinated course given as an inservice course for high school teachers.
PR: Mathematics 170-171, or Mathematics 122 and 123.
May not be used toward a major in mathematics.
220. DIFFERENTIAL AND INTEGRAL CALCULUS. 4 hrs. I, II.
(Formerly Mathematics 325.)
Variables, functions, limits, differentiation with applications, introduction to integration with applications, indeterminate forms.
PR: Mathematics 124, or 181.
221. INTEGRAL CALCULUS. 4 hrs. I, II.
(Formerly Mathematics 326.)
Methods of integration, applications of definite integrals, approximate integration, infinite series, expansion of functions, multiple integration.
PR: Mathematics 220.
322. SOLID ANALYTIC GEOMETRY. 3 hrs. I, II.
(Formerly Mathematics 421.)
The point, plane, straight line, surfaces and curves referred to coordinate systems in space.
PR: Mathematics 124, or 181.
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.

- 400-401. MODERN MATHEMATICS FOR HIGH SCHOOLS. 3-3 hrs. I, II.
An introduction to materials prepared by the School Mathematics Study Group for grades 9 through 12.
PR: Consent of instructor.
May not be used toward a major in mathematics.
- 402-403. FOUNDATIONS AND FUNDAMENTAL CONCEPTS OF MATHEMATICS. 3-3 hrs. I, II.
Emphasizes mathematical structure, the mathematical method, and the nature and use of mathematical systems and models.
PR: Junior, senior, or graduate standing.
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. I, II.
The algebra of vectors, the calculus of vectors with applications, introduction to tensor analysis.
PR: Mathematics 221.
436. PARTIAL DIFFERENTIAL EQUATIONS. 3 hrs. I, II.
An exposition of methods used in solving partial differential equations with applications to geometry and topics in mathematical physics.
PR: Mathematics 435.
443. NUMERICAL ANALYSIS. 3 hrs. I, II.
The theory and technique of numerical computation involving interpolation methods, solution of systems of equations, and methods of solving ordinary differential equations.
PR: Mathematics 435.
- 445-446. INTRODUCTION TO THEORY OF STATISTICS. 3-3 hrs. I, II.
Probability spaces, random variables, and algebra of expectations; sampling methods; estimation of parameters; tests of hypotheses; analysis of variance.
PR: Mathematics 221.
- 448-449. FUNDAMENTAL CONCEPTS OF GEOMETRY. 3-3 hrs. I, II.
A broad study of the development of Euclidean Geometry as a specialization of Projective Geometry using synthetic and algebraic methods.
PR: Junior, senior, or graduate standing.
- 450-451. FUNDAMENTAL CONCEPTS OF MODERN ALGEBRA. 3-3 hrs. I, II.
Set theory and logic with applications; number theory; groups; matrices, with applications; determinants.
PR: Junior, senior, or graduate standing.

- 460-461. **FUNCTIONS OF A COMPLEX VARIABLE.** 3-3 hrs. I, II.
Complex numbers, analytic functions, properties of elementary functions, integrals, series, residues and poles, conformal mapping.
PR: Mathematics 221.

MATHEMATICS EDUCATION

TEACHERS COLLEGE

Professor Nuzum

Associate Professors Gray, Wright

Assistant Professor Regula

100. **COLLEGE ARITHMETIC.** 3 hrs. I, II, S.
Important mathematical concepts in the fields of arithmetic, algebra, and geometry, including such items as interpretation of data, use of tables, ratios, etc. Diagnostic and remedial work in fundamentals.
200. **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.
- 482-485. **SPECIAL TOPICS.** 1-4 hrs.

MEDICAL TECHNOLOGY

COLLEGE OF APPLIED SCIENCE

Director: Professor Mills

Clinical Professors Werthammer, Sadler

Assistant Clinical Professor Garrett

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, reticulocysts. Study of blood in disease (blood dyscrasias, leukemias). Blood clotting tests; 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, nonprotein-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. (2 wks.) 1 hr. 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.I. and Kolmer Compliment Fixation tests, cold agglutinins, heterophile antibody test. 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 (CO_2 and O_2 contents and capacity). Spirometry and respirometry.

410. SEM.NARS. (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

Lt. Col. Patrick H. Morgan

Maj. Lawrence M. Kelly

Capt. William H. Dearborn, Henry M. Vosbein

Master Sgts. Alex MacKenzie, Jay P. Porter

Sgt. F. C. Walter Figge

S/Sgt. James O. Baker

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 MS 101 without completion of MS 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 MS I. Three hours per week.

PR: MS 101-102. No credit given for MS 201 without completion of MS 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 in the Battle Group program; 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. Five hours per week.

PR: MS 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.

PR: MS 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 Battle Group program; study of command and staff, personnel and administration, intelligence, logistical and operational aspects of army operations up to and including the Battle Group 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. Five hours per week.

PR: MS 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. 2 hours per week.

PR: MS 401-402.

404H-405H. READING FOR HONORS IN MILITARY SCIENCE. 4-4 hrs.

Open only to seniors with a 3.3 general average and a 3.5 or better in Military Science designated Distinguished Military Students prior to their senior year and after the summer camp experience.

MUSIC**TEACHERS COLLEGE**

Professor Kingsbury

Associate Professors Creighton, Davidson, Drescher, Imperi, Lanegger,
O'Connell, Pursley, Shepherd, Wolff

Assistant Professors Jones, McMullen, Schall

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.

123. **INTRODUCTION TO MUSIC LITERATURE.** 2 hrs.

A survey of music with special emphasis upon the relationship of music between music and the other major arts of each important period of Western civilization.

PR: Music 175.

175. **MUSIC IN HUMAN RELATIONS.** 2 hrs. I, II, S.

Emphasis is placed upon the use of music in school and society.

176. **LISTENING AND READING MATERIALS IN MUSIC FOR CHILDREN.** 2 hrs.

Presents recorded materials suitable for children, books on and about music and musicians to be used in the elementary school program.

203. **MUSIC AS AN ART AND A SCIENCE.** 2 hrs. I, II, S.

Theoretical techniques used in reading and teaching song materials of elementary level.

204. **MUSIC THEORY FOR ELEMENTARY TEACHERS.** 2 hrs.

Further development of the content listed under Music 203.

PR: Music 203.

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 eighteenth century style.

231-232. **VOICE TECHNIQUES FOR ELEMENTARY TEACHERS.** 1-1 hrs. I, II.

Problems in developing the voice of elementary school children.

262-462. **INSTRUMENTAL TECHNIQUES.** 1-1 hrs. I, II.

The study of orchestra and band instruments with special emphasis on techniques of teaching beginning students. The course will be repeated with a different instrument each semester.

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.

305. **ESSENTIALS OF KINDERGARTEN-PRIMARY MUSIC.** 2 hrs.
Music materials and methods for use with kindergarten-primary children; songs, rhythms, recorded music, rhythm band instruments, and piano music.
- 312-313. **VOCAL TECHNIQUES.** 1-1 hrs. 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.
320. **ORCHESTRATION.** 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.
370. **PUBLIC SCHOOL MUSIC METHODS.** 2 hrs. I, II, S.
Methods and materials for teaching music in the elementary grades.
PR: Music 175 and 203.
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.
381. **CHORAL CONDUCTING.** 2 hrs.
Continuation of Music 380 with emphasis on interpretation, voice classification, intonation, choral repertoire, and program building. Opportunity for practical experience is provided by the various college choral organizations.
- 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 use in the church service. Open to advanced music students or consent of instructor.
430. **COMPOSITION.** 2 hrs. II.
Experience in writing music composition 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 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.

497-498. PIANO TUNING AND REPAIR. 2-2 hrs.

A study of the mechanism of the piano and training in the use of piano maintenance tools. Combination of lecture, demonstration and laboratory practice. Open to junior, senior and graduate students by permission of department head.

Music Education

338. MATERIALS AND METHODS IN SCHOOL MUSIC (GRADES 1-6). 4 hrs.

Intensive study of vocal and instrumental materials and methods of presentation in grades 1-6 inclusive.

340. MATERIALS AND METHODS IN SCHOOL MUSIC (GRADES 7-12). 4 hrs.

Intensive study of vocal and instrumental materials and methods of presentation of music in grades 7-12 inclusive.

MAJOR ENSEMBLES

All music majors are required to enroll in a major ensemble for eight semesters, representing their applied music field as assigned by the Department of Music. Regular attendance at all rehearsals and performances is required.

107-307. CHORAL UNION. 1/2 - 1/2 hr. I, II.

This group has as its nucleus the members of the Symphonic Choir. Other qualified and interested people from both on and off the campus have, in the past, 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 occasion, 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 will be 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 University Community Symphony Orchestra 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

Assistant Professor Martin

Instructors Osbourne, Spencer, Butler

101. FUNDAMENTALS OF NURSING. 6 hrs. I.

Designed to help the beginning student adjust to the profession of nursing, the hospital and community. Solving nursing care problems common to all patients. 4 lec.-6 clinical lab.

102. MEDICAL AND SURGICAL NURSING. 6 hrs. II.

Prevention of disease, care of the ill and rehabilitation in relation to individuals, families and communities. 4 lec.-6 clinical lab.

PR: Nursing 101.

202. MEDICAL AND SURGICAL NURSING. 6 hrs. S.

Nursing care of individuals with functional disorders and disease conditions. Ability to make available all needed health resources to patients and families is developed. 4 lec.-6 clinical lab.

PR: Nursing 102.

204. **MEDICAL AND SURGICAL NURSING.** 6 hrs. I.
Theory and practice of nursing care of the aged and aged with long-term illnesses. 4 lec.-6 clinical lab.
Continuation of Nursing 202.
PR: Nursing 202.
210. **NURSING IN THE SOCIAL ORDER.** 3 hrs. II.
Designed to acquaint the student with the historical development, organization, fields and trends in professional nursing; and its relation to world developments. 3 lec.
211. **MATERNAL AND CHILD CARE.** 10 hrs. II.
Theory and experience in the care of mothers and new-born infants. Adaptation of total nursing care to children with various diseases and conditions of infancy and childhood. 6 lec.-12 clinical lab.
PR: Nursing 202.
214. **PSYCHIATRIC NURSING.** 6 hrs. I.
Theory and practice in the nursing care of mentally ill patients based on interpersonal relations. 4 lec.-6 clinical lab.
PR: Nursing 202.

ORIENTATION

100. **FRESHMAN ORIENTATION.** 0 hr. I, II.
Study of campus extra-curricular program, how to study, social competence, vocational opportunities, planning academic program. Required of all freshmen who enter in first or second semesters.

PHILOSOPHY

COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professor Beck

NOTE: No courses open to first semester freshmen.

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 the 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. **ESTHETICS.** 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 John Dewey.
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. Alternate Years.
Selected readings in contemporary thought embracing such movements as pragmatism, positivism, realism and idealism.
PR: Philosophy 201, or 311, or 312.
410. THE PHILOSOPHICAL SOURCES OF AMERICAN CULTURE. 3 hrs.
Alternate Years, S.
Attention to the thinkers who are most directly influential in determining the basic American beliefs and ideals in the realms of religion, science, morality, politics, economics, and education.
411. JOHN DEWEY: PHILOSOPHER AND EDUCATOR. 3 hrs. Alternate Years, S.
Exposition of Dewey's entire philosophy as background for his views on education.
419. RELIGIOUS THOUGHT IN THE WESTERN WORLD. 3 hrs. II, S.
- 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 Honors credit.
Refer to page 47 for rules and general information.

PHYSICAL EDUCATION

TEACHERS COLLEGE

Professors Fitch, Gaynor, Berryman, Josephs, McDonough

Assistant Professor Dollgener

Instructors Allen, Brown, Hayes, Johnson, Kautz, Prelaz, Snyder

100. BEGINNER'S COURSE IN SWIMMING. 1 hr. I, II.
LF: \$2.00.
103. FOOTBALL. 1 hr. I.
Theory and technique of football fundamentals and not credit for playing football. LF: \$2.00
104. MARCHING AND CALISTHENICS. 1 hr. I.
Theory and practice in teaching. Separate sections for men and women. Offered alternate years for women. LF: \$3.00.
108. FIELD BALL AND HOCKEY. 1 hr. I.
Theory and technique of field ball and hockey. Offered alternate years. LF: \$3.00.
109. TRACK (MEN). 1 hr. II.
Fundamentals in track and not credit for participating in track.
LF: \$2.00.

110. BASKETBALL. 1 hr. II.

Theory and technique of basketball fundamentals and not credit for playing basketball. Separate sections for men and women. Offered alternate years for women. LF: \$3.00.

111. BASEBALL (MEN). 1 hr. II.

Theory and technique of baseball fundamentals and not credit for playing baseball. LF: \$2.00.

112. TRACK, FIELD, AND SOFTBALL (WOMEN). 1 hr. II.

Theory, technique and fundamentals of track, field and softball. Offered alternate years for women. LF: \$3.00.

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. LF: \$3.00 for each course.

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 recommendations to the University physician. Carried on under the University physician's supervision to improve general physical condition and to correct physical handicaps as far as possible.

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. Separate sections for men and women. LF: \$2.00.

206. SOCCER AND SPEEDBALL. 1 hr. I.

Theory and technique of play. Separate sections for men and women. Offered alternate years for women. LF: \$2.00.

207. ARCHERY AND TENNIS. 1 hr. I, II, S.

Theory and technique of play. Separate sections for men and women. LF: \$2.00.

209. INDIVIDUAL AND DUAL SPORTS. 1 hr. I, II.

LF: \$2.00.

210. INDIVIDUAL AND DUAL SPORTS. 1 hr. I, II.

LF: \$2.00.

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. Separate sections for men and women.

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 and safety 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.

304. CREATIVE DANCE I. 1 hr. I.

Analysis and technique of rhythm of body movement with emphasis upon elementary dance design. Open to men and women. LF: \$2.00.

305. CREATIVE DANCE II. 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. LF: \$2.00.

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. LF: \$2.00.

307. SCOUTING. 1 hr. I.

Men: Organization and administration of Boy Scout troops, badge tests, etc. Women: Principles of Girl Scouts and Campfire organization. Offered alternate years for women.

308. CAMPING AND HIKING. 1 hr. II.

Lecture and laboratory. Problems in organization, food, and shelter. Separate sections for men and women. Offered alternate years for women.

309. ADVANCED TUMBLING (MEN). 1 hr.

LF: \$2.00.

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 exercise 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 games 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. LF: \$2.00.

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. LF: \$3.00.
320. LABORATORY FOR PHYSICAL EDUCATION 314. 2 hrs. II.
Laboratory consisting of practice in kindergarten and primary grades in the Laboratory School.
PR: Physical Education 314.
321. KINESIOLOGY. 3 hrs. I.
Applied anatomy of the human musculature in relation to physical activity.
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. Open to men and women. LF: \$2.00.
335. ORGANIZATION OF THE INTRAMURAL PROGRAM. 2 hrs. I, II.
Problems of policy and administration of intramural programs on the elementary, secondary, and college levels.
340. METHODS IN TEAM AND INDIVIDUAL SPORTS. 1 hr. I, II.
Development of teaching techniques of team and individual sports. Women only. LF: \$2.00.
341. METHODS IN RHYTHM. 1 hr. I, II.
Development of teaching techniques in rhythm. Men and women. LF: \$2.00.
345. LABORATORY CONSISTING OF PRACTICE IN INTERMEDIATE GRADES. 2 hrs.
PR: Physical Education 314.
347. LABORATORY CONSISTING OF PRACTICE IN JUNIOR AND SENIOR HIGH SCHOOL. 2 hrs.
PR: Physical Education 314.
349. ADAPTED PHYSICAL EDUCATION FOR ELEMENTARY SCHOOLS. 2 hrs.
Methods of detection and medical referral of physical abnormalities and of adapting the physical education program in the elementary schools to meet individual physical needs. This course does not substitute for Physical Education 322 or 310 for students with teaching fields in physical education.

350. ADAPTED PHYSICAL EDUCATION FOR JUNIOR AND SENIOR HIGH SCHOOLS. 2 hrs.

A brief study of physical abnormalities found in junior and senior high schools and methods of adapting the physical education program to meet individual physical needs. This course does not substitute for Physical Education 322 or 310 for students with teaching fields in physical education.

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. LF: \$2.00.

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. Separate sections for men and women. LF: \$2.00.

404. WATER SAFETY INSTRUCTION. 1 hr. II.

Material and methods of teaching American Red Cross Water Safety Course. Upon satisfactory completion, Water Safety Instructor's Certificate issued. Separate sections for men and women. LF: \$2.00.

PR: Senior Life Saving Certificate.

405. ADVANCED FOLK DANCING AND TAPPING. 1 hr. I.

Theory and practice of folk dancing and tapping. Open to men and women. LF: \$2.00.

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. LF: \$2.00.

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. Offered alternate years for women. LF: \$1.00 for each course.

422. PREVENTION, CARE AND TREATMENT OF ATHLETIC INJURIES. 2 hrs. I, II.

Massage, conditioning, first aid, and treatment of injuries, both theory and practice.

425. METHODS OF COACHING FOOTBALL AND BASKETBALL. 2 hrs. II, S.

Different styles of playing, methods of selecting and teaching players, officiating, scouting and a scientific analysis of the player and methods of playing.

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. II, S.
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 RECREATION LEADERSHIP.** 2 hrs.
Emphasis will be placed upon methods and materials, applicable to planning and directing various types of activities in recreational situations.
- 482-485. **SPECIAL TOPICS.** 1-3 hrs. I, II, S.

PHYSICS

COLLEGE OF ARTS AND SCIENCES

(Division of Sciences)

Professor Martin
Associate Professor Hanna
Instructor Shafer

- 201-203. **GENERAL PHYSICS.** 3 or 4 hrs. — 3 or 4 hrs. I, II.
Engineering, mathematics and physics majors take the 4-hour course; others take the 3-hour course. 3 or 4 lec.
PR: Mathematics 120 and 122 or 180 for the 3-hour course. Mathematics 124 or 181 and Mathematics 220 concurrently (or completed) for the 4-hour course.
- 202-204. **GENERAL PHYSICS LABORATORY.** 1-1 hr. I, II.
Required of all students taking Physics 201 and 203, unless exempt by special permission. 3 lab. LF: \$4.00.

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300. **ELECTRICITY AND MAGNETISM.** 3 hrs. I.
A study of direct current electricity and magnetism. 3 lec.
PR: Physics 203, 204 and Mathematics 220.
301. **ELECTRICAL MEASUREMENTS.** 2 hrs. I.
Accompanies Physics 300. 4 lab. LF: \$4.00.
PR: Physics 203-204 and Mathematics 220.
302. **ELECTRICITY AND MAGNETISM.** 3 hrs. II.
A study of alternating current electricity and magnetism. 3 lec.
PR: Physics 300 and Mathematics 220.
303. **ELECTRICAL MEASUREMENTS.** 2 hrs. II.
Accompanies Physics 302. 4 lab. LF: \$4.00.
304. **LIGHT.** 3 hrs.
An intermediate course in geometrical and physical optics. 3 lec.
PR: Physics 203 and 204.
305. **LIGHT LABORATORY.** 2 hrs.
Accompanies or follows Physics 304. 4 lab. LF: \$4.00.
PR: Physics 203 and 204.
306. **ELEMENTS OF MECHANICS.** 3 hrs.
An intermediate course in mechanics including a study of kinematics, dynamics, momentum, energy, gravitation, rotational motion, harmonic oscillations, and wave motion. 3 lec.
PR: Physics 203, 204 and Mathematics 221.
307. **MECHANICS LABORATORY.** 2 hrs.
Accompanies Physics 306. 4 lab. LF: \$4.00.
PR: Physics 203, 204 and Mathematics 221.
308. **HEAT.** 3 hrs.
An intermediate course in heat and thermodynamics. 3 lec.
PR: Physics 203 and 204.
309. **HEAT MEASUREMENTS.** 2 hrs.
Accompanies or follows Physics 308. 4 lab. LF: \$4.00.
311. **SOUND.** 3 hrs.
An intermediate course in wave motion, production of sound, acoustics and ultrasonics. 3 lec.
PR: Physics 203 and 204.
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. LF: \$4.00.
PR: Physics 203 and 204.

401. MODERN PHYSICAL THEORIES. 3 hrs.
A study of atomic theories of matter, optical spectroscopy, X-rays, and solid state physics. 3 lec.
PR: Physics 203-204.
405. MODERN PHYSICS LABORATORY. 2 hrs.
A series of experiments in atomic physics and related fields to accompany or follow Physics 401. 4 lab. LF: \$8.00.
PR or CR: Physics 401.
412. RADIO. 3 hrs.
A study of basic theory of components and circuits associated with radio and television. 3 lec.
PR: Physics 314 or equivalent.
413. RADIO LABORATORY. 2 hrs.
Accompanies Physics 412. 4 lab. LF: \$4.00.
PR: Physics 314 or equivalent.
462. NUCLEAR CHEMISTRY AND PHYSICS. 3 hrs.
An introduction to the phenomena of nuclear chemistry and physics. 3 lec.
PR: Physics 203, 204 and Mathematics 221.
463. NUCLEAR CHEMISTRY AND PHYSICS LABORATORY. 2 hrs. II.
Accompanies or follows Physics 462. 4 lab. LF: \$10.00.
PR: Physics 203, 204 and Mathematics 221.
- 482-485. SPECIAL TOPICS. 1-4 hrs. I, II, S.
By permission of department chairman.

POLITICAL SCIENCE

COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professors Stewart, Harper, Harris

Assistant Professors Choi, Perry

Instructor Abbas

101. INTRODUCTORY COURSE. 2 hrs. I, II.
Survey of basic theories and principles of the state. To acquaint students with political terminologies and elements of governmental institutions.
102. INTRODUCTORY COURSE. 2 hrs. I, II.
Current political problems.
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 governmental 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. II.
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.
- 400-404. SELECTED TOPICS. 3 hrs. each.
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.
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.
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. FAR EASTERN POLITICS. 3 hrs.
Detailed discussion of the contemporary institutions and politics of China, Japan and other nations of the Far East.

408. **POLITICS OF THE MIDDLE EAST.** 3 hrs.
Detailed examination of the institutions and politics of such states as Egypt, Turkey, Persia, Afghanistan, 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.
420. **STATE ADMINISTRATION.** 3 hrs.
Administrative organization and methods of executing policies in the fifty states.
PR: Political Science 202.
425. **EARLY POLITICAL THEORY.** 3 hrs.
Political thought and philosophy from Plato to the 17th century.
426. **RECENT POLITICAL THEORY.** 3 hrs.
Political thought and philosophy from the 17th century to the present time.
- 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 Honors credit.
Refer to page 47 for rules and general information.

PSYCHOLOGY

COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professor Loemker

Associate Professors Jensen, Ward, Wolf

Instructor Agee

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.
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.

308. ABNORMAL PSYCHOLOGY. 3 hrs. I, II.
Nature, causes, and prevalence of behavior deviations.
PR: Psychology 201.
311. PSYCHOLOGICAL DEVELOPMENT: INFANCY TO OLD AGE. 3 hrs. I, S.
Psychological characteristics and personal and social problems of developmental periods of life span.
PR: Psychology 201.
318. PERSONNEL PSYCHOLOGY FOR TECHNICAL WORKERS. 2 hrs. I.
Psychology of industrial relations for the supervisor. Junior and senior majors in chemistry, physics, engineering.
PR: Consent of instructor.
323. EXPERIMENTAL PSYCHOLOGY OF LEARNING AND MOTIVATION. 3 hrs. I.
Methodology and research in learning and motivation. 2 lec. - 2 lab.
LF: \$2.00.
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. LF: \$2.00.
PR: Psychology 223.
332. PSYCHOLOGY IN ADVERTISING. 2 hrs. II.
Psychological principles in the planning, construction, and evaluation of advertising.
PR: Psychology 201.
340. PHYSIOLOGICAL PSYCHOLOGY. 3 hrs. II.
The relationships between physiological functions and biochemical processes and behavior and experience.
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.
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. LF: \$2.00.
PR: Psychology 323, 324, 406; Mathematics 120.
418. PSYCHOLOGY OF PERSONNEL. 3 hrs. I, II, S.
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, S.

PR: Twelve hours of psychology.

490. PROBLEMS IN PSYCHOLOGY. 1-4 hrs.

Independent study and research.

PR: Senior standing, twenty 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 Honors credit. See page 47 for rules and general information.

SAFETY EDUCATION

TEACHERS COLLEGE

Professor Fitch

235. INTRODUCTION TO SAFETY EDUCATION. Grades 1-12. 2 hrs.

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.

385. TRAFFIC SAFETY AND DRIVER EDUCATION. 2 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 an auditor 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.

SCIENCE

(General, Biological and Physical)

TEACHERS COLLEGE

Associate Professor Ward

Assistant Professors Ash, Gillespie, Modlin

Instructor Noble

107-108. BIOLOGICAL SCIENCE. 3-3 hrs. I, II, S.

Human implications of biology; the human body; conservation of soils, forests, wildlife. Ecological inter-relationships, heredity, evolution, animal and vascular plant life. LF: \$3.00.

- 109-110. GENERAL PHYSICAL SCIENCE. 3-3 hrs. I, II, S.
The universe, energy and its various forms, force and motion.
The crust of the earth, rocks and minerals, weather, wave motion.
LF: \$3.00.
306. FIELD BIOLOGY. 3 or 4 hrs. II, S.
Identification, classification, different habitats, and communities
of animal and plant life. LF: \$3.00.
PR: 6 hours of biological science.
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. LF: \$3.00.
PR: 6 hours of biological or physical science.
330. ECOLOGY. 4 hrs. I, S.
The interrelationships of plants and animals. Local and world
distribution of biotic communities. LF: \$3.00.
PR: Botany 316 or consent of instructor.
400. ASTRONOMY. 3 hrs. I, S.
A study of the stars and planets and galaxies, planetary motion,
cosmology and cosmography. Designed to assist teachers and others to
develop an interest in astronomy. LF: \$3.00.
- 460-462. SPECIAL PROBLEMS. 1-3 hrs. I, II, S.
By permission of department chairman.
482. CONSERVATION OF FORESTS, SOIL AND WILDLIFE. 3 hrs. I, S.
Primarily for teachers in the biological sciences, general and applied
sciences. Includes fieldwork, seminars, and demonstrations related to
conservation. LF: \$3.00.
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. LF:
\$3.00.
12 hours of science.

SOCIAL STUDIES

TEACHERS COLLEGE

Professor Harris

Associate Professors Brown, Cubby, Felty, Phillips

Instructors King, Koletka

- 104-105. DEVELOPMENT OF SOCIAL INSTITUTIONS. 3-3 hrs. I, II, S.
An interpretive survey of the growth of Western and the major
Eastern civilizations from the earliest times to the present.
- 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 hrs. I, II, S.
- 482-485. SPECIAL TOPICS. 1-3 hrs. I, II, S.

SOCIOLOGY AND ANTHROPOLOGY

COLLEGE OF ARTS AND SCIENCES

(Division of Social Sciences)

Professors Richardson, Simpkins

Instructor Russell

ANTHROPOLOGY

301. CULTURAL ANTHROPOLOGY. 3 hrs. I, S.
(Formerly Sociology 301.) Introduction to the scientific study of man and his culture with emphasis on the cultures of small-scale societies.
343. PRIMITIVE CULTURES. 3 hrs. II.
(Formerly Sociology 343.) Holistic approach to the comparative analysis of selected small-scale cultural systems. The specific cultures studied vary from year to year.
PR: Anthropology 301.
402. SPECIAL TOPICS. 1-3 hrs. I, II, S.
(Formerly Sociology 402.) Study of topics not covered by regular courses.
PR: 301, 343, and permission of instructor.
426. THE NEGRO IN AFRICA AND AMERICA. 3 hrs. I.
(Formerly Sociology 426.) Survey of Negro African cultures leading to analysis of the contemporary Negro in the Americas.
PR: 301.
427. ETHNIC RELATIONS. 3 hrs I, S.
(Formerly Sociology 427.) Theoretical analysis of the conditions and consequences of ethnic and culture contact with emphasis on the role of Western European cultures.
PR: 301.
430. THE AMERICAN INDIAN. 3 hrs. II, S.
(Formerly Sociology 430.) Comparative study of both pre-Columbian Indian cultures and post-Columbian changes.
PR: 301.

SOCIOLOGY

200. INTRODUCTORY SOCIOLOGY. 3 hrs. I, II, S.
Introduction to the scientific study of human society; its organization, structure, processes, and functions. (Open to freshmen)
Note: Sociology 200 is a prerequisite to all succeeding courses except as noted.

231. RURAL SOCIOLOGY. 2 hrs. I.
Comparative study of rural societies. (Open to freshmen; no prerequisite.)
232. URBAN SOCIOLOGY. 2 hrs. II.
Sociology of modern urban society. (No prerequisite)
302. SOCIAL PSYCHOLOGY. 3 hrs. I, II.
(Same as Psychology 302. Taught in Department of Psychology.)
PR: Psychology 201.
303. HUMAN ECOLOGY. 3 hrs. II.
Study of the ecological structure and processes of human communities, social regions, and culture areas.
305. COMMUNITY ORGANIZATION. 3 hrs. II.
Comparative analysis of the social organization of various types of communities with emphasis on communities in large-scale societies.
307. PUBLIC OPINION AND PROPAGANDA. 3 hrs.
(Same as Political Science 307. Taught in Department of Political Science.)
308. MARRIAGE AND FAMILY LIFE. 3 hrs. I, II, S.
A functional course in the personal, social, and cultural factors involved in courtship, marriage, and the family.
311. DEVIANT BEHAVIOR. 3 hrs. I.
Study of the basic concepts and theories of deviant behavior; the correlative social disorganization; and methods of treatment.
320. CRIMINOLOGY. 3 hrs. II.
Principles of criminology and penology with emphasis on contemporary methods of penal administration.
PR: Sociology 311.
342. AMERICAN SOCIETY. 3 hrs. I.
A sociological analysis of the main social and cultural features of contemporary American society.
344. INTRODUCTION TO SOCIAL RESEARCH. 3 hrs. I.
An introduction to systematic sociological research methods and techniques, including elementary descriptive statistics. 2 lec., 2 lab.
345. STATISTICS FOR SOCIOLOGY. 3 hrs. II.
Principles of inductive statistics including estimation, tests of hypothesis, correlation analysis, with an introduction to nonparametric measures. 2 lec., 2 lab.
PR: Sociology 344.

401. POPULATION PROBLEMS. 3 hrs. I.

Study of quantitative and qualitative factors in population growth and trends in significant areas of the world with emphasis on social and cultural implications. Introduction to demographic theory and research methods.

403. SOCIAL INVESTIGATION. 3 hrs. II.

Advanced methodology of research in sociology with emphasis on techniques of investigation, data analysis, and research design.

PR: Sociology 345.

408. THE FAMILY. 3 hrs. II.

Theoretical analysis of the family as a primary social institution, with emphasis on the impact of industrialization on family structure and function.

412. GROUP RELATIONS. 3 hrs. I.

Study of the dynamics of small groups with emphasis on role theory.

421. HISTORY OF SOCIAL THOUGHT. 3 hrs. I.

Survey of sociological thinking with emphasis on the development of sociological theory.

429. SOCIAL LEGISLATION. 3 hrs. I.

Study of contemporary social welfare legislation and its implications for society.

431. CLASSROOM AND FIELD STUDIES. 3 hrs. II, S.

Introduction to the principles of social casework and counselling.

432. CLASSROOM AND FIELD STUDIES. 3 hrs. I, II, S.

Subjects vary from semester to semester.

433. INDUSTRIAL SOCIOLOGY. 3 hrs. II, S.

The sociology of work, including industrial organization, human relations in industry, and bureaucracy.

435. PROBLEMS OF JUVENILE DELINQUENCY. 3 hrs. II.

Theories of delinquency causation and prevention; organization and functions of social agencies operating in the field.

436. AGING IN WESTERN CULTURE. 3 hrs. II.

Study of the problems associated with maturity, retirement, and old age in contemporary industrial societies.

439. SOCIAL STRATIFICATION. 3 hrs. I, S.

Analysis of various theories of stratification and systems of class and caste, with emphasis on the American class system.

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 Honors credit. Refer to page 47 for rules and general information.

SPANISH**COLLEGE OF ARTS AND SCIENCES**

(Division of Humanities)

Professors Fors, Martin

Assistant Professor Murphy

Instructor Miller

101-102. ELEMENTARY COURSE. 3-3 hrs. I, II, S.

Pronunciation, intonation, conversation, composition and reading.
Also, the indicative and subjunctive moods.
No credit is given for 101 without 102.

203-204. INTERMEDIATE COURSE. 3-3 hrs. I, II, S.

Composition, conversation and readings. Emphasis on idiomatic expressions and their use for cultural and practical purposes. Pronunciation and intonation.

PR: Spanish 102.

Note: Spanish 204 is a prerequisite for all courses numbered 300 and above.

310-311. ADVANCED CONVERSATION AND COMPOSITION. 2-2 hrs. I, II.

Conversation and discourses in Spanish on selected topics. Courses conducted strictly in Spanish.

312-313. SPANISH-AMERICAN LITERATURE. 2-2 hrs. I, II.

Readings from representative authors with reports and class discussions in Spanish; from the colonial period to the contemporaries.

314. STUDIES IN PHONETICS AND LANGUAGE LABORATORY TECHNIQUES. 3 hrs. I.

Drills in phonetics and training in the usage of laboratory equipment. Clinical practice in the use of laboratory facilities. 1 hr. lab to be arranged.

315. THE SPANISH SHORT STORY (CUENTO). 2 hrs. II.

Study of the short story of Spain since 1936 with discussions, and reports in Spanish.

320. PROSE READINGS OF THE 19TH AND 20TH CENTURIES. 3 hrs. I. (1965-1966)

Readings, lectures, discussions, and reports in Spanish of the works of representative authors from the generation of 1898 to the contemporaries.

330. MODERN DRAMA. 3 hrs. I. (1964-1965)

Readings, lectures, discussions and reports in Spanish on representative dramatists from the Neo-Classical period to the present.

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 311 or consent of the department chairman.

410. SPANISH LITERATURE FROM THE CID TO THE 17TH CENTURY. 3 hrs. II. (1964-1965)
Readings of significant literary works from the Cid to the 17th Century.
420. DRAMA OF THE GOLDEN AGE. 3 hrs. II (1965-1966).
Readings, lectures, discussions and reports in Spanish concerning representative dramatists of the Golden Age.
PR: Spanish 311 or consent of the department chairman.
- 490-491. SPECIAL TOPICS. 2-4 hrs. I, II.
Independent research for qualified students who are interested beyond the offering of the catalog.
PR: 3 hours of literature from courses numbered 320 or above and the permission of the department chairman.
- 495H-496H. READINGS FOR HONORS IN SPANISH. 4-4 hrs. I, II.
Open only to outstanding Spanish majors. Both courses must be taken to receive Honors credit. Refer to page 47 for information about honors courses.

Travel and Study in Spain*

307. SPANISH LANGUAGE TRAVEL STUDY IN SPAIN. 3 hrs. Extension Credit.
Study designed to increase fluency and obtain mastery of idiomatic expression through conversation.
PR: 204 or proficiency test.
407. SPANISH CIVILIZATION: TRAVEL STUDY IN SPAIN. 3 hrs. Extension Credit.
Readings and lectures in English on the culture, history, literature and arts of Spain.

SPEECH

COLLEGE OF ARTS AND SCIENCES
(Division of Humanities)

Professors Hoak, Buell, Hope, Ranson
Associate Professors Garrett, Novak, Page, Robertson
Assistant Professors Kearns, McCubbin
Instructors Johnson, Russell

- 101-102. PRACTICAL PUBLIC SPEAKING. 2-2 hrs. I, II.
Beginning course. Required of most entering freshmen.
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.
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. Includes parliamentary law.

*Offered every summer during the second session.

210. ACTING. 3 hrs. I, II.
Working theories of acting. Development of technical skill through use of various techniques.
- 225-226. INTERCOLLEGIATE DEBATE. 1-1 hrs.
PR: Permission of instructor.
240. VOICE TRAINING. 3 hrs. I, II.
Theory and practice of speech production and improvement.
PR: Speech 102.
250. STORY TELLING AND DRAMATIZATION. 3 hrs. I, II.
Preparation for nursery schools, kindergartens, grade schools.
260. FUNDAMENTALS OF RADIO AND TELEVISION. 3 hrs. I, II.
Announcing, acting, newscasting. Special emphasis on advertising copy.
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. 2 hrs. I, II.
Beginning course, open to juniors and seniors who have not had Speech 101 or 102. This course alone does not meet the degree requirement in speech.
306. ADVANCED PUBLIC SPEAKING. 3 hrs. I, II.
Advanced forms and practice of exposition and persuasion.
PR: Speech 102 or 305.
- 312-313. PLAY PRODUCTION. 2-2 hrs. I, II.
Elementary scene design, construction, painting, lighting, make-up.
Work coordinated with University Theatre Productions.
320. ORAL INTERPRETATION OF LITERATURE. 3 hrs. I, II.
The fundamentals of reading, analyzing, and interpreting literature.
PR: Speech 102.
321. DRAMATIC READING AND PLATFORM ART. 3 hrs.
Oral interpretation with emphasis on public performance.
PR: Speech 320.
- 325-326. INTERCOLLEGIATE DEBATE. 1-1 hrs.
Continuation of 225-226.
PR: Permission of instructor.
331. RADIO-TELEVISION ANNOUNCING AND NEWSCASTING. 3 hrs. II.
Specialized training in the interpretative skills of announcing and newscasting.
332. RADIO AND TELEVISION CONTINUITY WRITING. 2 hrs. I.
350. SPEECH FOR TEACHERS. 3 hrs. I, II.
Speech improvement for the teacher; techniques for the improvement of the speech of others. A study of deviations from normal speech.

360. RADIO, TELEVISION, AND SOCIETY. 2 hrs. II.
The unusual effects of these agents upon society and their place in modern communications.
403. PLAY DIRECTION. 3 hrs. I.
Primarily for those who will produce plays in schools, churches, and communities.
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.
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. SPEECH CORRECTION. 3 hrs. I, II.
Survey of the field with emphasis on the causes, symptoms, and treatment of articulation and voice disorders.
420. SPEECH CORRECTION, ADVANCED. 3 hrs.
Study of the neurophysiological mechanism for speech production; embryology pertinent to cleft lip and palate; speech after laryngectomy.
PR: Speech 418.
421. SPEECH CORRECTION, VOICE SCIENCE. 2 hrs.
Study of the anatomical and physiological characteristics of the normal speech mechanism.
422. SPEECH CORRECTION, PSYCHOGENIC DISORDERS. 3 hrs.
Principles and methods of understanding human behavior, both normal and abnormal, with special reference to stuttering.
PR: Speech 418.
423. SPEECH CORRECTION, CEREBRAL PALSY, AND APHASIA. 3 hrs.
Study of the causes, symptoms, and treatment of speech disorders due to brain damage.
PR: Speech 420.
424. SPEECH CORRECTION, DIAGNOSTIC PROCEDURES. 3 hrs.
Theory and practice of diagnosis in the various speech disorders; observation as well as practice in evaluating defective speech.
PR: Speech 420.
426. SPEECH CORRECTION, CLINICAL PRACTICE. 3 hrs.
Supervised practice in the diagnosis and treatment of speech problems.
PR: Speech 460, three classes in Speech Correction, and consent of instructor.

427. **SPEECH CORRECTION, ADVANCED CLINICAL PRACTICE.** 2 hrs.
Advanced supervised practice for those interested in clinical positions.
PR: Speech 426.
431. **RADIO AND TELEVISION PRODUCTION.** 3 hrs. I.
Radio and television techniques: programming, announcing, and acting.
432. **USE OF RADIO AND TELEVISION IN THE CLASSROOM.** 3 hrs.
For those entering public relations, elementary, or high school teaching.
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.
439. **PHONETICS.** 3 hrs.
Introduction to the science of speech sounds; study of the phonetic alphabet and practice in broad transcription. Formerly, 339.
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.
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.
450. **THE DIRECTION OF SPEECH ACTIVITIES.** 3 hrs. II.
For those responsible for extra-curricular speech: debate, extempore speaking, oral reading, discussion, oratory.
460. **AUDIOLOGY.** 3 hrs.
Analysis of hearing losses, including causes, symptoms, accompanying adjustment problems, and retraining principles.
461. **AUDIOLOGY, AURAL SCIENCE.** 2 hrs.
Anatomy and physiology of the hearing mechanism.
462. **AUDIOLOGY, TESTING.** 3 hrs.
Techniques and interpretation of auditory measurement; selection and usage problems of hearing aids.
PR: 460.

463. AUDIOLOGY, LIP READING. 3 hrs.
Principles and methods of teaching lip reading to the hearing handicapped.
PR: 460 and consent of instructor.
464. AUDIOLOGY, METHODS OF AUDITORY TRAINING. 3 hrs.
Principles and methods of auditory training with the hearing handicapped.
PR: 460 and consent of instructor.
466. AUDIOLOGY, CLINICAL PRACTICE. 2 hrs.
Supervised practice with the hearing handicapped.
PR: 418, 2 classes in Audiology, and consent of instructor.
467. AUDIOLOGY, ADVANCED CLINICAL PRACTICE. 3 hrs.
Continued supervised practice in therapy procedures for the hearing handicapped.
PR: 466.
- 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 Honors credit. Refer to page 47 for rules and general information.

UNIVERSITY HONORS

- 395H-396H. INTERDISCIPLINARY HONORS. 2-2 hrs.
A seminar 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 sophomores, juniors, and seniors in the three undergraduate colleges. Students are selected by the Honors Seminar Committee.
PR: 3.5 average.

ZOOLOGY

COLLEGE OF ARTS AND SCIENCES

(Division of Sciences)

Professors Green, Edeburn, Fisher

211. GENERAL ZOOLOGY. 4 hrs. I, II, S.
Important biological principles of structure, function, growth, development and inheritance applied to man and the higher animals.
LF: \$3.00. 2 lectures - 4 lab.
212. ADVANCED GENERAL ZOOLOGY. 4 hrs. I, II, S.
Classification, structure and relationships of the important animal phyla. LF: \$5.00. 2 lectures - 4 lab.
PR: Zoology 211.
225. HUMAN BIOLOGY. 4 hrs.
Structure and function of the human organism. LF: \$2.00.
2 lectures - 4 lab.

300. HISTOLOGY. 4 hrs. II.
Microscopic study of vertebrate tissues. LF: \$5.00. 2 lectures - 4 lab.
PR: Zoology 212.
301. VERTEBRATE EMBRYOLOGY. 4 hrs. I.
Vertebrate development based chiefly on frog, chick and pig embryos. LF: \$5.00. 2 lectures-4 lab.
PR: Zoology 212.
302. COMPARATIVE VERTEBRATE ANATOMY. 4 hrs. II, S.
Principles of structure, function and relationships of vertebrate systems with emphasis on the dogfish and cat. LF: \$5.00. 2 lectures - 4 lab.
PR: Zoology 212.
307. GENETICS. 4 hrs. I, S.
The fundamental principles and mechanisms of inheritance including their human application. LF: \$2.00. 3 lectures - 2 lab.
PR: Four hours biological sciences.
315. HUMAN ANATOMY AND PHYSIOLOGY. 4 hrs. II, S.
The structure and functions of the human body. LF: \$5.00. 3 lectures - 2 lab.
PR: Zoology 211 or equivalent.
402. VERTEBRATE NATURAL HISTORY. 3 hrs. II, S.
The origin, classification, life histories, habits and distribution of fishes, amphibians, reptiles and mammals. LF: \$5.00. 1 lecture - 4 lab.
PR: Zoology 212.
403. ENTOMOLOGY. 3 hrs.
Anatomy, classification, life histories and economic importance of representative insects. LF: \$2.00. 1 lecture - 4 lab.
408. ORNITHOLOGY. 3 hrs. II, S.
Identification, distribution, migration and breeding activities of birds. LF: \$2.00. 2 lectures - 2 lab.
413. PRINCIPALS OF ORGANIC EVOLUTION. 2 hrs. S.
The progress of animal life through time with a discussion of known causes.
PR: Zoology 212.
- 450-451-452. SPECIAL PROBLEMS. 1 to 3 hrs. each. I, II, S.
By permission of department chairman.

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Other types used are Linotype
Trade Gothic and Ludlow Tempo.*

*Paper is 60-pound Mead Flat White
English Finish.*

*Cover stock is 65-pound Beckett White
Antique Cover.*

*Text printed by letterpress,
cover by offset lithography.*

*Composition and printing by
Standard Printing & Publishing Company,
Huntington, West Virginia.*

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(All administrative offices are located in Old Main)

| | |
|---|----------|
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| Admissions | 105 |
| Adult Education | 107 |
| Alumni | 129 |
| Applied Science College | 116 |
| Arts and Sciences College | 115 |
| Bookstore | Basement |
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| Duplicating Department | Basement |
| Graduate School | 111 |
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