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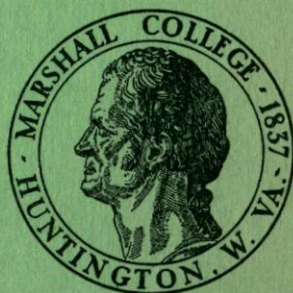


# MARSHALL COLLEGE

## *Bulletin*

College of Arts and Sciences

ANNOUNCEMENTS 1952 - 1954





This bulletin of Marshall College contains information of general value to high school graduates and other prospective students and their parents. Complete information as to entrance fees, living conditions, requirements for degrees in either of the colleges, and a brief statement of the courses of study offered are given. This bulletin is sent on request and without cost.

Marshall College is accredited by the North Central Association of Colleges and Secondary Schools, and the American Association of Colleges For Teacher Education; is a member of the Association of American Colleges, and of the American Council on Education, and is approved by the American Association of University Women.

For Non-Resident tuition, see Fees.

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# MARSHALL COLLEGE

(FOUNDED 1837)

## BULLETIN



VOLUME XXXV NO. 4

**THE COLLEGE OF ARTS AND SCIENCES**



**ANNOUNCEMENTS FOR 1952-1953**

**ANNOUNCEMENTS FOR 1953-1954**



**APRIL 1, 1952**

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# WEST VIRGINIA BOARD OF EDUCATION

## CHARLESTON, WEST VIRGINIA

|  | <i>Term Expires</i> |
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| THELMA BRAND LOUDIN, <i>Vice President</i> , Fairmont.....                 | 1955                |
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The West Virginia Board of Education has charge of the educational, administrative, financial and business affairs of Marshall College.

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# COLLEGE CALENDAR

## 1952-1953

### FIRST SEMESTER 1952-1953

|  |   |
|--|---|
| September 8-13.....                                | Freshman Orientation and Registration               |
| September 12, Friday 7:00-9:00 P. M.....           | Registration Part-time<br>and Evening Students      |
| September 15.....                                  | Classes Begin                                       |
| September 27.....                                  | Last Day of Registration                            |
| November 26, Wed. noon—Dec. 1, Mon. 8:00 A. M..... | Thanksgiving Recess                                 |
| December 8.....                                    | Advance Registration Graduates, Seniors and Juniors |
| December 20, Sat. Noon—Jan. 5, Mon. 8:00 A. M..... | Christmas Recess                                    |
| January 5.....                                     | Advance Registration Sophomores and Freshmen        |
| January 26-31.....                                 | Examination Week                                    |
| January 31.....                                    | Semester Ends                                       |

### SECOND SEMESTER 1952-53

|  |   |
|--|---|
| February 2-4.....                                      | Orientation and Registration                |
| February 5.....  | Classes Begin                               |
| February 6.....  | Registration Part-time and Evening Students |
| February 14.....                                       | Last Day of Registration                    |
| April 2, Thursday Noon—April 7, Tuesday 8:00 A. M..... | Easter Recess                               |
| May 4.....   | Beginning Advance Registration              |
| May 23-30.....   | Examination Week                            |
| May 31.....  | Baccalaureate                               |
| June 1, Monday.....                                    | Commencement                                |

### SUMMER SESSION 1953

#### FIRST TERM

|              |                          |
|--------------|--------------------------|
| June 2.....  | First Term Begins        |
| June 6.....  | Last Day of Registration |
| July 10..... | First Term Ends          |

#### SECOND TERM

|                |                          |
|----------------|--------------------------|
| July 13.....   | Second Term Begins       |
| July 18.....   | Last Day of Registration |
| August 21..... | Commencement             |
| August 21..... | Term Ends                |



# COLLEGE CALENDAR

1953-1954

## FIRST SEMESTER 1953-54

|   |   |
|---|---|
| September 7-12.....                                 | Freshman Orientation and Registration               |
| September 11, Friday 7:00-9:00 P. M.....            | Registration Part-time<br>and Evening Students      |
| September 14.....                                   | Classes Begin                                       |
| September 26.....                                   | Last Day of Registration                            |
| November 25, Wed. noon—Nov. 30, Mon. 8:00 A. M..... | Thanksgiving Recess                                 |
| December 7.....                                     | Advance Registration Graduates, Seniors and Juniors |
| December 19, Sat. Noon—Jan. 4, Mon. 8:00 A. M.....  | Christmas Recess                                    |
| January 4.....                                      | Advance Registration Sophomores and Freshmen        |
| January 25-30.....                                  | Examination Week                                    |
| January 30.....                                     | Semester Ends                                       |

## SECOND SEMESTER 1953-54

|  |                                    |
|--|------------------------------------|
| February 1-3.....  | Orientation and Registration       |
| February 4.....  | Classes Begin                      |
| February 5, Friday 7:00-9:00 P. M.....                   | Registration of Part-time Students |
| February 13.....   | Last Day of Registration           |
| April 15, Thursday Noon—April 20, Tuesday 8:00 A. M..... | Easter Recess                      |
| April 26.....  | Beginning Advance Registration     |
| May 22-29.....   | Examination Week                   |
| May 30.....  | Baccalaureate                      |
| May 31.....  | Commencement                       |

## SUMMER SESSION 1954

### FIRST TERM

|             |                          |
|-------------|--------------------------|
| June 1..... | First Term Begins        |
| June 5..... | Last Day of Registration |
| July 9..... | Term Ends                |

### SECOND TERM

|                |                          |
|----------------|--------------------------|
| July 12.....   | Second Term Begins       |
| July 17.....   | Last Day of Registration |
| August 20..... | Commencement             |
| August 20..... | Second Term Ends         |

## OFFICERS OF ADMINISTRATION

|   |  |
|---|--|
| STEWART HAROLD SMITH, B. S., M. A., Ph. D.....  | <i>President</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<br/>and Sciences</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>   |
| <sup>2</sup> DAROLD LEE SHUTT, A. B., M. A..... | <i>Dean of Men</i>   |
| OTIS H. MILAM, JR., B. S.....                   | <i>Acting Dean of Men</i>                                    |
| LUTHER E. BLEDSOE, A. B., M. A.....             | <i>Registrar and Director of Admissions</i>                  |
| VETA LEE SMITH, A. B., M. A.....                | <i>College Secretary</i>                                     |
| FRED R. SMITH, A. B.....                        | <i>Comptroller and Business Manager</i>                      |
| <sup>3</sup> PAUL H. COLLINS, A. B., M. A.....  | <i>Director, Educational Research<br/>and Field Services</i> |
| ROSA V. OLIVER, A. B., Library Certificate..... | <i>Librarian</i>   |



## THE FACULTY

### PROFESSORS

- JAMES J. BARRON, *Professor of Mathematics*, 1946\*.  
Ph. D. 1934, University of Wisconsin; post-doctorate study, Yale University, Brown University
- JOHN FRANK BARTLETT, *Dean of the College of Arts and Sciences and Professor of Chemistry*, 1932  
Ph. D. 1932, West Virginia University; post-doctorate study, University of Zurich, University of Edinburgh, and Technische Hochschule in Munich
- RICHARD LEONARD BEARD, *Professor of Education*, 1948  
Ph. D. 1943, Ohio State University.
- ROBERT LLOYD BECK, *Professor of Philosophy*, 1934  
Ph. D. 1931, Cornell University
- ROBERT LEE VERN BRITTON, *Professor of Geography*, 1930  
M. S. 1930, University of Chicago; graduate study, University of Chicago, Ohio State University
- JACK RICHARD BROWN, *Professor of English*, 1948  
Ph. D. 1937, Northwestern University
- ELIZABETH COMETTI, *Professor of History*, 1948  
Ph. D. 1939, University of Virginia; post-doctorate study, Columbia University
- HOLLIE CLAYTON DARLINGTON, *Professor of Biology*, 1930  
Ph. D. 1942, University of Chicago
- LESLIE MARTZ DAVIS, *Professor of Geography*, 1939  
Ph. D. 1935, University of Chicago
- <sup>1</sup> CONLEY HALL DILLON, *Professor of Political Science*, 1934  
Ph. D. 1936, Duke University
- RALPH M. EDEBURN, *Professor of Zoology*, 1945  
Ph. D. 1938, Cornell University
- NORMAN BAYARD GREEN, *Professor of Zoology*, 1938  
Ph. D. 1952, Ohio State University.
- ARVIL E. HARRIS, *Dean of the Graduate School and Professor of Political Science* 1936.  
Ph. D. 1936, State University of Iowa
- HAROLD MANSFIELD HAYWARD, *Professor of Sociology*, 1938  
Ph. D. 1937, Clark University
- HERSCHEL HEATH, *Professor of History*, 1947  
Ph. D. 1933, Clark 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
- VERNON DAKE JOLLEY, *Professor of Business Administration*, 1949  
M. B. A. 1935, University of Michigan; graduate study, University of Chicago

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



- CHARLES LAWRENCE KINGSBURY, *Professor of Music*, 1950  
Ed. D. 1945, Indiana University
- KENNETH KARL LOEMKER, *Professor of Psychology*, 1930  
Ph. D. 1941, University of Chicago
- AMBROSE EVERETT McCASKEY, *Professor of Engineering*, 1936  
M. S. C. E. 1936, West Virginia University; graduate study, University of Michigan
- DONALD C. MARTIN, *Professor of Physics*, 1943  
Ph. D. 1936, Cornell University
- CHARLES HILL MOFFAT, *Professor of History*, 1946  
Ph. D. 1946, Vanderbilt University
- PAUL N. MUSGRAVE, *Professor of Education and Director of Student Teaching in Secondary Education*, 1938  
Ph. D. 1936, West Virginia University
- WILLIAM PAGE PITT, *Professor of Journalism*, 1926  
M. S. J. 1930, Columbia University
- ALLEN OTIS RANSON, *Professor of Speech*, 1931  
M. A. 1935, University of Wisconsin
- JAMES TULL RICHARDSON, *Professor of Sociology*, 1949  
Ph. D. 1943, University of Missouri
- RUTH ROBINSON, *Professor of Physical Education*, 1932  
M. A., 1928, Columbia University
- RUSSELL IRWIN ROUDEBUSH, *Professor of Education and Director of Secondary Education*, 1921  
M. A. 1921, Ohio State University; graduate study, University of Michigan
- ORA E. RUMPLE, *Professor of Chemistry*, 1947  
Ph. D. 1937, Indiana University
- ALLEN W. SCHOLL, *Professor of Chemistry*, 1948  
Ph. D. 1934, Pennsylvania State College
- ROBERT PORTER SECHLER, *Professor of English*, 1946  
Ph. D. 1931, University of Pennsylvania
- RUSSELL B. SMITH, *Professor of Education*, 1949  
Ph. D. 1939, Ohio State University
- HORACE GRESHAM TOOLE, *Professor of History*, 1925  
Ph. D. 1932, University of Pennsylvania
- FLORENCE H. VanBIBBER, *Professor of Psychology*, 1937  
Ph. D. 1935, University of Arizona; post-doctorate study, University of Chicago
- KATHERINE WEHLER, *Professor of English*, 1922  
M. A. 1921, Columbia University; graduate study, Columbia University, Oxford University
- LUCY ADELE WHITSEL, *Professor of Latin and Greek*, 1929  
Ph. D. 1929, University of Wisconsin; post-doctorate study, American Academy at Rome, University of Wisconsin
- ROY CLEO WOODS, *Professor of Education*, 1927  
Ph. D. 1927, State University of Iowa

## ASSOCIATE PROFESSORS

- CURTIS FRANKLIN BAXTER, *Associate Professor of English*, 1936  
M. A. 1936, Washington and Jefferson College; graduate study, New York University
- CHARLOTTE E. BERRYMAN, *Associate Professor of Physical Education*, 1927  
M. A. 1926, Columbia University; graduate study, University of Wisconsin, Columbia University
- GEORGE BRUCE CORRIE, *Associate Professor of Economics*, 1948  
M. A. 1941, University of North Carolina
- ALICE GREY DORWORTH, *Associate Professor of Business Administration and Director of Retail Training*, 1946  
M. Ed. 1942, University of Pittsburgh; graduate study, University of Pittsburgh, Temple University, New York University
- FREDERICK A. FITCH, JR., *Associate Professor of Physical Education*, 1930  
M. A. 1932, New York University; graduate study, Columbia University, New York University
- RUTH MARION FLOWER, *Associate Professor of English*, 1926  
M. A. 1929, University of Michigan; graduate study, University of Washington, University of Michigan
- JUAN C. FORS, *Associate Professor of Spanish*, 1931  
A. B. 1921, Valparaiso University; graduate study, University of Chicago
- MIRIAM PEARL GELVIN, *Associate Professor of Music*, 1940  
M. Ed. 1940, University of Cincinnati; M. Mus. 1940, Cincinnati Conservatory of Music; graduate study, Columbia University, Northwestern University
- CLEO MARGARET GRAY, *Associate Professor of Home Economics*, 1947  
M. S. 1927, University of Wisconsin; graduate study, University of Wisconsin, Iowa State College, Columbia University, University of Southern California
- OTTO ANDREW GULLICKSON, *Associate Professor of Physical Education*, 1930  
M. A. 1926, Columbia University; graduate study, American University
- CHARLES PRICE HARPER, *Associate Professor of Political Science*, 1946  
Ph. D. 1937, The Johns Hopkins University
- RAY WAYNE HUGOBOOM, *Associate Professor of Music*, 1950  
M. A. 1941, University of Wisconsin; graduate study, Indiana University, Fontainebleau Conservatory, Conservatoire de Paris, France
- MELVIN PARSONS LOY, *Associate Professor of Biology*, 1926  
M. A. 1931, Ohio State University
- LOUISE McDONOUGH, *Associate Professor of Physical Education*, 1929  
M. A. 1929, Columbia University; graduate study, Columbia University, State University of Iowa
- \* JOHN LEWIS MARTIN, *Associate Professor of Spanish*, 1935  
Ph. D. 1940, University of Pittsburgh
- GEORGE EDWARD MUNN, *Associate Professor of Economics*, 1950  
M. A. 1939, University of Wisconsin; graduate study, University of Wisconsin.
- ALMA NEASE NOBLE, *Associate Professor of French and Latin*, 1941  
Ph. D. 1938, Ohio State University



- CLAYTON R. PAGE, JR., *Associate Professor of Speech*, 1946  
M. A. 1939, The Pennsylvania State College; M. A. 1940, Baylor University; graduate study, University of Southern California, State University of Iowa
- EDWARD LEWIS PLYMALE, *Associate Professor of Botany*, 1946  
Ph. D. 1942, State University of Iowa
- JOE DONALD POLLITT, *Associate Professor of English*, 1936  
M. A. 1935, Duke University; graduate study, Ohio State University, University of Missouri, Marshall College
- RALPH DAVID PURDY, *Associate Professor of Education*, 1950  
Ph. D. 1949, Ohio State University
- MYRTLE MacDANNALD ROUSE, *Associate Professor of Home Economics*, 1936  
M. A. 1934, Columbia University; graduate study, Columbia University
- JOHN LAWRENCE STENDER, *Associate Professor of English*, 1929  
M. A. 1938, West Virginia University; graduate study, Duke University
- LINDLEY EDWARD VANDERZALM, *Associate Professor of Education*, 1928  
M. A. 1922, Columbia University; graduate study, Columbia University, University of Michigan
- FRANCES WHELPLEY, *Associate Professor of Chemistry*, 1946  
Ph. D. 1931, Columbia University
- MARY ANN WILLIAMSON WHITE, *Associate Professor of English*, 1934  
M. A. 1937, University of Kentucky; graduate study, University of Kentucky, The Johns Hopkins University, Syracuse University
- DANIEL BANKS WILBURN, *Dean of the Teachers College and Associate Professor of Education*, 1947  
Ed. D. 1945, The George Washington University

## ASSISTANT PROFESSORS

- DOROTHY BERRY BRAGONIER, *Assistant Professor of Mathematics*, 1927  
M. A. 1939, Columbia University
- PHILIP CAPLAN, *Assistant Professor of Speech*, 1947  
M. F. A. 1947, Yale University; graduate study, Stanford University
- ARTHUR SIDNER CARPENTER, *Assistant Professor of Art*, 1951  
M. A. Ed. 1947, The Pennsylvania State College
- SAM E. CLAGG, *Assistant Professor of Geography*, 1948  
M. A. 1947, Marshall College; graduate study, University of Kentucky
- JOHN W. CREIGHTON, *Assistant Professor of Music*, 1945  
M. A. 1942, Northwestern University; graduate study, St. Louis University, Juilliard School of Music
- EDWIN A. CUBBY, *Assistant Professor of Social Studies*, 1949  
M. A. 1941, Syracuse University; graduate study, Syracuse University
- CAROLYN FORE DWIGHT, *Assistant Professor of Business Administration*, 1938  
M. B. A. 1938, Ohio State University
- IRENE CLARK EVANS, *Assistant Professor of Business Administration*, 1939  
M. A. 1940, Columbia University; graduate study, University of Chicago
- MADELEINE HOFFMAN FEIL, *Assistant Professor of Clinical Psychology*, 1946  
Ph. D. 1948, Ohio State University
- DOROTHY A. FISHER, *Assistant Professor of Zoology*, 1946  
Ph. D. 1942, Cornell University; post-doctorate study, University of North Carolina, Cornell University



- RUBY CALVERT FOOSE, *Assistant Professor of Home Economics*, 1946  
M. A. 1940, Ohio State University; graduate study, University of Tennessee
- MARY ALICE GOINS, *Assistant Professor of Mathematics*, 1946  
M. A. 1933, University of Michigan; graduate study, University of Chicago, University of Kentucky, Purdue University
- REX C. GRAY, *Assistant Professor of Education and Director of Student Teaching in Elementary Education and Principal of the Elementary Laboratory School*, 1948  
M. A. 1941, West Virginia University; graduate study, University of Minnesota
- GEORGE JAMES HARBOLD, *Assistant Professor of Speech*, 1947  
M. A. 1947, University of Florida; graduate study, University of Missouri, Marshall College
- HUNTER S. HARDMAN, *Assistant Professor of Mathematics*, 1946  
M. S. 1940, University of Chicago; graduate study, Ohio State University, University of Pittsburgh
- <sup>2</sup> HELEN BRANDEBURY HARVEY, *Assistant Professor of English*, 1942  
M. A. 1941, Marshall College; graduate study, Columbia University
- HENRIETTA HEPBURN, *Assistant Professor of English*, 1946  
M. A. 1919 Indiana University; graduate study, University of California, University of Chicago
- CLARKE FREAS HESS, *Assistant Professor of Education*, 1951  
M. A. 1947, Clark University; graduate study, University of Pennsylvania
- <sup>3</sup> JOHN HOLLAND HOBACK, *Assistant Professor of Chemistry*, 1945  
Ph. D. 1945, West Virginia University
- BEN WALTER HOPE, *Assistant Professor of Speech*, 1947  
M. A. 1947, State University of Iowa; graduate study, Northwestern University, The Pennsylvania State College, University of Denver
- WILLIAM ANTHONY HUEBNER, *Assistant Professor of Business Administration*, 1951  
M. A. 1949, New York University; graduate study, New York University
- LAVELLE THOMPSON JONES, *Assistant Professor of Music*, 1947  
M. A. 1942, George Peabody College for Teachers
- ALFRED P. LANEGGER, *Assistant Professor of Music*, 1947  
M. M. 1947, Syracuse University
- VIRGINIA ELIZABETH LEE, *Assistant Professor of Journalism*, 1930  
M. A. 1942, Marshall College; graduate study, University of Wisconsin, University of Minnesota
- CARL LEIDEN, *Assistant Professor of Political Science*, 1949  
Ph. D. 1949, University of Iowa
- JOSEPH M. LICHTENSTEIN, *Assistant Professor of Psychology*, 1946  
M. A. 1940, Fordham University; graduate study, Columbia University, Rutgers University, University of Cincinnati
- JULIUS LIEBERMAN, *Assistant Professor of German*, 1946  
Ph. D. 1943, University of Cincinnati
- GRACE EUGENIA ROE McMULLEN, *Assistant Professor of Music*, 1945  
M. A. 1947, Columbia University; graduate study, Juilliard School of Music
- CARL B. MILLER, *Assistant Professor of Business Administration*, 1946  
M. A. 1942, Northwestern University; graduate study, University of Kentucky, University of Colorado
- HOWARD LEONARD MILLS, *Assistant Professor of Botany*, 1951  
Ph. D. 1951, State University of Iowa

- WOODROW MORRIS, *Assistant Professor of Education*, 1950  
M. Ed. 1941, Duke University; graduate study, Ohio State University
- REVA BELLE NEELY, *Assistant Professor of Home Economics*, 1946  
M. E. 1946, Colorado Agricultural and Mechanical College
- THOMAS S. O'CONNELL, *Assistant Professor of Music*, 1948  
M. Mus. 1947, University of Michigan
- JEANNE OWEN, *Assistant Professor of Business Administration*, 1947  
M. C. S. 1945, Indiana University; graduate study, University of Colorado
- VIRGINIA N. PARRISH, *Assistant Professor of French*, 1947  
M. A. 1940, University of Kentucky; graduate study, University of Kentucky
- WALTER H. PERL, *Assistant Professor of German*, Part-time, 1948  
Ph. D. 1936, University of Zurich
- GERALD R. PHILLIPS, *Assistant Professor of Social Studies*, 1948  
M. A. 1947, University of Minnesota; graduate study, University of Minnesota
- \*ALVA WENONAH RICE, *Assistant Professor of English*, 1946  
M. A. 1946, Indiana University
- VIRGINIA RIDER, *Assistant Professor of Education, High School English*, 1937  
M. A. 1933, University of Michigan
- KATHLEEN ROBERTSON, *Assistant Professor of Speech*, 1947  
M. A. 1936, Northwestern University; graduate study, Northwestern University
- DOROTHY WILHELMINA SEABERG, *Assistant Professor of Business Administration*, 1947  
M. S. 1947, University of North Carolina; graduate study, University of Colorado, University of Minnesota
- DAVID P. STEWART, *Assistant Professor of Geology*, 1949  
M. S. 1948, Michigan State College; graduate study, West Virginia University, Marshall College
- PAUL D. STEWART, *Assistant Professor of Political Science*, 1948  
Ph. D. 1948, Duke University
- SAMUEL TURLEY STINSON, *Assistant Professor of Engineering*, 1940  
M. S. E. 1950, University of Michigan
- ADELLA E. STROUSS, *Assistant Professor of Home Economics*, 1943  
M. S. 1941, Cornell University; graduate study, Iowa State College, Ohio State University, University of Tennessee
- MARY LOUISE WASHINGTON, *Assistant Professor of English*, 1946  
M. A. 1936, West Virginia University; graduate study, University of Pennsylvania
- LOUISE SIRES WHITE, *Assistant Professor of Education*, 1948  
M. Ed. 1945, University of Missouri
- HAROLD LEE WILLEY, *Assistant Professor of Physical Education*, 1946  
M. A. 1948, Columbia University; graduate study, Colorado State College, University of Tennessee
- NELSON TYLER WILLIAMS, *Assistant Professor of Chemistry*, 1950  
Ph. D. 1948, Syracuse University
- PORTER S. WOOD, *Assistant Professor of Business Administration*, 1950  
M. A. 1950, University of Kentucky
- BERNICE F. WRIGHT, *Assistant Professor of Mathematics*, 1946  
M. A. 1929, University of Michigan; graduate study, University of Washington



## INSTRUCTORS

- EDITH WILSON AMICK, *Instructor in Education, Grades 1 and 2*, 1913  
M. A. 1946, Marshall College
- JULIA ELIZABETH ADKINS, *Instructor in Education*, 1950  
M. A. 1943, Ohio State University
- ADDISON ROBY BARKER, JR., *Instructor in English*, 1950  
M. A. 1950, University of North Carolina
- EARL SCOTT BLANKENSHIP, *Instructor in Education*, 1949  
M. A. 1948, Ohio State University; graduate study, Ohio State University
- FRANCES W. BURDETTE, *Instructor in Sociology*, Part-time, 1947  
M. A. 1946, Ohio State University; graduate study, Ohio State University
- RAYMOND D. CHEYDLEUR, *Instructor in Speech*, 1949  
M. S. 1949, University of Wisconsin
- EUNICE S. COOK, *Instructor in Education*, 1943  
M. S. 1943, West Virginia University; graduate study, University of Minnesota
- WALTER S. CORRIE, JR., *Instructor in Sociology*, 1949  
M. A. 1948, Baylor University; graduate study, Cornell University
- DONALD D. COX, *Instructor in Science Education*, 1950  
M. A. 1950, Marshall College; graduate study, Ohio State University
- NELLIE S. DAILEY, *Instructor in Education*, 1946  
M. A. 1943, Colorado State College of Education; graduate study; University of Southern California
- FLORENCE A. DAVIS, *Instructor in Education, Grades 3 and 4*, 1946  
M. A. 1941, Marshall College
- JOANNE DRESCHER, *Instructor in Music*, 1950  
M. Mus. 1948, Indiana University
- LYELL V. DOUTHAT, *Instructor in Education*, 1926  
M. A. 1936, Ohio State University
- WALTER C. FELTY, *Instructor in Education and Social Studies and Director of Audio-Visual Aids*, 1950  
M. A. 1950, Marshall College; graduate study, University of Kentucky, Indiana University
- S HUGH FITCH, *Instructor in English and Spanish*, 1950  
M. A. 1950, University of New Mexico
- ST. ELMO FOX, *Instructor in Music*, 1918  
B. Mus. 1932, Cincinnati Conservatory of Music
- ROBERT RAY GALFORD, *Instructor in Chemistry*, 1951  
M. S. 1951, Marshall College
- <sup>3</sup> MEDARDO GUTIERREZ, JR., *Instructor in Spanish*, 1948  
M. A. 1947, University of Michigan; graduate study, University of Michigan
- ROBERT WILLIAM GUTZWILLER, *Instructor in Mathematics*, 1946  
M. A. 1947, Marshall College; graduate study, University of Kentucky
- INA WOODFORD HART, *Instructor in Education*, 1928  
M. A. 1936, West Virginia University



- HOWARD LEROY HOOD, *Instructor and Assistant Football Coach*, 1950  
B. S. 1949, Mount Union College; graduate study, Kent State University
- MAE NECESSARY HOUSTON, *Instructor in Education, Grades 5 and 6*, 1951  
M. A. 1950, Marshall College
- LEO V. IMPERI, *Instructor in Music*, 1952  
M. A. 1951, Columbia University
- <sup>2</sup> LOUIS B. JENNINGS, *Instructor in Bible and Religion*, 1948  
B. D. 1945, Crozer Theological Seminary; graduate study, University of Chicago, University of Pennsylvania
- ERNESTINE T. JONES, *Instructor in English*, 1948  
M. A. 1948, Marshall College
- COLONEL RUFUS L. LAND, *Instructor in Economics*, 1946  
M. A. 1948, Marshall College; graduate study, University of Virginia, Ohio State University
- <sup>3</sup> JAMES A. McCUBBIN, *Instructor in Speech*, 1948  
M. A. 1948, Western Reserve University
- WILLIAM MATTHEWS, *Instructor in Bible and Religion*, 1951  
D. B. 1947, New Brunswick Theological Seminary; graduate study, University of Chicago
- EVA LOUISE MILLER, *Instructor in Business Administration* 1946  
M. A. 1942, Columbia University
- DORA MAY MITCHELL, *Instructor in Education*, 1951  
M. A. 1939, George Peabody College; graduate study, George Peabody College
- <sup>3</sup> CLARENCE B. MORRISON, *Instructor in Education*, 1946  
M. S. 1947, Marshall College; graduate study, Ohio State University, University of Chicago, University of North Carolina
- LAWRENCE HOWARD NUZUM, *Instructor in Education, and Principal of the Laboratory High School*, 1947  
M. A. 1939, West Virginia University; graduate study, University of Tennessee
- WILLARD M. PEDERSON, *Instructor and Football Coach*, 1950  
M. A. 1937, Western State College; graduate study, Colorado State College of Education, University of Mexico
- JAMES DONALD PERRY, *Instructor in Psychology*, 1950  
M. A. 1949, Marshall College; graduate study, Ohio State University
- WILBUR PURSLEY, JR., *Instructor in Music*, 1950  
M. Mus. 1950, Eastman School of Music
- MARY ELIZABETH RENSFORD, *Instructor in Education, Kindergarten*, 1949  
M. A. 1951, Marshall College
- MARTHA BOHART RUMMELL, *Instructor in Education, Grades 3 and 4*, 1938  
M. Ed. 1938, University of Cincinnati
- MELVIN GILLY SCARLETT, *Instructor in Journalism*, 1951  
M. A. 1951, University of Florida; graduate study, University of Tennessee
- CHARLES A. SCRIVNER, *Instructor in Engineering*, Part-time, 1946  
B. E. S. 1946, Marshall College; graduate study, University of Colorado

- BERKELEY R. SHAFER, *Instructor in Engineering*, 1943  
B. S. E. E. 1927, University of Michigan
- WILLIAM WILFRED SHIPE, *Instructor in Education*, 1950  
M. A. 1949, Ohio State University
- THELMA THOMS SMITH, *Instructor in Education, Grades 5 and 6*, 1950  
M. A. 1950, Marshall College
- JAMES STAIS, *Instructor in Spanish*, 1950  
M. A. 1950, University of Michigan; graduate study, New York University
- FRIEDA STARKEY, *Instructor in English*, 1946  
M. A. 1940, West Virginia University; graduate study, Marshall College.  
University of Pennsylvania
- SHIRLEY FOSTER STREEBY, *Instructor in Education*, 1945  
M. A. 1944, University of Wisconsin; graduate study, University of  
Southern California
- MARY LOUISE REINHEIMER TILLOTSON, *Instructor in Education*, 1950  
M. A. 1950, Ohio State University
- HARRIET WELLS TUCKER, *Instructor in Education*, 1945  
M. Ed. 1949, Ohio University
- \*GEORGE G. URIAN, *Instructor in Engineering*, 1947  
B. E. S. 1941, Marshall College; graduate study, Washington University
- HAROLD EUGENE WARD, *Instructor in Education*, 1950  
M. A. 1950, Marshall College
- \*FRANK DUDLEY WHITE, *Instructor in Mathematics*, 1946  
M. Ed. 1940, Duke University; graduate study, University of Kentucky
- MARTHA ZELNAK, *Instructor in Education, Grades 1 and 2*, 1950  
M. A. 1948, Marshall College

## LIBRARIES

## THE JAMES E. MORROW LIBRARY

|  |                     |
|--|---------------------|
| Margaret S. Bobbitt, B. S. L. S.....                 | Assistant Librarian |
| Jean Jackson Buchanan, B. S. L. S.....               | Assistant Librarian |
| Helen S. Jenkins, B. S. L. S.....                    | Assistant Librarian |
| Kathryn M. Kraybill, A. B., Library Certificate..... | Assistant Librarian |
| Sherwood Kirk, M. S. L. S.....                       | Assistant Librarian |
| Ruth K. Bosworth.....                                | Secretary           |
| Ruth Lenore Campbell.....                            | Clerk-Typist        |

## MARSHALL HIGH SCHOOL LIBRARY

|                             |           |
|-----------------------------|-----------|
| Leona H. Klipsch, A. B..... | Librarian |
|-----------------------------|-----------|

## ATHLETIC STAFF

|                                  |                       |
|----------------------------------|-----------------------|
| Robert A. Morris, Jr., M. A..... | Director of Athletics |
| Willard M. Pederson, M. A.....   | Head Football Coach   |
| Cam Henderson, A. B.....         | Basketball Coach      |
| Sam Clagg, M. A.....             | Assistant Coach       |
| Howard Hood, B. S.....           | Assistant Coach       |
| Patricia J. Luskey, A. B.....    | Secretary             |



## DEPARTMENT OF MILITARY SCIENCE AND TACTICS

WILLIAM P. O'NEAL, Lt. Colonel, *Professor of Military Science and Tactics*, 1951

WILLIAM J. HILLARD, Major, *Assistant Professor of Military Science and Tactics*, 1951

HARRY J. MCGINNESS, Captain, *Assistant Professor of Military Science and Tactics*, 1951

WALTER J. LAFFORD, Master Sergeant, *Sergeant Major and Instructor*, 1951

JOHN M. MILLER, Sergeant First Class, *Small Arms Instructor*, 1951

JAMES R. HOLLAND, *Military Property Custodian*, 1951

JOHN R. HART, Sergeant, *Assistant Military Property Custodian and Instructor*, 1951

## HEALTH SERVICE

\*Charles A. Hoffman, M. D. .... College Physician

\*\*Clara M. Iseley, M. D. .... College Physician

Margaret Lambert, R. N. .... Clinic Nurse

\* Resigned February 1, 1952

\*\* Effective February 1, 1952

## GRADUATE ASSISTANTS

JAMES R. CARSON, *Chemistry*, 1951

B. S. 1951, Marshall College

DAVID COBBLEDICK, *Chemistry*, 1951

B. S. 1951, Hampden-Sydney College

LYNN LEWIS, *Chemistry*, 1950

B. S. 1950, West Virginia Wesleyan College

JACKSON MCKINNEY, *Zoology*, 1951

A. B. 1951, Marshall College

JAMES MORRISON, *Chemistry*, 1950

B. S. 1951, Bethany College

PETER NEWALLIS, *Chemistry*, 1951

B. S. 1951, Marshall College

PETER SKAMANGAS, *Chemistry*, 1950

B. S. 1951, Marshall College

BERNARD WELCH, *Botany*, 1951

B. S. 1949, Maryville College

## RESEARCH FELLOWS

LEWIS A. GUGLIEMILLI, *Chemistry*

B. S. 1951, The Pennsylvania State College

DOROTHY LEE HAGAMAN, *Chemistry*

B. S. 1951, Marshall College

## NOTES

<sup>1</sup> On leave 1951-52, Office of Price Stabilization, Washington, D. C.

<sup>2</sup> On leave, Graduate Study

<sup>3</sup> On Military Leave

<sup>4</sup> On leave, Fulbright Fellowship

<sup>5</sup> On leave, Ford Foundation Fellowship

## ADMINISTRATIVE ASSISTANTS

## OFFICE OF THE PRESIDENT

Adrienne Arnett, A. B.....Secretary

## OFFICE OF THE TEACHERS COLLEGE

Ethelene Holley, A. B.....Secretary

Elizabeth Anne Moss.....Stenographer

## OFFICE OF THE COLLEGE OF ARTS AND SCIENCES

Sylvia Wilson Summers.....Secretary

## OFFICE OF THE GRADUATE SCHOOL

Clara Mae Hall, M. A.....Secretary

## OFFICE OF THE DEAN OF WOMEN

Mildred Klein Heller, A. B.....Secretary

Golda E. Dakan.....Hostess, College Hall

Grace B. Lauhon.....Hostess, Laidley Hall

Virginia Allison Wilson.....Greenhouse

## OFFICE OF THE DEAN OF MEN

Eleanor McAlister Crews.....Secretary

Nancy B. Stiff, A. B.....Student Employment Clerk

Frances W. Burdette, M. A.....Hostess, Hodges Hall

## OFFICE OF THE REGISTRAR AND DIRECTOR OF ADMISSIONS

L. Marie White, M. A.....Assistant Registrar

Anna Margaret Hoyer, M. A.....Acting Assistant Director of Admissions

Helen Harlow, M. A.....Statistician

Elma Frances Sines, A. B.....Secretary, Registrar

Mildred Phyllis Smith, A. B.....Secretary, Acting Assistant Director of  
Admissions

Janice C. Frampton, A. B.....Recorder

Betty Tyson Burnette, A. B.....Transcript Clerk

Marilyn Brown Simpkins.....Transcript Clerk

Virginia S. Beard.....Veterans Clerk

Betty Jane Clark Stough.....Clerk

## OFFICE OF THE COLLEGE SECRETARY

Mary Margaret Maynor, B. S.....Secretary



## OFFICE OF THE COMPTROLLER AND BUSINESS MANAGER

|                                  |  |
|----------------------------------|--|
| Ethel M. Martin.....             | <i>Secretary</i>                             |
| Louise Thompson.....             | <i>Treasurer</i>                             |
| Joan Somerville Shorter.....     | <i>Cashier</i>                               |
| Vida M. Franklin.....            | <i>Bookkeeper</i>                            |
| Betty Casto .....                | <i>Bookkeeper</i>                            |
| Helen Jordan Clayton.....        | <i>Payroll Clerk</i>                         |
| Carolyn Smith .....              | <i>Clerk-Typist</i>                          |
| Charlie James Collins, B. S..... | <i>Superintendent, Buildings and Grounds</i> |
| James R. Holland.....            | <i>Inventory Record Clerk</i>                |
| Mary G. Felix.....               | <i>Clerk, Buildings and Grounds</i>          |
| Florence L. Plumley, B. S.....   | <i>Dietitian and Cafeteria Manager</i>       |
| Eloise M. Van Horn, B. S.....    | <i>Assistant Dietitian</i>                   |
| Don Morris.....                  | <i>Manager, Student Union</i>                |
| Kathleen G. Flynn.....           | <i>Hostess, Student Union</i>                |
| Percy L. Galloway.....           | <i>Manager, Bookstore</i>                    |
| Everette D. Newman.....          | <i>Assistant Manager, Bookstore</i>          |
| Lillian O. Newcomb.....          | <i>Manager, Duplicating Department</i>       |
| Ida Mae Nida.....                | <i>Clerk, Duplicating Department</i>         |
| Lavera Oswald Verlander.....     | <i>Telephone Operator</i>                    |
| Jeanne Childers, A. B.....       | <i>Junior Accountant</i>                     |
| Winona L. Sayre.....             | <i>Clerk</i>                                 |

OFFICE OF DIRECTOR OF EDUCATIONAL RESEARCH  
AND FIELD SERVICES

|                          |                  |
|--------------------------|------------------|
| Patricia Hess Olsen..... | <i>Secretary</i> |
|--------------------------|------------------|

## LABORATORY SCHOOL

|                         |                  |
|-------------------------|------------------|
| Ann Powell Howgate..... | <i>Secretary</i> |
|-------------------------|------------------|

## DEPARTMENT OF MILITARY SCIENCE AND TACTICS

|                        |                  |
|------------------------|------------------|
| Dorothy W. Pinson..... | <i>Secretary</i> |
|------------------------|------------------|

## **GENERAL INFORMATION**

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**STATEMENT OF INSTITUTIONAL PURPOSES**

**HISTORY**

**ORGANIZATION**

**ACCREDITATION**

**LOCATION**



GENERAL INFORMATION

STATEMENT OF INSTITUTIONAL PURPOSES

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LOCATION

## STATEMENT OF INSTITUTIONAL PURPOSES

Marshall College, 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 college recognizes an obligation to contribute to the cultural growth of its community.

The college 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 college 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 College 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, tradition says, conducted a private school to satisfy the clause in the deed which limited use of the property to school purposes. Another 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. In 1945 two-year programs leading to the degrees of Associate in Arts and Associate in Science were approved in ten fields.

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 seven additional departments offering work in a minor field.

## DIVISIONS

Marshall College functions through three main divisions: the Teachers College, the College of Arts and Sciences, and the Graduate School.

The academic year is divided into two semesters of eighteen weeks each. Two terms of six weeks each are offered during the summer.

## THE EVENING PROGRAM

It is the desire of Marshall College through its evening program to serve all those who feel the need or have the desire to extend their education.

In the main, there are two groups of students for such a program. Those who want college credit and those who are not interested in such credit.

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

1. Graduate work for those who hold a Baccalaureate Degree and who wish to work for a Masters Degree. Much of this work may be done in evening classes, which will be in every sense the equal of full time student work. By taking advantage of the evening program, the time needed to secure a Master's Degree may be shortened.
2. 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. A sufficient variety of courses is offered to start with and others will be added as the demand grows.

It is proposed to provide a series of programs covering approximately 36 semester hours of work upon the completion of which a certificate of proficiency will be issued. Details of such courses will be announced later. Evening classes will also 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 or to make preparation for advancement in their vocation.

The college is willing to organize any class for twelve or more students desiring to follow a particular line of study.

For further information write or call the Director of the Evening Program.

## BUREAU OF RESEARCH AND FIELD SERVICES

This division of the College provides improved coordination between the College and those groups or organizations which fall within our natural service area. The types of services include such activities as the organization of extension classes; off-campus workshops at various centers; the operation of a program bureau for supplying speakers, dramatic and musical programs; and consultants in certain special fields.

One objective of the Bureau is to further develop a mutual understanding and helpfulness between Marshall College and its supporting public through whatever means are available.

**Extension Classes.** Classes in extension are offered to meet the demands of teachers and others who cannot be in residence. Courses in Education, English, Political Science, Physical Science are offered regularly. Other subjects will be given depending upon demand and the availability of staff members.

The extension work is given on a semester basis. Not more than 24 semester hours are acceptable toward an undergraduate degree and 15 hours toward a master's degree. Not more than six semester hours may be earned within one year.

The fee for extension work is \$7.50 per semester hour, payable in advance. No part of this fee will be refunded in case of withdrawal from class.

**Workshops.** The College will offer a limited number of off-campus workshops in the field of elementary education during the summer.

These workshops will operate for a period of three weeks each, with a maximum of three hours credit. The essential difference between the workshop and extension classes lies in the methods and techniques employed in teaching and learning.

The fee for workshop credit is the same as for extension. It is suggested that those desiring extension classes may work through their county superintendents, who will take the matter up with the College.

**Speaker and Program Bureau.** This division of Field Services will be glad to receive requests for speakers to appear before school, civic and community organizations, scientific societies, service clubs, etc.

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

**Field Surveys.** The College will provide consultant services and assist in directing 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.

Those interested in securing further information should write to

Director of Research and Field Services  
Marshall College

The College should be informed of the desires and needs of a particular organization or county before the beginning of a semester whenever possible.

Marshall College offers no work by correspondence.

## RESERVE OFFICERS' TRAINING CORPS

The objective of the Reserve Officers' Training Corps is to qualify students for positions of leadership in time of national emergency and to produce fully qualified officers for the various components of the Army and the Air Force. The program consists of two parts, the Basic Course and the Advanced Course, each of two academic years, with the Advance Course including attendance at summer camp.



Enrollment is voluntary. However, either course, when once entered upon by the student, becomes a prerequisite for graduation unless relieved of this obligation by the college under regulations prescribed by the Department of the Army.

An Ordnance Corps Unit of the Reserve Officers' Training Corps has been established at Marshall College. 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 and Tactics.
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 and Tactics.

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.
2. Have completed the Basic Course or by being a veteran with 12 or more months' service.
3. Execute a written contract with the government to continue the course of instruction in 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 Tactics and the President of the College 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 first year Basic Course, MS 101, is designed to provide the student with a fundamental background of military information and training applicable to all branches of the Army or the Air Force. The second year Basic Course, MS 201, provides an introduction and techniques peculiar to the Ordnance Corps.

### **Advanced Course**

The Advanced Course is designed to qualify students for commissions in the Ordnance Corps or Ordnance Corps Reserve.

Attendance at the ROTC camp, normally during June and July following the first year of the Advanced Course, offers practical training in leadership and exercise of command and ordnance field exercises. In exceptional cases, attendance at camp may follow the sophomore year or may be postponed until after the senior year.

## Fees and Remuneration

Textbooks, notebooks and other instructional material required by ROTC students are furnished without cost to the student. Uniforms, to be worn as prescribed, will be issued by the Military Department. Commutation of subsistence at the rate of \$.90 a day is paid to students enrolled in the Advanced Course. Students attending summer camp are paid at the rate of \$78.00 per month. All expenses, including transportation to and from summer camp, are borne by the Government. A deposit of \$25.00 (Twenty-five Dollars) is required by the college of all ROTC students to cover possible loss or damage to uniforms and equipment. This deposit is returnable.

## Credit

Students in the ROTC Basic Course will attend classes a minimum of three hours per week and will receive two semester hours' credit per semester toward graduation requirements. Students in the Advanced Course will attend classes a minimum of five hours per week and will receive three semester hours' credit per semester. In addition, all ROTC students normally will attend a combined period of leadership and drill practice each week. Three semester hours' 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 of value in securing selection to Officer Candidate Schools or appointments as non-commissioned 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.

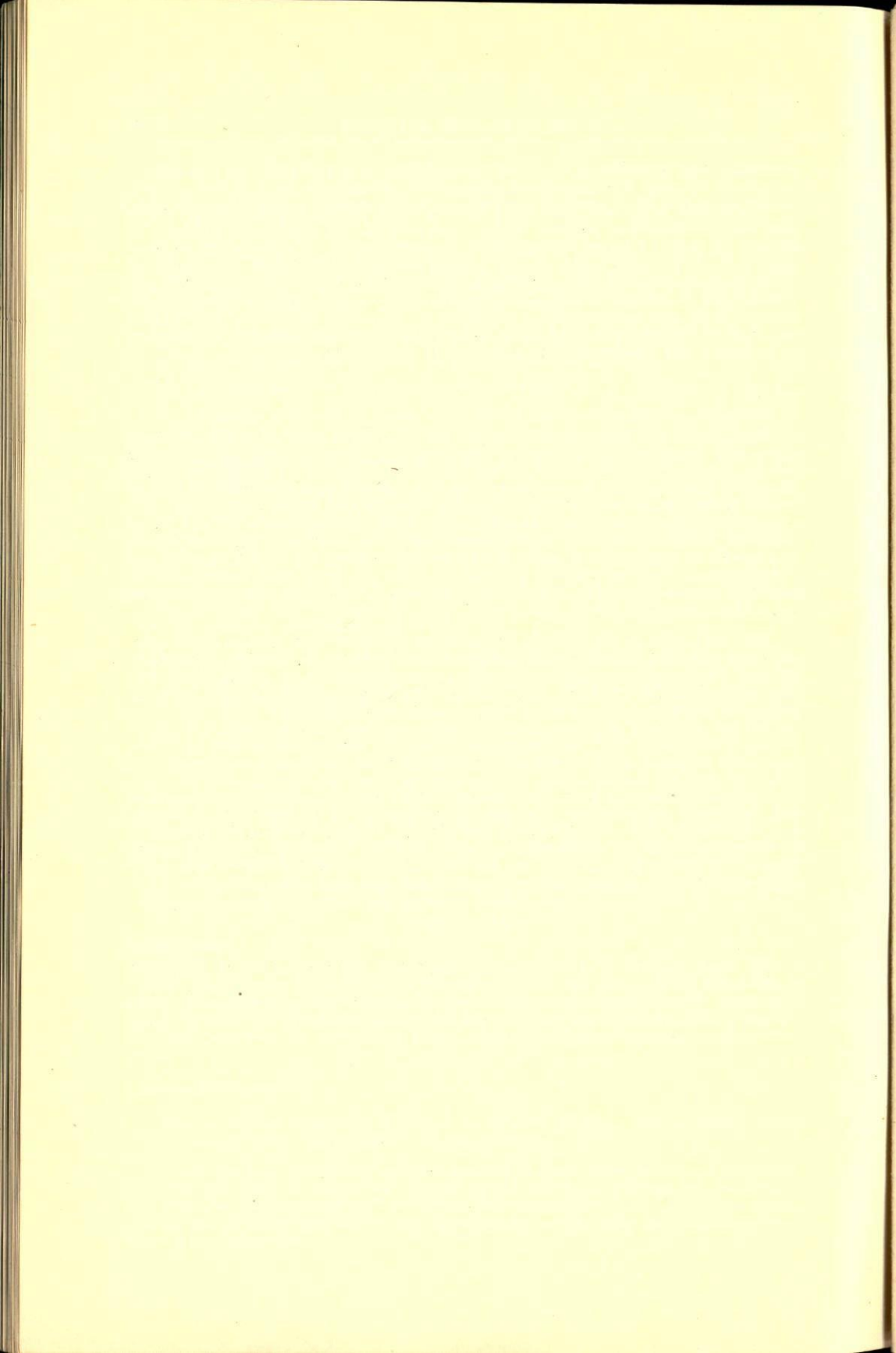
## ACCREDITATION

Marshall College is accredited by the North Central Association of Colleges and Secondary Schools and the American Association of Teachers Colleges; is a member of the Association of American Colleges, the American Council on Education, and is approved by the American Association of University Women. Therefore, academic credits earned in Marshall College are fully standardized, and are accepted by all other colleges and universities.

## LOCATION

Marshall College is advantageously located in Huntington, West Virginia's largest city. Huntington is served by three major railway systems and motor bus lines. The growth in industrial enterprise in southern and southwest West Virginia means constant growth in population and in business and professional opportunities for students.





## **GENERAL INFORMATION**



### **ACADEMIC**

**Admissions**

**Grades and Credits**

**Academic Regulations**

**Classification of Students**

**Academic Publications**





## ADMISSIONS

### General Requirements

Admission to Marshall College may be obtained in one of three ways:

1. By a certificate of graduation and credit properly certified from an accredited\* secondary school.
2. By properly certified transcript and statement of good standing from a standard\*\* college or university.
3. By the General Educational Development Test.

### Admission of High School Graduates

#### (a) Residents of West Virginia:

Graduates of accredited high schools are eligible for admission. Applications for admission should be made to the Director of Admissions on forms provided by his office. Certified copies of high school credentials should be submitted to the Director of Admissions' Office at least thirty days prior to the date of registration. Such credentials should come directly from the principal of the secondary school. Applicants will be notified in writing when credentials have been received and admission has been granted.

#### (b) Non-Residents of West Virginia:

Graduates of accredited high schools who rank in the upper fifty per cent (or upper half) of their graduating class are eligible for admission. This rank must be shown on the transcript. In applying for admission, such students should follow the procedure outlined in paragraph (a) above.

Students whose scholastic average in high school is less than C or whose average is less than that specified by the high school as a recommendation for college admission may be admitted on probation.

### Transfer Students

A student applying for admission with advanced standing must meet the entrance requirements of this college and present evidence that he is in good standing in every respect at the institution last attended. Students who have been dismissed for academic or social reasons will not be eligible for admission. In no case shall a student be admitted whose record is such that he would have been dropped at Marshall College.

The applicant should request the Registrar of the institution last attended to forward an official transcript containing a statement of honorable dismissal direct to the Director of Admissions at least thirty days prior to the opening of the semester. To be official the transcript must bear the official seal of the institution and carry the manual signature of the proper authority. He should also file with the Director of Admissions an application for admission blank which may be secured from the Admissions Office.

Credit which is of "C" quality or better will be accepted from accredited colleges and institutions which are not supported by the State of West Virginia. In order to be classified as fully accredited, a college must be a member of a regional accrediting association or it must be on the approved list of the state university in the state in which it is located.

\*Accredited schools are standard high or preparatory schools as classified by the Department of Education in the various states, or by any of the regional accrediting agencies, such as the North Central Association of Colleges and Secondary Schools.

\*\*Standardized by membership in one of the associations of colleges and secondary schools.



Transcripts from West Virginia state supported institutions will be accepted at face value.

### Credits Earned by Correspondence

Complying with the August 30, 1933 ruling of the State Board of Education, no credit earned by correspondence since July 1, 1934 is acceptable toward certification or graduation.

### Examination for Entrance

The General Educational Development Test, used as an entrance examination, is administered three weeks before the beginning of each term. Applicants must be twenty-one years of age. All candidates for entrance must notify the Registrar at least one week before the examinations are to be taken.

### Examination for Advanced Standing

Full-time students who have studied a subject elsewhere may take examinations for advanced standing. Such students must convince the appropriate Department Head and Dean that the subject matter which they have mastered is equivalent to the course content of the course in which they desire to be examined. Examinations must be taken within three months after the opening of a semester. Candidates for examinations must secure a permission form from the Registrar's Office at least five days before the date of the examination and must secure the signature of the appropriate Department Head and Dean and pay the fee before undergoing the examination.

### Specific Requirements

**Resident Students.** Residents of West Virginia who are graduates of accredited high schools will be admitted to Marshall College on certificate, provided they have 15 units of high school work including:

|  |         |
|--|---------|
| English (composition, rhetoric, literature)..... | 3 units |
| American History .....                           | 1 unit  |
| Biology or science or mathematics.....           | 1 unit  |

The remainder of the work may include whatever subjects approved first class high schools certify as counting toward graduation.

Admission to the college does not necessarily qualify a student for admission to the various curricula or departments. In every case the student must meet the requirements for the curriculum or department in which he wishes to enroll.

Not less than one unit of a foreign language, chemistry, and physics will be accepted.

Not less than one-half unit in any subject will be accepted. Not more than one unit each in journalism, dramatics, arithmetic, and public speaking will be accepted.

### Admission to Teachers College

By regulations of the State Board of Education any graduate of a first class high school in West Virginia, with credits obtained in any one of the curricula provided for high schools, may enter upon a teacher training curriculum.

A student with fifteen (15) units of credit obtained in one of the high school curricula may be admitted conditionally, but not more than thirty-two semester hours of college credit may be taken before the requirements for high school graduation have been met in full.

### **Admission to the College of Arts and Sciences**

The three degrees offered within the College of Arts and Sciences require slightly different entrance credits. The entrance requirements for the different degree curricula follow:

Students interested in securing the A. A. or A. B. degree should present two units of a foreign language.

Students interested in securing the A. S. or B. S. degree should present two units of mathematics, one algebra and one geometry. It is recommended that a student also present two units of a foreign language.

Students interested in securing the B. E. S. degree or the B. S. in Chemistry should present three units of mathematics, one each of algebra, geometry, and trigonometry. It is recommended that a student also present two units of a foreign language, one unit of physics, and one unit of chemistry.

### **Admission to Graduate Study**

For information concerning admission to the Graduate School, see the Graduate School catalogue.

## **FRESHMAN WEEK**

In order to give freshmen an opportunity to adjust themselves to their new surroundings, the college sets aside a period at the beginning of each semester for their reception and registration. (See college calendar for dates.) During these days the freshmen become acquainted with the campus and the facilities provided for their instruction and welfare. Selected upper-classmen and members of the faculty greet the new students and assist them in adapting themselves to college life.

During this period, placement tests in English will be given to all entering freshmen and to transfer students who have not had college English. Students who show proficiency in certain other subjects which they began in high school and wish to continue in college, such as music, general biology, physical science, and foreign languages, will be assigned to advanced sections or classes.

An opportunity is given each student to confer with advisers regarding living accommodations and personal problems; to take required medical examination at the college clinic; to become acquainted with the campus and location of buildings, including lecture and laboratory rooms, library, and other points of interest.

All freshmen are required to attend a special Freshman Assembly at 9:00 A. M. in the college auditorium on the first day of the program. At this time the administrative officers of the college will be introduced, the president will address the new students, and the program for Freshman Days will be outlined. Freshmen who miss or arrive late for this program will experience considerable delay and confusion in starting their college work.

## **FACULTY-STUDENT ADVISORY PROGRAM**

Under this program each student who is admitted to Marshall College 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-DEFINITION

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 periods 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 a year of residence, or for those who attend summer school only, within the next summer's residence and if the make-up work is unsatisfactory, the grade will become an F. No (0) quality points for 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 must have at least a 2.00 average.

Quality points in excess of two per semester hour are transferable only on grades earned in West Virginia state supported colleges.

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.

### REGULATIONS GOVERNING WITHDRAWAL FROM COURSES OR FROM COLLEGE

#### Official Withdrawal from Courses or From College:

A student desiring to withdraw from one or more courses or from the College must apply to the Academic Dean for permission. Upon giving permission the Dean will inform the Registrar who in turn will inform the instructors concerned. The instructor will report grades for the students 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 before 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 College:

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. Students withdrawing from College irregularly (without permission) will be suspended for one semester.

### 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.



### 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 College such as athletics, Madrigal Club, 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.

### 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.

### NUMBERING OF COURSES

Courses 1-99 are sub-college courses and do not carry college credit.

Courses 100-199 are primarily for freshmen, open to sophomores unless otherwise specified. Courses 200-299 are primarily for sophomores, open to freshmen and juniors unless otherwise stated. Courses 300-499 are for juniors and seniors unless otherwise specified and are open to sophomores only upon special permission. Courses 400-499 marked with \* are open to graduates. Courses 500-599 are for graduate students only.

### 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. **Late Registration Load.** If a student enters late, the maximum assignment of sixteen semester hours may be reduced; and to receive credit for eighteen weeks' work in any subject assigned he must pass satisfactorily an examination on all the work covered by the class up to the time of his entering. In laboratory subjects all "make up" work must be done hour for hour in the laboratory.

5. **Repetition of Courses.** No student may repeat any course in which a grade of C or better has been received. Any course in which a grade of D, or any grade containing the letter F, has been received may not be taken more than twice except by permission of the College Council. The second registration in a course is the final one unless the student has to withdraw from college before completing the course.

6. **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.

7. **Probation.** Conditions which will impose a probationary status upon a student:

For all students other than first semester freshmen:

1. Failure to earn a minimum cumulative quality point average of 2.0 at the end of the second semester of the freshman year or any semester thereafter, or
2. Failure to earn a quality point average of 1.5 during any semester or summer session even though the cumulative quality point average of 2.0 is maintained, or
3. Irregular withdrawal from part of the academic load the last semester or term in attendance.

For first semester freshmen:

1. Failure to earn a quality point average of 1.5.
2. Irregular withdrawal from part of the academic load.

**REMOVAL OF PROBATION.** A probationary student may carry no more than the minimum load for a regularly enrolled student during the semester or summer session in which he is on probation. On this work an average grade of C or better must be earned and there must be no failing grade. When these requirements have been met the probationary status of the student is terminated. Should the student fail to meet the probationary requirements he may, at the discretion of the academic dean, be permitted to remain in school one additional semester on continued probationary status.

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

9. **Minimum Resident Requirements for Graduation.** For the A. B., B. S., or B. E. S. degree, 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 College previous to September, 1947, and whose residence was interrupted by military service or other good reason may, on their return to Marshall College, elect to satisfy the graduation requirements that were in effect when they first entered Marshall College or to meet the requirements in effect at the time they return to Marshall College.

Candidates for Bachelor's degrees who entered Marshall College 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 NON-CREDIT 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. Faculty members may audit courses without charge.

### 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

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 96 hours of work at Marshall College.
2. All work completed by a student at Marshall College is included in determining graduation with honors.
3. Work transferred from another institution is not included in determining graduation with honors.

### 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 college 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 College, 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 COLLEGE

The College issues four bulletins bi-annually; the General Catalogue, the Teachers College Bulletin, the Bulletin of the College of Arts and Sciences, and the Graduate Bulletin. Other special publications are issued from time to time.

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

## **GENERAL INFORMATION**



### **FACILITIES**

**Buildings and Grounds**

**Health Service**

**Psychological Clinic**

**Speech Clinic**

**Library**

**Audio-Visual Program**





## BUILDINGS AND GROUNDS

The Marshall College campus consists of about twenty-five acres near the center of Huntington. On these beautifully shaded grounds are the following buildings:

**Old Main**, the oldest and largest building on the campus, contains the auditorium, numerous classrooms, offices for many members of the faculty, and all the administrative offices. The college bookstore and the college post office are in the basement.

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

**Science Building**, completed in 1950 at a cost of \$2,353,000, includes a large lecture auditorium with a seating capacity of 300, a temperature control room, special research laboratories for graduate students, and a greenhouse, in addition to the regular classroom, laboratory, and office space.

**The Physical Education Building**, completed in 1921, provides facilities for the physical activities of men and women. It has two swimming pools, one large and two small playing floors, lounges, and offices for the teachers and executives of this department.

**The Music Hall** provides a small auditorium for recitals, practice rooms for piano and voice students, a band room, and a number of classrooms.

**The James E. Morrow Library**, erected in 1930 and named in honor of a former president of the college, contains the entire library collection, reading rooms, art museum, and offices and workrooms for the library staff.

**The Clinic**, a building located at 1712 Fifth Avenue, is readily accessible to the dormitories. A full-time nurse and a resident physician are at the clinic during definite hours.

**College Hall**, the "old dormitory", is a residence hall for women. On the first, the second and third floors are rooms sufficient to house sixty-eight students.

**Laidley Hall**, a modern dormitory opened in 1937, will house 150 women. It contains the nurse's suite with a two-bed infirmary and diet kitchen.

**Hodges Hall**, opened in 1937, is a residence hall for men. It provides living room for 175 men.

**The College Dining Hall**, located between Hodges and Laidley Halls, accommodates the residents of the dormitories.

**The Greenhouse**, student recreation center, is located in the basement of the dining hall and is open for week-end and evening activities.

**Everett Hall**, a three-story residence on Fifth Avenue, is the Home Management House under supervision of the Department of Home Economics. A nursery school occupies the first floor; senior women in home economics use the second and third floors as the Home Management House.

**Veteran's Housing** is provided in two units. **Allen Court**, located approximately two miles west of the campus on city bus lines, has accommodations for sixteen married veterans and 100 single men. **Donald Avenue Housing Project** is located two miles south of the campus with limited bus service. Sixty-two units are available for married veterans.

**The Albert Gallatin Jenkins Laboratory School** at the time of its dedication in 1938 was named in honor of a distinguished Confederate cavalry officer who was a native of Cabell County. Because the laboratory school provides for kindergarten, elementary, and high school education, the work done in this modern, fully equipped building makes possible an enriched program for pupils and prospective teachers.

**The Shawkey Student Union** was built in 1932 and named in honor of Dr. Morris P. Shawkey, who for twelve years was president of the college. As the social center of the college it is the scene of many informal gatherings, college dances, and receptions.

**The College Book Store** in the basement of Old Main is maintained by the college for the convenience of students and faculty. Here textbooks and other school supplies are sold at reasonable prices. The college post office is housed in the book store.

**Fairfield Stadium**, about eight blocks from the campus, is a modern structure accommodating about 12,000 persons.

**The Engineering Building**, located on the north campus, is a two-story temporary structure, which includes ten classrooms, two conference rooms, and sixteen offices.

**Huntington Memorial Field House**, on Fifth Avenue about ten blocks east of the College, serves as Marshall's home basketball court.

### HEALTH SERVICE

Health service is organized to provide medical service to students of the college, as well as to supervise health conditions on the campus.

A student clinic is maintained in which are located the offices of the physician and nurse. The College 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 in the clinic. A nurse is available at the clinic or at the infirmary in Laidley Hall.

#### Medical Examination

Students entering Marshall **must** take a medical examination given by the College Physician. It may be taken immediately before or after registration. Applicants for admission must have been successfully vaccinated against smallpox.

### STUDENT HOSPITAL SERVICE

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

### THE PSYCHOLOGICAL CLINIC

The Psychological Clinic, Main 307, is open to students for consultation on scholastic, vocational, social, and personal problems.



### **SPEECH CLINIC**

The Speech Clinic is one of the services offered by the department of speech. Facilities and assistance are provided without charge to any student who desires help with speech problems. In addition, the Clinic is designed to afford training in clinical procedures to future public school speech 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.

### **JAMES E. MORROW LIBRARY**

The James E. Morrow Library contains 79,563 catalogued volumes, 10,949 of which are bound magazines. 485 current periodicals are received regularly. The Art Collection, a gift of the Carnegie Corporation, contains 300 books and 2,500 photographic reproductions of famous works of art. The library is a depository for a selected group of United States government documents. A number of pamphlets are regularly received and are available in the periodical room. The main reading room and the reserve room are on the second floor. Many books are placed on open shelves where the students may browse if they wish. The periodicals are kept there on open shelves. Bound volumes are procured from the attendant at the desk.

The library has microfilm editions of the Christian Science Monitor from 1934 to date and of the New York Times from 1939 to date. As the budget permits other microfilm will be purchased. A Recordak reader is available for the reading of the microfilm.

### **AUDIO-VISUAL PROGRAM**

The Audio-Visual program at Marshall College is planned to accomplish two broad purposes: to aid the College 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 College and in extension centers throughout the state.





## **GENERAL INFORMATION**



## **FEES AND EXPENSES**





## 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 College, and no check will be accepted until day of registration.

### REGISTRATION FEES

#### Full-time Students (twelve or more semester hours)

|                             | Resident<br>of West<br>Virginia | Non-<br>resident <sup>1</sup> |
|-----------------------------|---------------------------------|-------------------------------|
| Tuition Fee .....           | \$30.00                         | \$100.00                      |
| Student Activity Fee.....   | 13.25                           | 13.25 <sup>2</sup>            |
| Total Registration Fee..... | \$43.25                         | \$113.25                      |

#### Part-time Students (less than twelve semester hours)

##### Fee per semester hour<sup>3</sup>:

|  |         |         |
|--|---------|---------|
| First hour .....                           | \$ 5.00 | \$ 9.00 |
| Second hour .....                          | 3.00    | 9.00    |
| Third hour .....                           | 2.00    | 9.00    |
| Each hour above three semester hours ..... | 3.00    | 9.00    |
| Extension classes .....                    | 7.50    | 7.50    |

### SPECIAL FEES

|  |         |
|--|---------|
| Late Registration Fee <sup>4</sup> ..... | \$ 2.00 |
|--|---------|

#### 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 .....      | 6.00    |

|                                       |         |
|---------------------------------------|---------|
| Fee for Change of Schedule .....      | \$ 1.00 |
| Special Examination per sem. hr. .... | 3.00    |

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 ..... | \$3.00 |
|--|--------|

<sup>1</sup>NON-RESIDENT 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.

<sup>2</sup>THE STUDENT ACTIVITY FEES are allocated as follows: Assemblies and Forums \$1.00; Athletics \$5.00; Artists Series \$2.50; Chief Justice \$1.50; College Theater \$.50; Greenhouse (Recreation Center) \$.50; Parthenon \$1.25; Student Council \$.50; Student Union \$.50. Total for semester \$13.25.

<sup>3</sup>FEE PER CREDIT HOURS. This fee does not include a student activity book. Part-time students may purchase the book for \$13.25.

<sup>4</sup>PENALTY for those who register after the registration date stated in the catalogue.

**LABORATORY FEES**

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

**ROOM RENT**

(Per Semester of 18 Weeks)

**Laidley Hall**

|                                   |         |
|-----------------------------------|---------|
| Small doubles, each student ..... | \$50.00 |
| Large doubles, each student ..... | 55.00   |
| Singles .....                     | 60.00   |

**College Hall**

|                             |         |
|-----------------------------|---------|
| Doubles, each student ..... | \$50.00 |
| Singles .....               | 55.00   |

**Hodges Hall**

|                               |         |
|-------------------------------|---------|
| All rooms.....per person..... | \$55.00 |
|-------------------------------|---------|

**Allen Court**

|                               |         |
|-------------------------------|---------|
| All rooms.....per person..... | \$35.00 |
|-------------------------------|---------|

See STUDENT HOUSING (page I-51) for room deposit fee and reservations.

**BOARD**

All students living in the dormitories must take their meals in the College Dining Hall. Meals are available to students rooming off the campus at the same rate as resident students.

The cost of board is \$180.00 for each semester. 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.

Two per cent (2%) consumers' tax will be added to the board and room charges. This tax must be paid in full each semester on the first room and board payment.

NOTE: No deduction or refund will be made in room and board charges for short absences (less than one week).

**ESTIMATE OF EXPENSES**

Estimated semester expenses of a student at Marshall College 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 college. In addition, the costs of college supplies, personal and social expenses are calculated.



|  | Minimum           | Average           |
|--|-------------------|-------------------|
| TUITION .....  | \$ 30.00          | \$ 30.00          |
| Student Activity Fee .....                           | 13.25             | 13.25             |
| Board .....  | 180.00            | 180.00            |
| Room .....   | 50.00             | 55.00             |
| Books, Gym outfit .....                              | 30.00             | 35.00             |
| Supplies, laboratory fees, etc. ....                 | 10.00             | 15.00             |
| Social and Personal .....                            | 60.00             | 70.00             |
|  | <hr/>             | <hr/>             |
|  | \$373.25 plus tax | \$398.25 plus tax |
| Out-of-state students pay an additional fee of ..... | \$ 70.00          | \$ 70.00          |

The activity fee entitles students to admission to the Forum, Artists Series for the season, athletic events, College Theatre, copies of *The Parthenon* (college paper), the college yearbook, *The Chief Justice*, use of the Student Union, and the advantage of hearing lectures brought to the Marshall College Auditorium.

#### I. Withdrawal from college of part-time students

- Amount of refunds
- a. During first and second weeks (4 hrs. or less).....All tuition less  
\$ .50 per semester hour
- b. After second week, all refunds will be on the same percentage basis as outlined in Item III below.
- c. Extension Classes.....No refund unless withdrawal is due to administrative action

#### II. Reduction of academic load by part-time students

- a. Refunds are made on same basis as that outlined in Item I above.
- b. No refund will be granted to any full-time student who by reason of dropping courses, unless by administrative action, acquires the status of a part-time student.

### REFUND OF FEES

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

#### III. Withdrawal from college of full-time students

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

No refund will be granted on the student activity or laboratory fees.

|  | Amount of Refunds           |
|--|-----------------------------|
| During the first and second weeks.....   | All tuition fee less \$2.50 |
| During the third and fourth weeks.....   | 80% of tuition fee          |
| During the fifth and sixth weeks.....    | 60% of tuition fee          |
| During the seventh and eighth weeks..... | 40% of tuition fee          |
| Beginning with the ninth week.....       | No refunds allowed          |

#### IV. 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 Withdrawal page I-33.



**V. Fee for change of class schedules**

One dollar will be charged for each change in a student's schedule after it has been approved by the dean. A change of schedule includes any addition to, subtraction from, or substitution in original schedule. The respective Deans shall notify the Registrar of all schedule changes on pink "Change of Schedule Cards." This card must carry a notation from the Dean as to whether the change of schedule fee is to be charged or waived.

**VI. 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.

**VII. Fees for auditing courses**

a. Faculty members may audit courses without charge. All faculty 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 faculty 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.

**VIII. Refund of laboratory fees**

No refunds will be granted on laboratory fees unless a student is required to withdraw from a laboratory class by administrative action.

## **STUDENT LIFE**



**OFFICES OF THE DEAN OF MEN AND DEAN OF WOMEN**

**STUDENT HOUSING**

**STUDENT GOVERNMENT**

**STUDENT ACTIVITIES**

**STUDENT LOANS AND SCHOLARSHIPS**





## STUDENT LIFE

### OFFICES OF THE DEAN OF MEN AND DEAN OF WOMEN

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 college 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, 110 Main Building.

### HOUSING

Women students are housed in Laidley Hall and College Hall. Men students are housed in Hodges Hall and Allen Court dormitory. Room rents for each dormitory may be found under fees.

Both men and women students must provide sheets, blankets, towels, study lamps, small rugs, dresser scarfs, and bedspreads. Laundry is sent home or to one of the city laundries.

All residence halls will be closed during the Christmas holidays.

Living conditions of students in college dormitories are under the immediate supervision of the housemothers who are responsible to the Dean of Men and the Dean of Women. All residence halls, fraternity and sorority houses, and privately owned homes in which students reside are subject to periodic inspection and official approval. Sorority and fraternity houses are in charge of college-approved hostesses who are responsible to the social deans.

Before a student can occupy a room in any dormitory for any one semester a \$10.00 deposit must be made which will be credited to the student's semester room rent providing the student occupies dormitory facilities for the entire semester. If, for any reason, the student does not desire to use the facilities on which he (or she) has made a \$10.00 deposit, he (or she) must notify his (or her) dean in person or in writing before July 15 for the first semester and before January 5 for the second semester, in which case the dean will authorize a refund of \$8.00. In case of withdrawal from the dormitory during a semester the \$10.00 deposit plus the pro-rated rent based upon the total semester rate is deducted from the refund given.

A refundable security fee (breakage) is required of all who rent campus units. The fee is \$5 for dormitory and \$10 for family dwelling units.

Room assignments are made in order of application after students in residence have been placed, and in case a double room has a single occupant the college reserves the right to place that student in a single room of the same price.

All students living in the campus dormitories must take their meals in the College Dining Hall.

### Rooming Houses

All living arrangements for students are supervised by the Dean of Women and the Dean of Men and no student may reside in a place of which they disapprove. Lists of rooming houses are available in the Offices of the Social Deans. A personal inspection and approval of the residence by the student and

his parents is urged. Mailing lists have not proved satisfactory. Single men and women may not rent rooms in the same rooming house.

### **Family Dwelling Units**

The college has over one hundred temporary housing units which are rented to veterans and their families at rents ranging from \$19.50 to \$37.50. Applications may be procured at the Office of the Dean of Men.

## **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 college. It is constructed to represent democratically all members of the Student Body. It is designed to reflect student opinion, and to crystallize and make effective any constructive program. It encourages initiative and civic development; it trains for intelligent citizenship.

## **STUDENT ACTIVITIES**

The regulations of the college shall require from every student decorous, sober, and upright conduct so long as he remains a member of the college student body, whether within the precincts or anywhere else.

## **SHAWKEY UNION**

The Shawkey Union, devoted wholly to social life, provides a recreational center for all students. For the convenience of students, a good 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 college.

## **THE GREENHOUSE**

The Greenhouse is a recreation center located in the basement of the College Cafeteria. It is equipped and maintained for student participation in dancing, playing table tennis, checkers, cards, moving pictures and other recreational activities during evenings and week ends. A Director is in charge, assisted by the "Greenhouse Association," a student organization formed to help formulate policies and programs for the center.

## **INTRAMURAL**

Intramural athletics at Marshall College 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 College conducts a most comprehensive program. Plaques and medals are awarded to all championship teams.

## **BAND, ORCHESTRA, AND CHORAL GROUPS**

All students at Marshall College 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, Treble Clef Club, 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 rehearses daily and 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.



### COLLEGE THEATRE

Under the general direction of the Department of Speech it is not the sole purpose of College Theatre to produce plays merely for the entertainment of the audience, important though that may be. College Theatre, while serving as an all college extra curricular activity, is closely integrated with the fundamental philosophy of the Department. That is—to consider speech as a tool for social adjustment. Emphasis is placed upon development of confidence and poise, initiative, self-reliance, cooperativeness and personality.

A further purpose of the College Theatre is to develop the appreciation of dramatic literature. Here great value lies in keeping alive the plays that have made dramatic history, and it is here that one can learn why these plays deserve a place in the study of human culture.

### DEBATE AND PUBLIC SPEAKING

Marshall College debaters meet teams from other colleges through a season which culminates in the State Intercollegiate Tournament, and in the National or Regional Pi Kappa Delta Tournament. Marshall students also compete in intercollegiate contests in Oratory and Extemporaneous Speaking.

The Debate Club provides opportunity for student discussion of public questions. Pi Kappa Delta is a national honorary forensics fraternity. Membership is conferred on those achieving distinction in intercollegiate debate, oratory, and extemporaneous speaking.

### STUDENT PUBLICATIONS

**The Parthenon** is a semi-weekly news publication issued by students under the direction of the Department of Journalism.

**The Student Directory** is published each fall by the Home Economics Club of the College.

**The Student Handbook** is published annually in September by the Social Deans and contains general information for all students with particular emphasis on information for freshmen.

**The Chief Justice**, the college annual, is published by the Student Government under the supervision of the Chief Justice Board.

**The Hodges Haul** is published by students living in the three college dormitories—Hodges Hall, Laidley Hall and College Hall.

### INTERCOLLEGIATE ATHLETICS

The intercollegiate athletic program is supervised by an Athletic Advisory Board which body acts on problems concerning the athletic program and makes recommendations to the President of the College for his approval.

### CULTURAL PROGRAM

The Marshall College 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. An activity fee is included in the total registration cost and no further admission charge is collected for any of the above programs.

### STUDENT ORGANIZATIONS

As a helpful adjunct to classroom experience a number of scholastic, professional, and social (including sororities and fraternities) groups offer op-



opportunities in preparation for citizenship following college graduation. These organizations supplement certain aspects of classroom experiences by meeting needs for religious, aesthetic and social experiences that are recognized as essential.

**Honor Groups:** Alpha Epsilon Delta, Alpha Kappa Delta, Alpha Psi Omega, Alpha Phi Omega, Chi Beta Phi, D-Rho-D-Theta, Eta Mu Pi, Eta Sigma Phi, Fagus, Fourth Estate, Honor Council, Kappa Delta Pi, Kappa Omicron Phi, Lambda Delta, Omicron Delta Kappa, Phi Eta Sigma, Pi Kappa Delta, Phi Alpha Theta, Pi Delta Phi, Pi Omega Pi, Pi Sigma Alpha, Psi Society, Sigma Delta Pi, Trilobite.

**Interest and Professional Groups:** American Chemical Society, Choral Union (Symphonic Choir, Men's Concert Choir, Treble Clef Club), Collegiate Academy of Science, Debate Club, Delta Omicron, Future Teachers of America, German Club, Good Government Party, Home Economics Club, International Relations Club, Kappa Pi, La Sociedad Hispanica, Le Cercle Francais, Mabes, MARS Club, Marshall Classical Association, Marshall Religious Council, Marshall Editors Council, Orchestra and Band, Music Educators, Mu Epsilon Sigma, Pre-Law, Philosophical Society, Psi Chi, Sociology Club, Varsity "M", Women's Athletic Association, W. Va. Society of Professional Engineers, Young Democratic Club, Young Republican Club.

**Religious Groups:** Baptist Student Fellowship, B'nai B'rith Hillel, Inter-arsity Christian Fellowship, Kappa Theta Chi, Newman Club, Student Christian Association.

#### **Social Groups**

**Fraternities:** Alpha Sigma Phi, Kappa Alpha Order, Lambda Chi Alpha, Phi Tau Alpha, Pi Kappa Alpha, Sigma Phi Epsilon, Tau Kappa Epsilon.

**Sororities:** Alpha Sigma Alpha, Alpha Sigma Tau, Alpha Xi Delta, Delta Sigma Epsilon, Pi Kappa Sigma, Sigma Sigma Sigma.

**Interfraternity Council, Panhellenic Council.**

**Non-Greek:** A. C. A., Cavaliers, Independent Student Association, Greenhouse Association, Satellites, Sportlettes.

### **RELIGIOUS LIFE**

The religious life of the students is largely entrusted to the many well-organized churches in Huntington. Devotional exercises are held at the assemblies, and other ample opportunities for students are provided in association with the young people's organizations in the churches. The Marshall Religious Council, open to all students, provides a religious emphasis for campus life. LIFE PLANNING WEEK, held in February each year, brings outstanding religious leaders to the campus from the Jewish, Catholic, and Protestant faiths.

### **STUDENT EMPLOYMENT**

An employment service is conducted by the offices of the Dean of Men and Dean of Women to advise and aid worthy students who desire part-time employment while in college. A guarantee of work cannot be made, although every effort is exerted to place students on the campus or in the city.

Students are advised not to attempt entire self-support. Freshmen are urged to delay part-time employment until the second semester if at all possible.

### **PLACEMENT SERVICE**

The college maintains a placement service to help graduates find employment in the fields of their choice.

Candidates for teaching positions get help at the Office of the Dean of Teachers College. Credentials of students are made available to school officials who are seeking teachers.

Candidates for non-teaching positions receive assistance both from department heads and the social deans. All graduates who desire assistance in placement are urged to register with the placement office 110 Main. During the current year every graduate has had an opportunity for interviews with a large number of personnel representatives who have come to the campus representing government, business and industry.

### STUDENT LOANS AND SCHOLARSHIPS

Applications for loans or scholarships may be made to the Registrar or Dean of Men. Consideration will be given each applicant according to the rules of the college 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 Committee of the college unless otherwise stated.

#### LOANS

**Woman's Club Loan Scholarship.** This scholarship of \$150 is to be awarded to a student who could not otherwise attend school. Administered by Miss Lucy Prichard.

**Huntington Branch, American Association of University Women Loan Scholarship,** total amount of \$1,000 is awarded to girls who cannot otherwise attend college. Administered by Miss Lucy Prichard.

**Class of 1889 Fund.** The class of 1889 is permitting its class fund of \$225 to be used for student loans until it may be increased materially, at which time a more permanent disposition of the fund may be decided upon.

**The Mr. and Mrs. James W. Burgess Loan Fund.** This fund, established in 1928 by Miss Frances Burgess as a memorial to her parents, is a fund of \$1,000 to be held in trust for worthy and promising students of junior and senior standing who need temporary financial aid. The fund is to be loaned with interest.

**Square No. 52 Scholarship Loan.** A scholarship loan of \$50 is to be awarded by Marshall Square No. 52 of Square and Compass Fraternity to a young man of promise and ability, preferably, a senior. This loan is designed to mature on the January first following the borrower's graduation or withdrawal from Marshall College. Interest at four per cent per annum begins to accrue on the first day of the month following the time of graduation or withdrawal from college.

**Class of January 1943 Fund.** This fund is available to second semester seniors, to assist in meeting emergency graduation expenses.

**The Huntington Current History Club Loan Scholarship.** This fund, totalling \$1,000 is to be awarded to students, preferably women, who need financial assistance either to attend or to continue in college.

**The Lucille Druen Memorial.** In honor of their classmate, Lucille Druen, the members of the Home Economics Club of Marshall College of the year 1926 raised a fund of \$725. This money is to be loaned to worthy students at three 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.

**The Marshall College Panhellenic Loan.** This loan fund of \$450, made available to students requiring an emergency loan.



**The D. B. Smith Memorial.** In honor of her husband, Senator D. B. Smith, a loyal and devoted friend of Marshall College, Mrs. Smith on July 23, 1925, turned over to the College the sum of \$1,000 as a memorial fund. This money is to be invested in perpetuity and the income used in assisting worthy students.

**The Paul Morgan Fund.** In memory of their son, John Paul Morgan, a student in the pre-medical department of the College, Mr. and Mrs. W. S. Morgan, of Mason County, have given the College \$1,000 as a scholarship fund, the income from which is to be awarded annually to some worthy student preparing for the medical profession.

**The Mrs. James Lewis Caldwell Fund.** As a memorial to her mother, Mrs. Mary O'Bannon Smith Caldwell, Mrs. Charles Wellington Watts established in June, 1928, a fund of \$400 annually to 1934. This will be used for student loans until it may have materially increased, at which time a more permanent disposition of a portion of it may be decided upon. In the awarding of the loans, preference will be given to junior and senior students who have established high scholastic records.

**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.

**Kappa Delta Pi, Phi Chapter.** A small loan fund is administered for the benefit of worthy students of Teachers College whose scholastic average for two years is B or better.

**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.

**The Kappa Theta Sorority Loan Fund.** A small sum of money has been made available by the alumnae of Kappa Theta Sorority to students who are in need of money to help them over financial emergencies.

**Ruth Stark Hunter Memorial Fund.** This loan fund of \$200 has been made available by the Delta Sigma Epsilon Sorority, Lambda Chapter, in memory of one of their members, Ruth Stark Hunter, Lieutenant, jg., U. S. N. (W. R.), who was killed in the service of her country during World War II.

**Rotary Student Loan Fund.** The Rotary Club of Huntington, West Virginia, has established a Student Loan Fund which permits an eligible student to borrow a maximum amount of \$150.00 in any one school year. An applicant for a loan must submit satisfactory evidence of the following qualifications: He must be a bona fide resident of the City of Huntington, W. Va., and a student in good standing in Marshall College. 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 Registrar.

**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 Huntington Kiwanis Student Aid Fund.** The Kiwanis Club of Huntington has established a fund in the amount of \$900 to be loaned to undergraduate students who excel in scholarship, extra-curricular activities, and citizenship and are of sound moral character. Loan to be repaid following graduation or withdrawal from college.



## SCHOLARSHIPS

**The Community Players Scholarship.** The Community Players of Huntington annually award a tuition scholarship to a student majoring in speech and dramatics.

**The Julius Broh Memorial Scholarship.** This fund provides five hundred dollars 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 loved ones. The scholarship is to be administered by a journalism committee headed by Professor W. Page Pitt.

**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.

**The Nathan R. Baker Journalism Scholarship.** Mr. Baker provides \$140 a year to cover books and tuition of needy, worthy students. Administered by the Journalism Scholarship Committee.

**Business and Professional Woman's Club Annual Scholarship.** This fund of \$300.00 a year, \$150.00 payable at the beginning of each semester will be granted to a West Virginia girl with the following qualifications: excellent character, good personality, above average I. Q., good record in high school for leadership and/or cooperation. Scholarship must go to a girl who could not possibly attend college without it. The fund is to be administered by College Student Aid Committee.

**Marshall College Student Council Scholarship.** The Student Council of Marshall College awards two tuition scholarships annually to high school seniors who are in need of financial assistance, and who hold outstanding scholarship and leadership records in high school. The award amounts to \$44.00 per semester, which covers fees and tuition. Applications must be filed with the Director of Admissions by March 1. Administered by a Committee of Student Council and a faculty adviser.

**Lion's Club of Milton Scholarship.** Each year the Lion's Club of Milton, West Virginia, awards a scholarship of \$250 to an outstanding graduate of Milton High School.

**The West Virginia Steel and Manufacturing Company of Huntington** has created two scholarships in the amount of \$500 each in memory of Mr. S. N. Summer, former president, and Mr. H. A. Zeller, former vice-president of the company. The S. N. Summer Scholarship is in Engineering and the H. A. Zeller Scholarship is in Business Administration. These scholarships are based upon financial need, leadership, character and academic record.

**West Virginia Board of Education Scholarships for Elementary Education.** The West Virginia Board of Education offers three four-year scholarships for students in elementary education. These scholarships are awarded on the basis of scholarship, interest in becoming a teacher in the elementary 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 for consideration to the Registrar on or before May 1.

**Kappa Delta Pi Scholarship.** Phi Chapter of Kappa Delta Pi offers a scholarship the value of which is one hundred fifty dollars (\$150). This scholarship is awarded each year to a prospective student in teacher education. The chapter reserves the right to renew this scholarship for a period of not more than four years.



## **COLLEGE OF ARTS AND SCIENCES**



**PURPOSE**

**ORGANIZATION**

**HONORS COURSES**

**BACCALAUREATE DEGREES**

**REQUIREMENTS FOR DEGREES**

**TWO-YEAR CURRICULA**

**PRE-PROFESSIONAL CURRICULA**

**COURSES OF INSTRUCTION**





# THE 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 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 Engineering Science; also the following two-year degrees: Associate in Arts, and Associate in Science.

For admission requirements see page I-29.

## ORGANIZATION

The various departments of the College of Arts and Sciences are grouped as follows:

### **Division of Humanities: Language, English, and the Arts**

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

### **Division of Sciences: Mathematics and the Natural and Physical Sciences**

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

### **Division of Social Sciences**

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

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

## HONORS COURSES

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 head of the department for the privilege of enrolling as a candidate for honors in the field of his choice. Students so recommended by the head 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 head of the department. Requirements, 3.5 in major, 3.3 over-all average.



### THE BACCALAUREATE DEGREE

Students in Marshall College, registered in the College of Arts and Sciences, may elect to receive the degree, Bachelor of Arts (A.B.), Bachelor of Science (B. S.), Bachelor of Science in Chemistry (B. S. Chem.), or Bachelor of Engineering Science (B. E. S.), upon the completion of the established four-year course of 128 semester hours for the A. B., B. S. and B. S. Chem. degrees or of 144 semester hours for the B. E. S. degree, and who meet the requirements set up by the college and by the department in which the student 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.
- (2) In no one of the divisions listed under "organization" may more than 72 hours be credited toward the A. B. degree or 84 toward the B. S. degree.
- (3) Forty-eight hours must be earned in courses numbered 300-499 for the A. B. and B. S. degrees.
- (4) Before admission to the junior year, a student must have a quality point average of 2.0 or better on the work which was completed in the freshman and sophomore years. Students who have completed two years of work with a quality point average of less than 2.0 may not take courses in advance of the 200 series.
- (5) ALL SPECIFIC REQUIREMENTS (pages III-5, III-6), for the A. B. and B. S. degrees 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 better 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 6 of which may be selected from courses in the 100 series.

The quality point average in the major subject must be 2.0 or better, and no grade of less than C will be accepted as meeting the requirement in the major subject.

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 student elects.

- (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 forty hours for the A. B. degree and 46 hours for the B. S. degree.

##### GENERAL REQUIREMENTS FOR B. E. S. DEGREE

- (1) Candidates for the B. E. S. degree must earn a minimum of 144 semester hours, and must complete all of the specific requirements for the General Engineering Curriculum option which they elect to follow.
- (2) The quality point average for all subjects elected must be 2.0 or better and the quality point average in the major field must be 2.0 or better. No grade of less than C will be accepted as meeting the requirement in the major field.
- (3) Before admission to the junior year, a student must have a quality point average of 2.0 or better on the work which was completed in the freshman and sophomore years. Students who have completed two years of work with a quality point average of less than 2.0 may not take courses in advance of the 200 series.



- (4) Seniors who find it necessary to take a required course in the 100 series must make a grade of B or better to receive full credit toward graduation, otherwise half credit will be allowed.

In computation of quality point averages, all grades of A, B, C, D, F, and FIW will be taken into consideration.

It is recommended that, for students in Engineering, major field be interpreted to include all courses in mathematics as well as in engineering, and to include physics, chemistry, business administration, or geology as appropriate for the particular option elected.

### SPECIFIC REQUIREMENTS FOR THE A. B. DEGREE

#### HUMANITIES

##### I. English

- |  |        |
|--|--------|
| a. English Composition 101 and 102 ..... | 6 hrs. |
| b. English Literature 221 and 222 .....  | 4 hrs. |
| c. American Literature 341 or 342 .....  | 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. If a student enters deficient in one unit of foreign language he must present 15 hours for graduation; if he enters deficient in two units he must present 18 hours for graduation .....12 hrs.

(Those 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 and 114 ..... 2 hrs.

#### SCIENCES

##### I. Natural and Physical Sciences

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

- |   |                 |
|---|-----------------|
| a. Physics .....  | 8 hrs.          |
| b. Chemistry .....  | 8 hrs.          |
| c. 4-hr. lab. course in Botany and 4-hr. lab. course in Zoology 211.. | 8 hrs.          |
| d. Geology 200 and any 300 course .....                               | 7 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.

#### 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 221 and 222 .....  | 4 hrs. |
| c. Speech 101 and 102 .....              | 4 hrs. |

##### II. 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.

Not required of engineering and business administration majors if two years of high school language has been presented. It is urgently recommended that all business administration majors take at least twelve hours of college work in a foreign language, as such will be required in pursuit of all advanced degrees by graduate schools.

(Those students contemplating graduate study in any field should have French and German. German is especially recommended for students majoring in science.)

III. Physical Education 113-114 ..... 2 hrs.

#### SCIENCES

|   |                |
|---|----------------|
| I. a. Physics .....   | 8 hrs.         |
| b. Chemistry .....  | 8 hrs.         |
| c. 4-hr. lab. course in Botany and 4-hr. lab. course in Zoology 211 ..... | 8 hrs.         |
| d. Mathematics .....  | 6 hrs.         |
| e. Geology 200 .....  | 4 hrs.         |
| <b>Total .....</b>  | <b>34 hrs.</b> |

Candidates for the B. S. degree must take the subjects mentioned under a, b, c, d, and e with the following exceptions: business administration majors are required to take only 8 hours from a or b or c, and 3 hours in mathematics. Majors in dietetics 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.          |
| <b>GRAND TOTAL .....</b>  | <b>78-80 hrs.</b> |

### TWO-YEAR CURRICULA

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 curricula 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

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------|-------------|------------------------|-------------|
| English 101 .....     | 3           | English 102 .....      | 3           |
| English 221 .....     | 2           | English 222 .....      | 2           |
| Botany 203 .....      | 4           | Zoology 211 .....      | 4           |
| History .....         | 3           | Psychology 100 .....   | 3           |
| Mathematics 120 ..... | 3           | *Mathematics 122 ..... | 3           |
|                       |             | Electives .....        | 2           |
|                       | <b>15</b>   |                        |             |

\*Required if Physics is taken.



**Second Year**

| <i>First Semester</i>               | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-------------------------------------|-------------|-----------------------------------|-------------|
| English 341 .....                   | 3           | English 342 (or Humanities) ..... | 3           |
| Chemistry or Physics .....          | 4           | Chemistry or Physics .....        | 4           |
| Pol. Sci. 101 or Economics 109..... | 2           | Sociology 132 .....               | 2           |
| Electives .....                     | 7           | Electives .....                   | 7           |
|                                     | 16          |                                   | 16          |

**BUSINESS ADMINISTRATION  
ACCOUNTING****Two-Year Course\*****First Year**

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>              | <i>Hrs.</i> |
|-----------------------------------|-------------|-------------------------------------|-------------|
| English 101 .....                 | 3           | English 102 .....                   | 3           |
| Business Administration 215 ..... | 3           | Business Administration 216 .....   | 3           |
| Political Science 101 .....       | 2           | Political Science 102 .....         | 2           |
| Geography 203 .....               | 3           | Mathematics 120 or 223 or 150 ..... | 3           |
| Elective .....                    | 4           | Elective .....                      | 4           |
|                                   | 15          |                                     | 15          |

**Second Year**

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------------------|-------------|-----------------------------------|-------------|
| Business Administration 307 ..... | 3           | Business Administration 312 ..... | 3           |
| Business Administration 311 ..... | 3           | Business Administration 318 ..... | 3           |
| Business Administration 313 ..... | 2           | Business Administration 324 ..... | 3           |
| Business Administration 323 ..... | 3           | Business Administration 340 ..... | 3           |
| Business Administration 411 ..... | 3           | Business Administration 413 ..... | 3           |
| Economics 241 .....               | 3           | Economics 242 .....               | 3           |
|                                   | 17          |                                   | 18          |

**GENERAL BUSINESS****Two-Year Course\*****First Year**

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>              | <i>Hrs.</i> |
|-----------------------------------|-------------|-------------------------------------|-------------|
| English 101 .....                 | 3           | English 102 .....                   | 3           |
| Business Administration 215 ..... | 3           | Business Administration 216 .....   | 3           |
| Political Science 101 .....       | 2           | Political Science 102 .....         | 2           |
| Geography 203 .....               | 3           | Mathematics 120 or 223 or 150 ..... | 3           |
| Elective .....                    | 4           | Business Administration 231 .....   | 2           |
|                                   | 15          | Elective .....                      | 2           |
|                                   |             |                                     | 15          |

**Second Year**

| <i>First Semester</i>             | <i>Hours</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------------------|--------------|-----------------------------------|-------------|
| Economics 241 .....               | 3            | Economics 242 .....               | 3           |
| Business Administration 307 ..... | 3            | Business Administration 308 ..... | 3           |
| Business Administration 323 ..... | 3            | Business Administration 324 ..... | 3           |
| Business Administration 320 ..... | 3            | Business Administration 330 ..... | 3           |
| Business Administration 340 ..... | 3            | English 222 .....                 | 2           |
| English 221 .....                 | 2            | Elective .....                    | 3           |
|                                   | 17           |                                   | 17          |

\*For degree curricula see pages III-17-III-19.



### RETAILING

#### Two-Year Course

#### First Year

| <i>First Semester</i>                                  | <i>Hrs.</i> | <i>Second Semester</i>                                 | <i>Hrs.</i> |
|--|-------------|--|-------------|
| English 101 .....                                      | 3           | English 102 .....                                      | 3           |
| Speech 101 .....                                       | 2           | Speech 102 .....                                       | 2           |
| *Economics 109 or 241 .....                            | 2-3         | *Economics 110 or 242 .....                            | 2-3         |
| *Mathematics 150 or 100 .....                          | 3-2         | Geography 203 .....                                    | 3           |
| Business Administration 227 .....                      | 2           | Business Administration 228 .....                      | 2           |
| Electives: (Choose 3 or 4 hours<br>from the following) |             | Electives: (Choose 3 or 4 hours<br>from the following) |             |
| Home Economics 104 .....                               | 3           | Art 202 .....  | 2           |
| Home Economics 127 .....                               | 2           | Home Economics 227 .....                               | 3           |
| Business Administration 245 .....                      | 3           | Business Administration 246 .....                      | 3           |
| Political Science 101 .....                            | 2           | Political Science 102 .....                            | 2           |
|  | 15-16       |  | 15-16       |

\*Students working toward the four-year degree take Economics 241-242 and Mathematics 150.

#### Second Year

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------------------|-------------|-----------------------------------|-------------|
| Psychology 201 .....              | 4           | Business Administration 246 ..... | 3           |
| Business Administration 245 ..... | 3           | or                                |             |
| or                                |             | Business Administration 346 ..... | 3           |
| Business Administration 345 ..... | 3           | Business Administration 344 ..... | 3           |
| Business Administration 343 ..... | 3           | Business Administration 412 ..... | 3           |
| Business Administration 330 ..... | 3           | Electives .....                   | 7           |
| Elective .....                    | 3           |                                   | 16          |
|                                   | 16          |                                   |             |

### SECRETARIAL

#### Two-Year Secretarial Course\*

#### First Year

| <i>First Semester</i>               | <i>Hrs.</i> | <i>Second Semester</i>              | <i>Hrs.</i> |
|-------------------------------------|-------------|-------------------------------------|-------------|
| English 101 .....                   | 3           | English 102 .....                   | 3           |
| Economics 109 .....                 | 2           | Economics 110 .....                 | 2           |
| Business Administration 201 .....   | 4           | Business Administration 202 .....   | 4           |
| Speech 101 .....                    | 2           | Mathematics 120 or 223 or 150 ..... | 3           |
| **Business Administration 103 ..... | 2           | Speech 102 .....                    | 2           |
| Electives .....                     | 3           | Business Administration 104 .....   | 2           |
|                                     | 16          |                                     | 16          |

#### Second Year

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------------------|-------------|-----------------------------------|-------------|
| Business Administration 215 ..... | 3           | Business Administration 216 ..... | 3           |
| Business Administration 301 ..... | 3           | Business Administration 302 ..... | 3           |
| Business Administration 305 ..... | 3           | Business Administration 304 ..... | 2           |
| Business Administration 307 ..... | 3           | Business Administration 308 ..... | 3           |
| Business Administration 404 ..... | 3           | Business Administration 405 ..... | 3           |
| Elective .....                    | 2           | Elective .....                    | 2           |
|                                   | 17          |                                   | 16          |

\*For degree curricula see pages III-17—III-19.

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

**COMBINED COLLEGE AND PROFESSIONAL COURSES**

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 College. At the end of the first year in the professional school the student then is eligible for the baccalaureate degree from Marshall College, provided that all requirements for graduation are met 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 College. Students wishing to receive a degree under this plan must file a written request for the degree in the office of the Dean before leaving Marshall College.

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 College. In order to receive the degree the student must be present at the regular Marshall College commencement, or have permission to graduate "in absentia."

Candidates for admission to the pre-medical work should include in their high school subjects: Latin 2 units, mathematics 2 units (algebra 1, geometry 1), physics 1 and chemistry 1. Students are strongly urged to present also: French 2 units, and biology 1 unit.

**CURRICULUM PREPARATORY FOR MEDICINE OR ZOOLOGY MAJORS**

For B. S. and A. B. specific requirements see page III-5

**First Year**

| <i>First Semester</i>        | <i>Hrs.</i> | <i>Second Semester</i>       | <i>Hrs.</i> |
|------------------------------|-------------|------------------------------|-------------|
| Chemistry 101 or 251 .....   | 4-5         | Chemistry 102 or 252 .....   | 4-5         |
| English 101 .....            | 3           | English 102 .....            | 3           |
| Zoology 211 .....            | 4           | Zoology 212 .....            | 4           |
| *Speech 101 or R.O.T.C. .... | 2           | *Speech 102 or R.O.T.C. .... | 2           |
| Mathematics 120 .....        | 3           | Mathematics 122 .....        | 3           |
| Pre-medical conference ..... | 0           |                              |             |
|                              | 16-17       |                              | 16-17       |

\*Speech may be postponed.

**Second Year**

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------------------|-------------|-----------------------------------|-------------|
| *Chemistry 203 or elective .....  | 4           | Chemistry 204 or 254 .....        | 4           |
| English 221 .....                 | 2           | English 222 .....                 | 2           |
| Physics 201 .....                 | 2           | Physics 203 .....                 | 2           |
| Physics 202 .....                 | 2           | Physics 204 .....                 | 2           |
| Foreign language .....            | 3           | Foreign language .....            | 3           |
| Physical Education 113 or ROTC .. | 1-2         | Physical Education 114 or ROTC .. | 1-2         |
| **Speech 101 .....                | 2           | **Speech 102 .....                | 2           |
| Electives .....                   | 2-4         | Electives .....                   | 2-3         |
| Recommended:                      |             | Recommended:                      |             |
| Geology 200 .....                 | 4           | Psychology 201 .....              | 4           |
| Sociology 231 .....               | 2           | History .....                     | 3           |
| Political Science 101 .....       | 2           | Sociology 232 .....               | 2           |
|                                   | 16-17       |                                   | 16-17       |

\*Not required if credit for 252.

\*\*Unless taken in first year.

**Third Year**

| <i>First Semester</i>  | <i>Hrs.</i> | <i>Second Semester</i>   | <i>Hrs.</i> |
|------------------------|-------------|--------------------------|-------------|
| Chemistry 355 .....    | 5           | Chemistry 356 .....      | 5           |
| Zoology 301 .....      | 4           | Zoology 302 .....        | 4           |
| Foreign language ..... | 3           | Foreign language .....   | 3           |
| Botany 203 .....       | 4           | Electives:               |             |
| Electives:             |             | Recommended:             |             |
| Recommended:           |             | History .....            | 3           |
| Zoology 307 .....      | 4           | Economics .....          | 3           |
| Psychology 308 .....   | 3           | Philosophy 303-304 ..... | 3           |
|                        | 16          |                          | 15-16       |



### Fourth Year

The senior year must include those courses needed to meet degree requirements and department major requirements.

**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.**

Special attention is called to the increasing tendency among the best medical colleges to require four years of premedical preparation. In all colleges preference is given to those applicants having such preparation. Students are urged to plan their 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 is intended to serve as a guide and may be varied to suit the individual needs of the student.

Students who are preparing themselves for medicine should keep in mind the fact that 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.

The curriculum presented above is designed to meet the needs of students preparing to enter medical colleges which require three or four years of premedical preparation. It may be altered to suit the individual student's specific need, since colleges vary somewhat in certain requirements.

Note: Those premedics requiring ten hours of general physics may take Light Laboratory (Physics 305) or Heat Laboratory (Physics 309) for the extra two hours credit.

In order to secure a favorable recommendation to a medical college the student must have a scholastic average of 2.5. The student should keep in mind, however, the fact that competition in the field of medicine is extremely severe. 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 Dental Educational Council of America 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 Chiropody, Osteopathy, Veterinary, Optometry, or any related professional school should take a course similar to that suggested above for admission to medicine. The student is advised to consult with the particular school he plans to attend to determine the exact minimum requirements for admission.

### 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 includes all required courses.



## CURRICULUM FOR DIETITIANS B. S. DEGREE

### First Year

| <i>First Semester</i>        | <i>Hrs.</i> | <i>Second Semester</i>       | <i>Hrs.</i> |
|------------------------------|-------------|------------------------------|-------------|
| English 101 .....            | 3           | English 102 .....            | 3           |
| Language .....               | 3           | Language .....               | 3           |
| Chemistry 101 .....          | 4           | Chemistry 102 .....          | 4           |
| Home Economics 202 .....     | 3           | Home Economics 203 .....     | 3           |
| Physical Education 113 ..... | 1           | Physical Education 114 ..... | 1           |
| Speech 101 .....             | 2           | Home Economics 205 .....     | 2           |
|                              | —           | Speech 102 .....             | 2           |
|                              | 16          |                              | 18          |

### Second Year

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------|-------------|------------------------|-------------|
| English 221 .....     | 2           | English 222 .....      | 2           |
| Language .....        | 3           | Language .....         | 3           |
| Zoology 211 .....     | 4           | History 312 .....      | 3           |
| History 311 .....     | 3           | Zoology 315 .....      | 4           |
| Electives .....       | 5           | Elective .....         | 4           |
|                       | 17          |                        | 16          |

### Third Year

| <i>First Semester</i>    | <i>Hrs.</i> | <i>Second Semester</i>   | <i>Hrs.</i> |
|--------------------------|-------------|--------------------------|-------------|
| Chemistry 317 .....      | 5           | Home Economics 301 ..... | 4           |
| Psychology 201 .....     | 4           | Chemistry 318 .....      | 5           |
| Economics 241 .....      | 3           | Psychology 302 .....     | 3           |
| Home Economics 300 ..... | 3           | Sociology 200 .....      | 3           |
| Electives .....          | 3           |                          | 15          |
|                          | 15          |                          |             |

### Fourth Year

| <i>First Semester</i>    | <i>Hrs.</i> | <i>Second Semester</i>   | <i>Hrs.</i> |
|--------------------------|-------------|--------------------------|-------------|
| Botany 302 .....         | 4           | Home Economics 303 ..... | 3           |
| Home Economics 405 ..... | 3           | Home Economics 304 ..... | 3           |
| Home Economics 420 ..... | 3           | Home Economics 407 ..... | 3           |
| Education .....          | 3           | Electives .....          | 7           |
| Electives .....          | 3           |                          | 16          |
| Recommended:             |             |                          |             |
| Home Ec. Educ. ....      | —           |                          |             |
|                          | 16          |                          |             |

NOTE: Concentration subject within the major division must include 26 semester hours, no more than six of which may be counted from courses in the 100 series. An A. B. degree may be earned by adding three hours of American Literature.

## CURRICULUM PREPARATORY FOR NURSING AND HEALTH FIELDS

Students planning to enter the nursing field have a distinct advantage in larger hospitals if they have a college degree. Some schools of nursing admit only college graduates.

Preference is usually given to students who have had good training in the sciences; including chemistry, botany, zoology, psychology, and sociology. Other recommended courses are: social science, public health, economics (household), dietetics, English, and modern languages.

A college degree is desirable training for staff positions.

The usual basic course in nursing is three years in length.



**LABORATORY TECHNOLOGIST\*****First Year**

| <i>First Semester</i>        | <i>Hrs.</i> | <i>Second Semester</i>       | <i>Hrs.</i> |
|------------------------------|-------------|------------------------------|-------------|
| Chemistry 101 .....          | 4           | Chemistry 102 .....          | 4           |
| Zoology 211 .....            | 4           | Psychology 201 .....         | 4           |
| English 101 .....            | 3           | English 102 .....            | 3           |
| Mathematics 120 .....        | 3           | Mathematics 122 .....        | 3           |
| Physical Education 113 ..... | 1           | Physical Education 114 ..... | 1           |
|                              | <u>15</u>   |                              | <u>15</u>   |

**Summer Term**

| <i>Hrs.</i>         | <i>Hrs.</i> |
|---------------------|-------------|
| Chemistry 203 ..... | 4           |
| Chemistry 204 ..... | 4           |

**Second Year**

| <i>First Semester</i>     | <i>Hrs.</i> | <i>Second Semester</i>    | <i>Hrs.</i> |
|---------------------------|-------------|---------------------------|-------------|
| Chemistry 317 .....       | 5           | Chemistry 318 .....       | 5           |
| Botany 302 .....          | 4           | Zoology 300 .....         | 4           |
| Physics 201 and 202 ..... | 4           | Physics 203 and 204 ..... | 4           |
| Zoology 212 .....         | 4           | Electives .....           | 3-4         |
|                           | <u>16</u>   |                           | <u>16</u>   |

Recommended electives: art, mechanical drawing, economics, foreign languages, history, mathematics, or sociology.

\*Designed to prepare students to enter professional technical schools in Medical Technology.

**PREPARATION FOR ENTRANCE TO SECOND YEAR OF FORESTRY SCHOOL**

| <i>First Semester</i>        | <i>Hrs.</i> | <i>Second Semester</i>       | <i>Hrs.</i> |
|------------------------------|-------------|------------------------------|-------------|
| English 101 .....            | 3           | English 102 .....            | 3           |
| Botany 203 .....             | 4           | Zoology 211 .....            | 4           |
| Mathematics 120 .....        | 3           | Mathematics 122 .....        | 3           |
| Chemistry 101 .....          | 4           | Geology 200 .....            | 4           |
| Physical Education 113 ..... | 1           | Chemistry 102 .....          | 4           |
| Electives .....              | 2           | Physical Education 114 ..... | 1           |
|                              | <u>17</u>   |                              | <u>19</u>   |

NOTE: Students expecting to enroll in forestry at West Virginia University must do so before July 15 for second year work.

**CURRICULUM FOR ART MAJORS  
(DIVISION OF HUMANITIES)**

For course descriptions see listing of courses in Teachers College bulletin under the heading of Art.

Students in the College of Arts and Sciences may major in Art by taking the following courses:

|   |                |
|---|----------------|
| Art 101, 102, Drawing .....                       | 6 hrs.         |
| Art 103, Principles of Drawing and Painting ..... | 3 hrs.         |
| Art 200, 305, Design .....                        | 5 hrs.         |
| Art 307, Sculpture .....                          | } 6 hrs.       |
| Art 350, Water Color Painting .....               |                |
| Art 455, Oil Painting .....                       |                |
| Art 401, 402, History of Art .....                | 6 hrs.         |
| <b>TOTAL</b> .....                                | <b>26 hrs.</b> |

Elect six hours from the following:

|                                 |         |
|---------------------------------|---------|
| Art 202, Lettering .....        | 2 hrs.  |
| Art 216, Commercial Art .....   | 3 hrs.  |
| Art 312, Art Appreciation ..... | 2 hrs.  |
| Art 306, Design .....           | 3 hrs.  |
| Art 406, Figure Drawing .....   | 3 hrs.  |
| GRAND TOTAL .....               | 32 hrs. |

### CURRICULUM FOR BIOLOGICAL SCIENCE MAJORS

The major in Biological Science has been designed for those students whose interests are divided between the fields of Botany and Zoology and whose vocational preparation requires a well-balanced background in these two fields.

A major in this field must complete 32 semester hours in Biological Science of which 12 are specifically designated in Zoology and 12 in Botany. The remaining 8 hours may be divided between the two fields or elected in either field. The major may lead to either an A. B. or a B. S. degree although the latter is recommended because of the training it provides in the other sciences and will be useful to students who plan to enter the fields of conservation, government biologist, park naturalist, wildlife technician, teaching or research.

In addition to the general and specific requirements for the A. B. or B. S. degree, majors will fulfill the following requirements:

|  |         |         |
|--|---------|---------|
| Zoology 211 .....                                | 4 hrs.  |         |
| Zoology 212 .....                                | 4 hrs.  |         |
| Zoology 301 or 302 .....                         | 4 hrs.  | 12 hrs. |
| Botany 203 .....                                 | 4 hrs.  |         |
| Botany 316 .....                                 | 4 hrs.  |         |
| Botany 302 or 315 or 304 .....                   | 4 hrs.  | 12 hrs. |
| Additional courses in Botany and/or Zoology..... | 8 hrs.  |         |
| TOTAL .....                                      | 32 hrs. |         |

Recommended:

French or German  
Geology  
Chemistry  
Psychology.

### CURRICULUM FOR GEOGRAPHY MAJORS (DIVISION OF SOCIAL SCIENCES)

For course descriptions see listing of courses in Teachers College bulletin under the heading of Geography.

Students may major in Geography 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 courses in Geography:

|  |        |
|--|--------|
| Geography 203, General Economic Geography .....                | 3 hrs. |
| Geography 205, Economic Geography of North America .....       | 3 hrs. |
| Geography 302, Economic Geography of Europe .....              | 3 hrs. |
| Geography 309, Economic Geography of Latin America .....       | 3 hrs. |
| Geography 317, World Geographical Problems .....               | 3 hrs. |
| Geography 320, Conservation of Natural Resources .....         | 3 hrs. |
| Geography 401, Historical Geography of the United States ..... | 3 hrs. |
| Geography 405, World Political Geography .....                 | 3 hrs. |

ONE of the following two courses: .....

|   |        |
|---|--------|
| Geography 312, Economic Geography of Asia .....                 | 3 hrs. |
| Geography 315, Economic Geography of Africa and Australia ..... | 3 hrs. |

TOTAL .....27 hrs.



### CURRICULUM FOR HOME ECONOMICS MAJORS (DIVISION OF SCIENCES)

For course descriptions see listing of courses in Teachers College bulletin under the heading of Home Economics.

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

|   |        |
|---|--------|
| Home Economics 104, Applied Art .....                     | 3 hrs. |
| Home Economics 125, Clothing: Introductory Course .....   | 2 hrs. |
| Home Economics 127, Textiles .....                        | 2 hrs. |
| Home Economics 202, Food Selection and Preparation .....  | 3 hrs. |
| Home Economics 203, Food Selection and Preparation .....  | 3 hrs. |
| Home Economics 205, Elementary Nutrition .....            | 2 hrs. |
| Home Economics 227, Clothing Construction .....           | 3 hrs. |
| Home Economics 303, Child Development .....               | 3 hrs. |
| Home Economics 358, Economics of the Household .....      | 2 hrs. |
| Home Economics 426, Home Management House Residence ..... | 3 hrs. |

TOTAL ..... 26 hrs.

Elect 10 hours from the following:

|  |        |
|--|--------|
| Home Economics 301, Dietetics .....                      | 4 hrs. |
| Home Economics 329, Advanced Clothing Construction ..... | 3 hrs. |
| Home Economics 350, Home Nursing .....                   | 3 hrs. |
| Home Economics 354, Home Decoration .....                | 3 hrs. |
| Home Economics 351, Home Architecture .....              | 2 hrs. |
| Home Economics 400, Consumer Buying .....                | 3 hrs. |
| Home Economics 420, Mechanics of the Household .....     | 3 hrs. |

GRAND TOTAL ..... 36 hrs.

### CURRICULUM FOR MUSIC MAJORS (DIVISION OF HUMANITIES)

For course descriptions see listing of courses in Teachers College bulletin under the heading of 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:

#### Freshman Year

| <i>First Semester</i>                 | <i>Hrs.</i> | <i>Second Semester</i>                | <i>Hrs.</i> |
|---------------------------------------|-------------|---------------------------------------|-------------|
| English 101 .....                     | 3           | English 102 .....                     | 3           |
| Speech 101 .....                      | 2           | Speech 102 .....                      | 2           |
| Foreign language .....                | 3           | Foreign language .....                | 3           |
| Physical Education .....              | 1           | Physical Education .....              | 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           |
| —                                     | —           | Music 375 .....                       | 2           |
|                                       | 15          |                                       | 17          |

**Sophomore Year**

| <i>First Semester</i>                         | <i>Hrs.</i> | <i>Second Semester</i>                    | <i>Hrs.</i> |
|---|-------------|---|-------------|
| Foreign language .....                        | 3           | Foreign language .....                    | 3           |
| English 221 .....                             | 2           | English 222 .....                         | 2           |
| 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 .....                             | 3           | Possible elective .....                   | 2           |
|   | <hr/> 17    |   | <hr/> 15-17 |

**Junior Year**

| <i>First Semester</i>                         | <i>Hrs.</i> | <i>Second Semester</i>                        | <i>Hrs.</i> |
|---|-------------|---|-------------|
| English 341 .....                             | 3           | History, Economics or Political Science ..... | 3           |
| History, Economics or Political Science ..... | 2-3         | Philosophy, Psychology or Sociology .....     | 3           |
| Science .....                                 | 4           | Science .....                                 | 3-4         |
| Music, applied (300 level) .....              | 2           | Music, applied (300 level) .....              | 2           |
| Music, ensemble (300 level) .....             | 1           | Music, ensemble (300 level) .....             | 1           |
| Science .....                                 | 4           | Electives, (300-400 level) .....              | 3           |
|   | <hr/> 16-17 |   | <hr/> 15-16 |

**Senior Year**

| <i>First Semester</i>                     | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|---|-------------|-----------------------------------|-------------|
| 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/> 16    |
|   | <hr/> 17-18 |                                   |             |

**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.



## COURSES OF INSTRUCTION

### ART

All art courses may be taken by students in the College of Arts and Sciences for credit, with the exception of Art 338.

See courses recommended for a major in Art in the College of Arts and Sciences on pages III-12—III-13. For a description of courses see Teachers College Bulletin.

### BIBLE AND RELIGION (DIVISION OF HUMANITIES)

Instructor Matthews

**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.

**210. Old Testament History.** 2 hrs. I.

The growth and development of the Hebrew people to the Greek period.

**302. Outlines of Church History.** 2 hrs. I.

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 consideration 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. II.

An examination of the factors in individual and group religious experiences.

**323. History of Religious Thought in America.** 3 hrs. I.

The rise and development of religion and of religious thinking in America.

### BOTANY (DIVISION OF SCIENCES)

Associate Professor Plymale  
Assistant Professor Mills

Requirement for the Botany Major: 26 semester hours.

|   |         |
|---|---------|
| Botany 203, 316 .....                     | 8 hrs.  |
| Botany, additional courses 300, 499 ..... | 18 hrs. |

(See page III-13 for major in Biological Science)

## COURSES OF INSTRUCTION

**203. General Botany.** 4 hrs. I, II, S.

Two hours lecture and 4 hours laboratory a week. A general study of the plant kingdom with special emphasis on the structure, function, and classification of the seed plant. Lab. fee \$2.00.

**301. Trees and Shrubs.** 2 hrs. S

Recognition of our native trees and shrubs. Lecture and field study.

**302. General Bacteriology.** 4 hrs. I, II, S

Two hours lecture and 4 hours laboratory a week. Basic microbiological techniques, fundamental principles of; microbial action, physiological processes, immunology, serology, disease process.

Prerequisites: Botany 203 (or equivalent) or one year chemistry.  
Lab. fee \$4.00.

**304. Plant Physiology.** 4 hrs.

Two hours lecture and 4 hours laboratory a week. Experimental study of growth, nutrition and responses of plants.

Prerequisite: Botany 203 or equivalent. Lab. fee \$2.00.

**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**

Two hours lecture and 4 hours laboratory a week. Characteristics of the great plant groups. Discussion of important steps in the development of plants.

Prerequisite: Botany 203 or equivalent. Lab. fee \$2.00.

**316. Local Plants. 4 hrs. II**

Two hours lecture and 4 hours laboratory a week. Recognition of our native seed plants and ferns.

Prerequisite: Botany 203 or equivalent. Lab. fee \$2.00.

**402. Bacteriology: Special Topics. 1-3 hrs.**

Prerequisite: Botany 302. Lab. fee \$4.00.

**403. Plant Pathology. 4 hrs.**

Two hours lecture and 4 hours laboratory a week. Nature, cause, and control of plant diseases.

Prerequisite: Botany 203 or equivalent. Lab. fee \$2.00.

**410. Special Topics. 1-4 hrs. I, II, S.**

By permission of Department Head.

**BUSINESS ADMINISTRATION**

Professor Jolley

Associate Professor Dorworth

Assistant Professors Dwight, Evans, C. Miller, Wood, Owen, Seaberg, Huebner  
Instructor E. Miller

Specialization in this department leads to either the A. B. or the B. S. degree. Areas of concentration within the department are: accounting, banking and finance, business management, marketing-retailing, and secretarial science.

**ALL CURRICULA****First Year**

| <i>First Semester</i>                | <i>Hrs.</i> | <i>Second Semester</i>               | <i>Hrs.</i> |
|--------------------------------------|-------------|--------------------------------------|-------------|
| English 101 .....                    | 3           | English 102 .....                    | 3           |
| Speech 101 .....                     | 2           | Speech 102 .....                     | 2           |
| Science (Arts & Science courses).... | 4           | Science (Arts & Science courses).... | 4           |
| Mathematics 120, 150, or 223 .....   | 3           | ***Business Administration 104.....  | 2           |
| *Language .....                      | 3           | *Language .....                      | 3           |
| Physical Education 113 .....         | 1           | Physical Education 114 .....         | 1           |
| Recommended Electives:               |             | Recommended Electives:               |             |
| **Bus. Adm. 103 .....                | 2           | Sociology 132 .....                  | 2           |
| Pol. Sci. 101 .....                  | 2           | Pol. Sci. 102 .....                  | 2           |

**Second Year**

| <i>First Semester</i>               | <i>Hrs.</i> | <i>Second Semester</i>              | <i>Hrs.</i> |
|-------------------------------------|-------------|-------------------------------------|-------------|
| Business Administration 215 .....   | 3           | Business Administration 216 .....   | 3           |
| or                                  |             | or                                  |             |
| Business Administration 201****.... | 4           | Business Administration 202***..... | 4           |
| Economics 241 .....                 | 3           | Economics 242 .....                 | 3           |
| English 221 .....                   | 2           | English 222 .....                   | 2           |
| Language .....                      | 3           | Language .....                      | 3           |
| Psychology 201 .....                | 4           | Geography 203 .....                 | 3           |
| Recommended Electives:              |             | Business Administration 231 .....   |             |
| Journalism 101 .....                | 2           | (Not for Marketing-Retailing)       |             |

\*Twelve hours of foreign language are required unless a student presents 2 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.

\*\*\*Required of secretarial majors.

\*\*\*\*Required for secretarial curriculum unless the student presents one unit (one year) of shorthand from high school or the equivalent. Those taking the secretarial curriculum should postpone accounting to the third year. Shorthand-Typewriting is not required in other curricula.



## ACCOUNTING CURRICULUM\*

## Third Year

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------------------|-------------|-----------------------------------|-------------|
| Business Administration 307 ..... | 3           | Business Administration 306 ..... | 3           |
| Business Administration 311 ..... | 3           | Business Administration 308 ..... | 3           |
| Business Administration 313 ..... | 2           | Business Administration 312 ..... | 3           |
| Business Administration 320 ..... | 3           | Business Administration 413 ..... | 3           |
| Economics 310 .....               | 3           | Economics 342 .....               | 3           |
| Electives .....                   | 2           | Electives .....                   | 3           |

## Fourth Year

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------------------|-------------|-----------------------------------|-------------|
| Business Administration 318 ..... | 3           | Business Administration 412 ..... | 3           |
| Business Administration 323 ..... | 3           | Business Administration 415 ..... | 3           |
| Business Administration 411 ..... | 3           | Electives .....                   | 9-10        |
| Electives .....                   | 6-7         |                                   |             |

## BANKING AND FINANCE CURRICULUM\*

## Third Year

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------------------|-------------|-----------------------------------|-------------|
| Business Administration 307 ..... | 3           | Business Administration 308 ..... | 3           |
| Business Administration 311 ..... | 3           | Business Administration 312 ..... | 3           |
| Business Administration 320 ..... | 3           | Political Science 202 .....       | 3           |
| Political Science 201 .....       | 3           | Economics 342 or 346 .....        | 3           |
| Economics 310 .....               | 3           | Electives .....                   | 3-4         |
| Electives .....                   | 3           | Recommended:                      |             |
| Recommended:                      |             | Economics, Psychology, Soci-      |             |
| Psychology, History, Econom-      |             | ology, Philosophy.                |             |
| ics, Philosophy, Sociology.       |             |                                   |             |

## Fourth Year

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------------------|-------------|-----------------------------------|-------------|
| Business Administration 323 ..... | 3           | Business Administration 318 ..... | 3           |
| Business Administration 340 ..... | 3           | Business Administration 324 ..... | 3           |
| Business Administration 434 ..... | 3           | Business Administration 350 ..... | 3           |
| Electives .....                   | 8           | Economics 320 .....               | 3           |
|                                   |             | Political Science 333 .....       | 3           |

## BUSINESS MANAGEMENT CURRICULUM\*

## Third Year

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------------------|-------------|-----------------------------------|-------------|
| Business Administration 307 ..... | 3           | Business Administration 308 ..... | 3           |
| Business Administration 311 ..... | 3           | Business Administration 312 ..... | 3           |
| Business Administration 320 ..... | 3           | Business Administration 340 ..... | 3           |
| Economics 310 .....               | 3           | Economics 346 .....               | 3           |
| Electives .....                   | 3-4         | Electives .....                   | 3-4         |

\*NOTE: Twelve hours of foreign language are required unless a student presents 2 units of one foreign language from high school.

**Fourth Year**

| <i>First Semester</i>  | <i>Hrs.</i> | <i>Second Semester</i>  | <i>Hrs.</i> |
|--|-------------|---|-------------|
| Business Administration 323 .....  | 3           | Business Administration 318 .....   | 3           |
| Business Administration 330 .....  | 3           | Business Administration 324 .....   | 3           |
| Business Administration 350 .....  | 3           | Business Administration 434 .....   | 3           |
| Electives .....  | 8-9         | Psychology 418 .....  | 3           |
| Recommended:   |             | Electives .....   | 5-6         |
| Economics, Psychology, Sociology, Philosophy, History, Political Science |             | Recommended:  |             |
|  |             | Economics, History, Psychology, Sociology, Philosophy, Political Science. |             |

**MARKETING-RETAILING CURRICULUM****Third Year**

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------------------|-------------|-----------------------------------|-------------|
| Business Administration 227 ..... | 3           | Business Administration 228 ..... | 2           |
| Business Administration 245 ..... | 3           | Business Administration 246 ..... | 3           |
| Business Administration 307 ..... | 3           | Business Administration 340 ..... | 3           |
| Business Administration 330 ..... | 3           | Electives .....                   | 8-9         |
| Electives .....                   | 5-6         | Recommended:                      |             |
|                                   |             | Bus. Adm. 412 .....               | 3 hrs.      |
|                                   |             | Bus. Adm. 350 .....               | 3 hrs.      |

**Fourth Year**

| <i>First Semester</i>                  | <i>Hrs.</i> | <i>Second Semester</i>                   | <i>Hrs.</i> |
|--|-------------|--|-------------|
| Business Administration 343 .....      | 3           | Business Administration 344 .....        | 3           |
| Business Administration 345 .....      | 3           | Business Administration 346 .....        | 3           |
| Business Administration 443 .....      | 3           | Business Administration 446 .....        | 2           |
| Business Administration 445 .....      | 2           | Psychology 418 .....                     | 3           |
| Electives:                             |             | Electives:                               |             |
| History 308 and other 300-400 courses. |             | Bus. Adm. 444 and other 300-400 courses. |             |

**SECRETARIAL CURRICULUM****Third Year**

| <i>First Semester</i>                              | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|--|-------------|-----------------------------------|-------------|
| Business Administration 215 .....                  | 3           | Business Administration 216 ..... | 3           |
| Business Administration 301 .....                  | 3           | Business Administration 302 ..... | 3           |
| Business Administration 304 .....                  | 2           | Business Administration 305 ..... | 3           |
| Electives .....                                    | 8           | Electives .....                   | 7           |
| Recommended:                                       |             |                                   |             |
| Psychology, Sociology, History, Political Science. |             |                                   |             |

**Fourth Year**

| <i>First Semester</i>                | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|--------------------------------------|-------------|-----------------------------------|-------------|
| Business Administration 307 .....    | 3           | Business Administration 308 ..... | 3           |
| Bus. Administration 318 or 340 ..... | 3           | Business Administration 405 ..... | 3           |
| Business Administration 404 .....    | 3           | Electives .....                   | 9           |
| Psychology 418 .....                 | 3           |                                   |             |
| Electives .....                      | 8           |                                   |             |

**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.

Prerequisite: Business Administration 103 or one year of high school typewriting.



**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.

Prerequisite or corequisite: 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.

Prerequisite: 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.

**227. Retail Salesmanship. 2 hrs. I, II**

Phases of salesmanship in retailing. Attitudes; necessary knowledge of store, merchandise, and customer; techniques that stimulate buying; building of permanent business.

To be carried concurrently with Business Administration 245.

**228. Problems in Retail Salesmanship. 2 hrs. II**

Problems pertaining to store policies and relationships, customer contacts, and personality development. Conferences with coordinator on individual problems.

To be carried concurrently with Business Administration 246.

**231. Principles of Selling. 2 hrs. I, II**

Elements in successful selling; knowledge, personality, preapproach standardized canvass, relationships to management.

**245-246. 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, fifteen hours per week under supervision of coordinator.

To be carried concurrently with Business Administration 227-228.

**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.

Prerequisite: 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.

Prerequisite: 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**

Hectograph and stencil duplicating, voice writing, key-driven calculating, adding-listing, and small desk machines.

Prerequisite: Business Administration 104.

**306. Accounting Office Machines. 3 hrs. I, II.**

Calculators, posting, specialized accounting, and adding-listing machines.

Prerequisite: 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. Advanced Accounting. 3 hrs. each. I, II.**

Principles and problems of valuation, analysis, and formal presentation of accounting data.

Prerequisite: 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.

Prerequisites: Economics 242 and Business Administration 216.

**330. Principles of Advertising. 3 hrs. II**

Copy, layout, production, media, copy research, techniques.

**340. Principles of Marketing. 3 hrs. I**

Institutions, channels of distribution, functions, federal regulation, and economics of marketing.

**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.

Prerequisite: Business Administration 227 or permission of instructor.

**344. Store Organization and Management. 3 hrs. II**

Questions of store organization in various types of retail stores. Layout and location, planning and controlling store expenses, budgets; non-selling departments.

Prerequisite: Business Administration 343 or permission of instructor.

**345-346. Cooperative Store Service. 3 hrs. each. I, II.**

Continuation of work in retail establishments as in Business Administration 245 and 246, with emphasis on type of retail work chosen by student with counsel of coordinator. Working-time minimum, fifteen hours per week under supervision of coordinator.

Prerequisites: Business Administration 245 and 246.

**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.

Prerequisite: Business Administration 340.

**355. Accounting for Engineers. 3 hrs. II**

Introduction to accounting with particular emphasis on Industrial applications.

Open only to students majoring in Engineering.



**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.

Prerequisite or corequisite: Business Administration 301 and 305.

**405. Office Practice and Management. 3 hrs. II.**

Work in cooperating business offices for a minimum of fifteen hours per week at prevailing rate of pay.

Prerequisite: Business Administration 404.

**411. Cost Accounting. 3 hrs. I.**

Principles of industrial cost accounting; job order, departmental, and process costs.

Prerequisite: 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.

Prerequisite: Business Administration 216.

**413. Auditing. 3 hrs. II.**

Theory and procedures; legal and social responsibilities of the auditor.

Prerequisite: Business Administration 312 or permission of instructor.

**415. Federal Taxation. 3 hrs. I, II.**

Problems and procedures of income tax accounting.

Prerequisites: 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.

**434. Investments. 3 hrs. II.**

The nature, forms, and principles of investment; institutions for facilitating investment.

**443. Retail Buying. 3 hrs. I.**

Scientific planning and selection of merchandise for retail stores; buyer's responsibilities; the determination of what and how much to buy, where and how to buy; brands and labeling; trade relations.

Prerequisites: Business Administration 344 or permission of instructor.

**444. Retail Training Technique. 3 hrs. II.**

Methods of testing for retail employment; retail personnel records; periodic personnel review; the development of a training program; sources of training material; training for junior executives; the development and maintenance of good employer-employee relationships.

Prerequisite: Business Administration 343, 344, or permission of instructor.

**445. Merchandising I. 2 hrs. I.**

Managerial problems pertaining to sales inventory, purchase planning, and open-to-buy; discounts and datings; operating statements; retail method of inventory; initial, maintained, and gross margin; expense analysis and distribution.

Prerequisite or corequisite: Business Administration 443.

**446. Merchandising II. 2 hrs. II.**

Sales planning in dollars and in variable prices; sales expense and mark-up relationships; mark-up and mark-down planning; stock planning; departmental analysis; financial statement analysis.

Prerequisite: Business Administration 445.

**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 III-3 for rules and general information.

**CHEMISTRY**

Professors Scholl, Bartlett, Rumble  
Associate Professor Whelpley  
Assistant Professors Hoback, Williams  
Instructor Galford

The purposes of this department are:

To offer the student adequate training in the field of chemistry in order to enable him to gain employment as a professional chemist or to enter a school that offers graduate training in chemistry.

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

To offer elementary courses to students who have had no previous training in chemistry and may need a limited knowledge of the subject to satisfy the requirements of other departments or to satisfy their own desire for some acquaintance with the subject.

The curricula:

The requirements for the four curricula offered by the department are outlined below. The purpose of each is given with the program.

1. The professional program leading to the Bachelor of Science Degree in Chemistry (B. S. in CHEM), should be elected by all students planning to make chemistry their life work. Placement is usually in the more responsible industrial positions (control, development or research), with government agencies or in graduate schools as Assistants or Fellows.

**First Year**

| <i>First Semester</i>        | <i>Hrs.</i> | <i>Second Semester</i>       | <i>Hrs.</i> |
|------------------------------|-------------|------------------------------|-------------|
| Chemistry 251* .....         | 5           | Chemistry 252 .....          | 5           |
| English 101 .....            | 3           | English 102 .....            | 3           |
| German 101** .....           | 3           | German 102 .....             | 3           |
| Mathematics 190 .....        | 5           | Mathematics 191 .....        | 5           |
| Physical Education 113 ..... | 1           | Physical Education 114 ..... | 1           |
|                              | 17          |                              | 17          |

**Second Year**

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------|-------------|------------------------|-------------|
| Chemistry 253 .....   | 4           | Chemistry 254 .....    | 4           |
| Mathematics 325 ..... | 4           | Mathematics 326 .....  | 4           |
| German 223 .....      | 3           | German 224 .....       | 3           |
| Physics 201 .....     | 3           | Physics 203 .....      | 3           |
| Physics 202 .....     | 2           | Physics 204 .....      | 2           |
|                       | 16          |                        | 16          |

\*Chemistry 101, 102 and 203 may be substituted for chemistry 251 and 252. Chemistry 203 will be taken during the Summer term following the first years work.

\*\*If credits in High School German are presented upon entrance then the student may elect French. A reading knowledge of scientific German is required for this degree.



**Third Year**

| <i>First Semester</i>  | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|------------------------|-------------|------------------------|-------------|
| Chemistry 355 .....    | 5           | Chemistry 356 .....    | 5           |
| Chemistry 453 .....    | 3           | Chemistry 454 .....    | 3           |
| Economics 241 .....    | 3           | Economics 242 .....    | 3           |
| History .....          | 3           | History .....          | 3           |
| Physics Elective ..... | 3           | Physics Elective ..... | 3           |
| —                      | —           | —                      | —           |
|                        | 17          |                        | 17          |

**Fourth Year**

| <i>First Semester</i>       | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------------|-------------|------------------------|-------------|
| Chemistry 457 .....         | 5           | Chemistry 458 .....    | 5           |
| Chemistry 405 .....         | 2           | Chemistry 466 .....    | 4           |
| Psychology 318 .....        | 2           | Philosophy 304 .....   | 3           |
| Physics Lab. Elective ..... | 2           | Speech 305 .....       | 2           |
| Electives .....             | 3           | —                      | —           |
| —                           | —           |                        | 14          |
|                             | 14          |                        |             |

2. The Liberal Arts program leading to the Bachelor of Arts Degree, (AB), with a major in chemistry, may be elected by pre-professional students (medicine, dentistry, pharmacy, veterinary medicine) planning to complete a degree before entering a professional school.

**First Year**

| <i>First Semester</i>       | <i>Hrs.</i> | <i>Second Semester</i>      | <i>Hrs.</i> |
|-----------------------------|-------------|-----------------------------|-------------|
| *Chemistry 101 or 251 ..... | 4-5         | *Chemistry 102 or 252 ..... | 4-5         |
| English 101 .....           | 3           | English 102 .....           | 3           |
| Zoology 211 .....           | 4           | Zoology 212 .....           | 4           |
| Mathematics 120 .....       | 3           | Mathematics 122 .....       | 3           |
| Speech 101 .....            | 2           | Speech 102 .....            | 2           |
| —                           | —           | —                           | —           |
|                             | 16 or 17    |                             | 16 or 17    |

**Second Year**

| <i>First Semester</i>  | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|------------------------|-------------|------------------------|-------------|
| Chemistry 203 .....    | 4           | Chemistry 204 .....    | 4           |
| English 221 .....      | 2           | English 222 .....      | 2           |
| Physics 201 .....      | 2-3         | Physics 203 .....      | 2-3         |
| Physics 202 .....      | 2           | Physics 204 .....      | 2           |
| Foreign Language ..... | 3           | Foreign Language ..... | 3           |
| Sociology 200 .....    | 3           | Economics 241 .....    | 3           |
| Physical Ed. 113 ..... | 1           | Physical Ed. 114 ..... | 1           |
| —                      | —           | —                      | —           |
|                        | 17 or 18    |                        | 17 or 18    |

**Third Year**

| <i>First Semester</i>  | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|------------------------|-------------|------------------------|-------------|
| Chemistry 355 .....    | 5           | Chemistry 356 .....    | 5           |
| Zoology 301** .....    | 4           | Zoology 302** .....    | 4           |
| Foreign Language ..... | 3           | Foreign Language ..... | 3           |
| Botany 302 .....       | 4           | History 312 .....      | 3           |
| —                      | —           | —                      | —           |
|                        | 16          |                        | 15          |

\*If Chemistry 251 and 252 are taken then Chemistry 253 and 254 must be substituted for Chemistry 203 and 204 in the second year.

\*\*Zoology 301 and 302 may be replaced by other science or mathematics when approved by the head of the chemistry department.

## Fourth Year

| <i>First Semester</i>                            | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|--|-------------|------------------------|-------------|
| Chemistry 453 .....                              | 3           | Chemistry 454 .....    | 3           |
| English 341 .....                                | 3           | English 342 .....      | 3           |
| Psychology 315 or 318 or<br>Philosophy 306 ..... | 3           | Philosophy 304 .....   | 3           |
| History 313 .....                                | 3           | Electives .....        | 6           |
| Chemistry 405 .....                              | 2           |                        | 15          |
| Electives .....                                  | 2           |                        |             |
|  | 16          |                        |             |

3. The Technical Secretarial Course, leading to the Bachelor of Science Degree, (B.S.), should be elected by students planning to seek secretarial employment in a chemical or allied industry.

## First Year

| <i>First Semester</i>  | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|------------------------|-------------|------------------------|-------------|
| Chemistry 101 .....    | 4           | Chemistry 102 .....    | 4           |
| English 101 .....      | 3           | English 102 .....      | 3           |
| Mathematics 120 .....  | 3           | Mathematics 122 .....  | 3           |
| German 101 .....       | 3           | German 102 .....       | 3           |
| Bus. Adm. 103* .....   | 2           | Bus. Adm. 104 .....    | 2           |
| Physical Ed. 113 ..... | 1           | Physical Ed. 114 ..... | 1           |
|                        | 16          |                        | 16          |

## Second Year

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------|-------------|------------------------|-------------|
| Chemistry 203 .....   | 4           | Chemistry 204 .....    | 4           |
| English 221 .....     | 2           | English 222 .....      | 2           |
| Bus. Adm. 201 .....   | 4           | Bus. Adm. 202 .....    | 4           |
| Physics 201 .....     | 2           | Physics 203 .....      | 2           |
| Physics 202 .....     | 2           | Physics 204 .....      | 2           |
| German 223 .....      | 3           | German 224 .....       | 3           |
|                       | 17          |                        | 17          |

## Third Year

| <i>First Semester</i>    | <i>Hrs.</i> | <i>Second Semester</i>   | <i>Hrs.</i> |
|--------------------------|-------------|--------------------------|-------------|
| Chemistry 317 .....      | 5           | Chemistry 318 .....      | 5           |
| Bus. Adm. 215 .....      | 3           | Bus. Adm. 216 .....      | 3           |
| Bus. Adm. 301 .....      | 3           | Bus. Adm. 302 .....      | 3           |
| Sociology 200 .....      | 3           | Philosophy 304 .....     | 3           |
| History 311 or 308 ..... | 3           | History 312 or 313 ..... | 3           |
|                          | 17          |                          | 17          |

## Fourth Year

| <i>First Semester</i>    | <i>Hrs.</i> | <i>Second Semester</i>           | <i>Hrs.</i> |
|--------------------------|-------------|----------------------------------|-------------|
| Chemistry 405 .....      | 2           | Chemistry Elective .....         | 4-3         |
| Bus. Adm. 305 .....      | 2           | Bus. Adm. 304 .....              | 1           |
| Bus. Adm. 307 .....      | 3           | Bus. Adm. 308 .....              | 3           |
| Bus. Adm. 404 .....      | 3           | Speech 306 .....                 | 3           |
| Speech 305 .....         | 2           | Elective Econ. or Pol. Sci. .... | 3           |
| Chemistry Elective ..... | 2-3         |                                  | 14 or 13    |
|                          | 14 or 15    |                                  |             |

\*If typing has been taken in high school this course may be replaced by Psychology 100.



4. The Laboratory Technologist course leading to the degree of Associate in Science, (A.S.) should be elected by students interested in entering a professional school in Medical Technology or in securing employment as a technician in an industrial or health laboratory.

The detailed program is outlined on page III-12 of this catalogue.

### CHEMISTRY COURSES OF INSTRUCTION

Note: All laboratory courses in chemistry require a laboratory fee and a laboratory deposit. Three (3) clock hours of laboratory work are considered equivalent to one credit hour.

- 101. General.** 4 hrs. I, II, S.  
Fee \$8.00, deposit \$5.00.  
Prerequisite: one unit of high school mathematics or Mathematics 50.
- 102. General.** 4 hrs. I, II, S.  
Fee \$8.00, deposit \$5.00.  
Prerequisite: Chemistry 101.
- 203. Qualitative Analysis.** 4 hrs. I, S.  
Fee \$8.00, deposit \$5.00.  
Prerequisite: Chemistry 102 and algebra.
- 204. Quantitative Analysis.** 4 hrs. II, S.  
Fee \$8.00, deposit \$10.00.  
Prerequisite: Chemistry 203 or 252 and Mathematics 122.
- 205. Quantitative Analysis.** 2 hrs. I, II.  
Fee \$8.00, deposit \$10.00.  
Open to all engineering students except those with chemistry major.  
Prerequisite: Chemistry 102.
- 251. Inorganic.** 5 hrs. I.  
Fee \$8.00, deposit \$5.00.  
Open to all students majoring in chemistry, engineering, physics, and medicine. High school chemistry recommended.  
Prerequisite: one unit of high school mathematics.
- 252. Inorganic and Qualitative Analysis.** 5 hrs. II.  
Fee \$8.00, deposit \$10.00.  
Prerequisite: Chemistry 251.
- 253. Analytical.** 4 hrs. I.  
Fee \$8.00, deposit \$10.00.  
A study of inorganic gravimetric analysis.  
Prerequisite: Chemistry 203 or 252 and Mathematics 122.
- 254. Analytical.** 4 hrs. II.  
Fee \$8.00, deposit \$10.00.  
Prerequisite: Chemistry 253.
- 317. Organic.** 5 hrs. I.  
Fee \$10.00, deposit \$10.00.  
An elementary study of aromatic and aliphatic organic compounds.  
Open to students in home economics, dietetics, medical technology, and technical secretarial courses.  
Prerequisite: Chemistry 102.
- 318. Physiological.** 5 hrs. II.  
Fee \$10.00, deposit \$10.00.  
Open to all students in home economics, dietetics, medical technology and technical secretarial courses.  
Prerequisite: Chemistry 317.

- 355. Organic.** 5 hrs. I.  
Fee \$10.00, deposit \$10.00.  
A study of aliphatic organic compounds.  
Prerequisite: Chemistry 204 or 254.
- 356. Organic.** 5 hrs. II.  
Fee \$10.00, deposit \$10.00.  
A study of aromatic organic compounds.  
Prerequisite: Chemistry 355.
- 401-402. Special Topics.** 1 to 4 hrs. I, II.  
Deposit \$10.00.  
Work to consist of a special laboratory problem in one field of chemistry.  
By permission of department head.
- 403. Inorganic.** 2 hrs.  
Open to seniors and graduate students.  
Prerequisite: Chemistry 356.
- 405. Report Writing.** 2 hrs. I.  
Fee \$8.00, deposit \$10.00.  
Prerequisite: physical science major, junior or senior standing.
- 453. Water and Gas Analysis.** 3 hrs. I.  
Fee \$10.00, deposit \$10.00.  
Prerequisite: Chemistry 204 or 254.
- 454. Liquid and Solid Fuels.** 3 hrs. II.  
Fee \$10.00, deposit \$10.00.  
Prerequisite: Chemistry 355.
- 457. Physical.** 5 hrs. I.  
Fee \$10.00, deposit \$15.00.  
Prerequisite: Chemistry 356, 10 hrs. physics, Mathematics 326.
- 458. Physical.** 5 hrs. II.  
Fee \$10.00, deposit \$15.00.  
Prerequisite: Chemistry 457.
- 466. Organic Qualitative.** 4 hrs. II.  
Fee \$8.00, deposit \$10.00.  
Prerequisite: Chemistry 356.
- 467. Chemical Principles.** 3 hrs. I.  
Prerequisite: Chemistry 458.
- 468. Chemical Principles.** 3 hrs. II.  
Prerequisite: Chemistry 467.

### ECONOMICS

(DIVISION OF SOCIAL SCIENCES)

Associate Professors Munn and Corrie

Instructor Land

Economics deals with the problems of how groups make their living. It explains how the wealth and income of localities, regions, and nations is produced, exchanged, consumed, and shared.

Prices, taxation, money and credit, capitalism and socialism, government regulation of business, employment and international trade are typical subjects of economic study.

For intelligent citizenship for all students, and especially for students interested in medicine, law, labor relations, personnel work, government service, business management, science, or engineering, economics is a valuable and often indispensable field of study.



A major in economics must fulfill the general requirements for the A. B. or B. S. degree and in addition must complete 26 hours in courses in economics (sophomore level or above) chosen with the advice of the department head.

The following courses outside the department are suggested for majors in economics: Botany 305; Business Administration \*215 and \*216, 307 and 308, \*311 and \*312, \*318, 323, 324, 340, 350, 434; French and German.

For those planning advanced study: Geography 203, 205, 320 and 410; Geology 422; History courses stressing economic implications; Political Science 323, 333, 420; Philosophy 304, 410; Psychology 201 and 418; Sociology 200, 311, 401 and 404.

\*Especially recommended.

## ECONOMICS

### COURSES OF INSTRUCTION

**109-110. Introduction to Economics.** 2-2 hrs. I, II.

Introductory economics course for freshmen in the two-year college curriculum.

**241-242. Principles of Economics.** 3-3 hrs. I, II.

Principles and practices associated with the production, exchange, and distribution of wealth and income.

Prerequisite: sophomore standing.

**255. Economics for Engineers.** 3 hrs. II.

One semester principles course in economics for engineers.

Prerequisite: sophomore standing. Engineers only.

**260. Current Economic Problems.** 3 hrs.

Application of economic principles to current problems of taxation, inflation, foreign aid, labor relations, etc.

Prerequisite: Economics 241.

**310. Money and Banking.** 3 hrs. I, II.

Money and banking principles and institutions with special attention to the Federal Reserve System.

Prerequisite: Economics 242 or 340.

**312. Public Utilities Economics.** 3 hrs.

The economic, institutional, and legal background of business practice for firms in the utility field excluding transportation.

Prerequisite: Economics 242 or 340.

**320. Public Finance.** 3 hrs. II.

The theory and policy of financing local, state, and federal governments.

Prerequisite: Economics 242 or 340.

No credit if Economics 403 has been taken.

**342. Economic Development of the United States.** 3 hrs. II.

Economic and institutional factors and trends in the history of the United States.

Prerequisite: Economics 242 or 340.

**346. Labor Problems.** 3 hrs. I, II.

Labor and industrial relations problems from the standpoint of employees, employers, and the public.

Prerequisite: Economics 242, 255, or 340.

**348. Labor and Government.** 3 hrs. II.

An historical and analytical study of contemporary laws and court decisions having to do with labor, including the laws of collective bargaining, minimum wage, injunction, railway labor, arbitration, etc.

Prerequisite: Economics 242 or 340.

**351. Government and Business.** 3 hrs.

Government as an aid, or as a regulator, or actual competitor in private business, including agriculture, banking insurance, transportation, etc.

Prerequisite: Economics 242 or 340.

**356. Collective Bargaining Problems.** 3 hrs.

Questions at issue (and their legal, economic, and political background) in the negotiation and administration of a union contract, including hours, wages, work speeds, safety matters, pensions, etc.

Prerequisite: Economics 346 or consent of instructor.

**402. Business Cycles.** 3 hrs. II.

Theories of cause, and proposed solutions of the problem of economic fluctuations (inflation and depression).

Prerequisite: Economics 310 and junior standing or consent of instructor.

No credit if Economics 308 has been taken.

**408. Contemporary Economic Systems.** 3 hrs. I.

The theories and policies of capitalism, socialism, and fascism. (Also recommended for non-majors.)

Prerequisite: Economics 242 or 340 and junior standing or consent of instructor.

No credit if Economics 350 has been taken.

**412. The American Contribution to Economic Thought.** 3 hrs. II.

Deals with the theory of value, welfare, and progress—largely the product of American scholars.

Prerequisite: 6 hours of advanced economics and senior standing.

**440. Classical Economics.** 3 hrs. I.

Classical economic theory from the Physiocrats to John Stuart Mill.

Prerequisite: Economics 242 or 340 and junior standing.

No credit if Economics 443 has been taken.

**444. Contemporary Economic Theory.** 3 hrs. I.

Economic thought from Marshall to Keynes.

Prerequisite: Economics 242 or 340 and junior standing.

**461-465. Seminar in Special Topics.** 2 to 4 hrs. I, II.

To teach, as the occasion arises, any standard economics topic not listed among the usual course offerings.

Prerequisite: Economics 242 or 340, junior standing, and consent of instructor.

**491-495. Research Problems.** 2 to 4 hrs. I, II.

A particular problem or problems may be assigned a student who needs work beyond the courses scheduled if such student is judged competent to carry on supervised research.

Prerequisite: 6 hours advanced work in economics and consent of instructor, head of department of economics, and dean of the college in which the student is taking his major.

## ENGINEERING

Professor McCaskey  
Assistant Professor Stinson  
Instructor Urian

The Engineering Department offers two programs: first, a four-year General Engineering course leading to the degree of Bachelor of Engineering Science; second, the first two years of college engineering work leading to the professional degree. The curriculum has been so arranged that it can be made to conform, in general, to the curricula of leading engineering colleges. A student who has satisfactorily completed the two years offered here may enter



as a junior in any engineering college and obtain an engineering degree after two additional years there. For the student to gain entry as a junior in other schools, the engineering adviser must know the selected college so that the curriculum here can be planned to fit the individual case.

Students who have completed 100 or more hours of college work are classified as seniors; students who have completed 65 to 99 hours are classified as juniors; students who have completed 30 to 64 hours are classified as sophomores; and students who have completed none to 29 hours are classified as freshmen.

### ENGINEERING CURRICULUM

#### Freshman and Sophomore years of the Specialist Curriculum.

##### First Year

| <i>First Semester</i>        | <i>Hrs.</i>      | <i>Second Semester</i>       | <i>Hrs.</i> |
|------------------------------|------------------|------------------------------|-------------|
| English 101 .....            | 3                | English 102 .....            | 3           |
| Mathematics 190 .....        | 5                | Mathematics 191 .....        | 5           |
| Chemistry 251 .....          | 5                | Chemistry 252 .....          | 5           |
| Engineering 110 .....        | 3                | Engineering 201 or 210 ..... | 2           |
| Physical Education 113 ..... | 1                | Engineering 208 .....        | 3           |
| Engineering 100 .....        | $\frac{1}{2}$    | Physical Education 114 ..... | 1           |
|                              | <hr/>            |                              | <hr/>       |
|                              | 17 $\frac{1}{2}$ |                              | 19          |

##### Summer Session Following First Year

| <i>Hrs.</i>                  | <i>Hrs.</i> |
|------------------------------|-------------|
| Engineering 201 .....        | 2           |
| Engineering 207 or 215 ..... | 2           |

##### Second Year

##### Required in All Curricula

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------|-------------|------------------------|-------------|
| Mathematics 325 ..... | 4           | Mathematics 326 .....  | 4           |
| Physics 201 .....     | 3           | Physics 203 .....      | 3           |
| Physics 202 .....     | 2           | Physics 204 .....      | 2           |
| Economics 255 .....   | 3           | Engineering 306 .....  | 3           |
|                       | <hr/>       |                        | <hr/>       |
|                       | 12          |                        | 12          |

##### Required in Civil Engineering

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------|-------------|------------------------|-------------|
| Chemistry 205 .....   | 2           | Engineering 353 .....  | 3           |
| Engineering 320 ..... | 4           | Geology 200 .....      | 4           |
|                       | <hr/>       |                        | <hr/>       |
|                       | 6           |                        | 7           |

##### Required in Chemical Engineering

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------|-------------|------------------------|-------------|
| Chemistry 253 .....   | 5           | Chemistry 254 .....    | 5           |
| Engineering 210 ..... | 2           | Speech 101 .....       | 2           |
|                       | <hr/>       |                        | <hr/>       |
|                       | 7           |                        | 7           |

##### Required in Electrical Engineering

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------|-------------|------------------------|-------------|
| Engineering 212 ..... | 2           | Engineering 340 .....  | 2           |
| Elective .....        | 3           | Elective .....         | 3           |
|                       | <hr/>       |                        | <hr/>       |
|                       | 5           |                        | 5           |

**Required in Mechanical Engineering**

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------|-------------|-----------------------------------|-------------|
| Chemistry 205 .....   | 2           | Engineering 209 .....             | 4           |
| Speech 101 .....      | 2           | Business Administration 355 ..... | 3           |
| Engineering 210 ..... | 2           |                                   | 7           |
|                       | 6           |                                   |             |

**Required in Mining Engineering**

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------|-------------|------------------------|-------------|
| Geology 200 .....     | 4           | Chemistry 205 .....    | 2           |
| Electives .....       | 4           | Geology 300 .....      | 3           |
|                       | 8           | Elective .....         | 2           |
|                       |             |                        | 7           |

**GENERAL ENGINEERING CURRICULUM****For the Degree of Bachelor of Engineering Science**

The purpose of this 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 specialized 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 differing from the requirements of specialized engineering curricula, in preparation for technical employment in such subjects as economics and business administration, in preparation for employment in industrial or governmental positions not classified as engineering but where basic engineering training is desirable.

By the end of the sophomore year students must elect one of the optional curricula offered and they should make this selection earlier if possible. The choice of electives in each of these programs is subject to the approval of the engineering adviser. Certain substitutions may be made in the curricula with the permission and approval of the head of the department of engineering and the Dean of the College of Art and Sciences.

**GENERAL ENGINEERING CURRICULUM****(GENERAL OPTION)****First Year**

| <i>First Semester</i>        | <i>Hrs.</i> | <i>Second Semester</i>       | <i>Hrs.</i> |
|------------------------------|-------------|------------------------------|-------------|
| Chemistry 101 .....          | 4           | Chemistry 102 .....          | 4           |
| English 101 .....            | 3           | English 102 .....            | 3           |
| Engineering 100 .....        | 1½          | Engineering 200 .....        | 2           |
| Engineering 110 .....        | 3           | Engineering 208 .....        | 3           |
| Mathematics 190 .....        | 5           | Mathematics 191 .....        | 5           |
| Physical Education 113 ..... | 1           | Physical Education 114 ..... | 1           |
|                              | 16½         |                              | 18          |

**Summer Session Following First Year**

| <i>Hrs.</i>           | <i>Hrs.</i> |
|-----------------------|-------------|
| Engineering 201 ..... | 2           |
| Engineering 215 ..... | 2           |



**Second Year**

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------|-------------|------------------------|-------------|
| Engineering 210 ..... | 2           | Chemistry 205 .....    | 2           |
| Engineering 320 ..... | 4           | Engineering 306 .....  | 3           |
| Engineering 321 ..... | 2           | Engineering 353 .....  | 3           |
| Mathematics 325 ..... | 4           | Mathematics 326 .....  | 4           |
| Physics 201 .....     | 3           | Physics 203 .....      | 3           |
| Physics 202 .....     | 2           | Physics 204 .....      | 2           |
|                       | 17          |                        | 17          |

**Third Year**

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------|-------------|-----------------------------------|-------------|
| Botany 302 .....      | 4           | Economics 346 .....               | 3           |
| Economics 255 .....   | 3           | Engineering 322 .....             | 3           |
| Engineering 213 ..... | 2           | Engineering 353 .....             | 3           |
| Engineering 307 ..... | 4           | Engineering 350 .....             | 1½          |
| Geology 200 .....     | 4           | Engineering 400 .....             | 3           |
| Elective .....        | 2           | Business Administration 307 ..... | 3           |
|                       | 19          | Speech 305 .....                  | 2           |
|                       |             | Elective .....                    | 2           |
|                       |             |                                   | 18½         |

**Summer Work**

Construction or Industrial Experience and Report

**Fourth Year**

| <i>First Semester</i>     | <i>Hrs.</i> | <i>Second Semester</i>    | <i>Hrs.</i> |
|---------------------------|-------------|---------------------------|-------------|
| Engineering 330 .....     | 3           | Engineering 352 .....     | 2           |
| Engineering 351 .....     | 2           | Engineering 401 .....     | 3           |
| Engineering 402 .....     | 2           | Engineering 405 .....     | 3           |
| Engineering 403 .....     | 4           | Engineering Society ..... | 0           |
| Engineering 404 .....     | 4           | Inspection Trip .....     | 0           |
| Engineering Society ..... | 0           | Bus. Adm. 355 .....       | 3           |
| Psychology 318 .....      | 2           | Electives .....           | 6           |
|                           | 17          |                           | 17          |

**Suggested Electives**

|                                   | <i>Hrs.</i> |                       | <i>Hrs.</i> |
|-----------------------------------|-------------|-----------------------|-------------|
| Business Administration 308 ..... | 3           | Engineering 207 ..... | 2           |
| Business Administration 420 ..... | 3           | Engineering 209 ..... | 4           |
| Chemistry 401 .....               | 1-4         | Engineering 406 ..... | 3           |
| Chemistry 402 .....               | 1-4         | Engineering 410 ..... | 3           |
| Geology 310 .....                 | 3           | Mathematics 435 ..... | 3           |
| Geology 422 .....                 | 3           | Philosophy 304 .....  | 3           |

Engineering students electing the four-year R.O.T.C. program may offer a maximum of 12 hours of Military Science and Tactics toward the B. E. S. Degree in this option in lieu of electives and Physical Education 113 and 114.

**GENERAL ENGINEERING CURRICULUM****(Business Administration Option)****First Year**

(Same as General Option; see Page III-31)

**Summer Session Following First Year**

|                       |             |                       |             |
|-----------------------|-------------|-----------------------|-------------|
|                       | <i>Hrs.</i> |                       | <i>Hrs.</i> |
| Engineering 201 ..... | 2           | Engineering 215 ..... | 2           |

**Second Year**

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------------------|-------------|-----------------------------------|-------------|
| Business Administration 215 ..... | 3           | Business Administration 216 ..... | 3           |
| Economics 241 .....               | 3           | Economics 242 .....               | 3           |
| Engineering 321 .....             | 2           | Engineering 306 .....             | 3           |
| Mathematics 325 .....             | 4           | Mathematics 326 .....             | 4           |
| Physics 201 .....                 | 3           | Physics 203 .....                 | 3           |
| Physics 202 .....                 | 2           | Physics 204 .....                 | 2           |
|                                   | 17          |                                   | 18          |

**Third Year**

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------------------|-------------|-----------------------------------|-------------|
| Business Administration 231 ..... | 2           | Business Administration 312 ..... | 3           |
| Business Administration 311 ..... | 3           | Business Administration 411 ..... | 3           |
| Business Administration 323 ..... | 3           | Chemistry 205 .....               | 2           |
| Economics 310 .....               | 3           | Economics 346 .....               | 3           |
| Engineering 307 .....             | 4           | Engineering 322 .....             | 3           |
| Speech 305 .....                  | 2           | Engineering 350 .....             | ½           |
|                                   | 17          | Engineering 400 .....             | 3           |
|                                   |             |                                   | 17½         |

**Summer Work**

Construction or Industrial Experience and Report

**Fourth Year**

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------------------|-------------|-----------------------------------|-------------|
| Business Administration 307 ..... | 3           | Business Administration 308 ..... | 3           |
| Business Administration 340 ..... | 3           | Business Administration 420 ..... | 3           |
| Engineering 402 .....             | 2           | Engineering 401 .....             | 3           |
| Engineering 403 .....             | 4           | Engineering Society .....         | 0           |
| Engineering 404 .....             | 4           | Inspection Trip .....             | 0           |
| Engineering Society .....         | 0           | Engineering 330 .....             | 3           |
| Elective .....                    | 2           | Psychology 318 .....              | 2           |
|                                   | 18          | Elective .....                    | 4           |
|                                   |             |                                   | 18          |

**Suggested Electives**

|                             |       | <i>Hrs.</i> |                       |       | <i>Hrs.</i> |
|-----------------------------|-------|-------------|-----------------------|-------|-------------|
| Business Administration 324 | ..... | 3           | Engineering 210       | ..... | 2           |
| Business Administration 330 | ..... | 3           | Engineering 213       | ..... | 2           |
| Chemistry 401               | ..... | 1-4         | Engineering 320       | ..... | 4           |
| Chemistry 402               | ..... | 1-4         | Engineering 340       | ..... | 2           |
| English 221                 | ..... | 2           | Engineering 351       | ..... | 2           |
| English 222                 | ..... | 2           | Philosophy 304        | ..... | 3           |
| Engineering 207             | ..... | 2           | Political Science 301 | ..... | 3           |
| Engineering 209             | ..... | 4           |                       |       |             |

Engineering students electing the four-year R.O.T.C. program may offer a maximum of 8 hours of Military Science and Tactics toward the B. E. S. Degree in this option in lieu of electives and Physical Education 113 and 114.

**GENERAL ENGINEERING CURRICULUM****(Chemistry Option)****First Year**

(Same as General Option; see page III-31; except Chemistry 251 and 252 in lieu of Chemistry 101 and 102.)



**Summer Session Following First Year**

|                       | <i>Hrs.</i> |                       | <i>Hrs.</i> |
|-----------------------|-------------|-----------------------|-------------|
| Engineering 201 ..... | 2           | Engineering 215 ..... | 2           |

**Second Year**

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------|-------------|------------------------|-------------|
| Chemistry 253 .....   | 4           | Chemistry 254 .....    | 4           |
| Engineering 210 ..... | 2           | Engineering 306 .....  | 3           |
| Engineering 321 ..... | 2           | Mathematics 326 .....  | 4           |
| Mathematics 325 ..... | 4           | Physics 203 .....      | 3           |
| Physics 201 .....     | 3           | Physics 204 .....      | 2           |
| Physics 202 .....     | 2           | Elective .....         | 1           |
|                       | 17          |                        | 17          |

**Third Year**

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|-----------------------|-------------|-----------------------------------|-------------|
| Chemistry 355 .....   | 5           | Business Administration 307 ..... | 3           |
| Economics 255 .....   | 3           | Chemistry 356 .....               | 5           |
| Engineering 213 ..... | 2           | Engineering 322 .....             | 3           |
| Engineering 307 ..... | 4           | Engineering 340 .....             | 2           |
| Engineering 403 ..... | 4           | Engineering 350 .....             | 1½          |
|                       | 18          | Engineering 400 .....             | 3           |
|                       |             |                                   | 16½         |

**Summer Work**

Construction or Industrial Experience and Report

**Fourth Year**

| <i>First Semester</i>     | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|---------------------------|-------------|-----------------------------------|-------------|
| Chemistry 457 .....       | 5           | Chemistry 458 .....               | 5           |
| Engineering 330 .....     | 3           | Engineering 401 .....             | 3           |
| Engineering 351 .....     | 2           | Business Administration 355 ..... | 3           |
| Engineering 402 .....     | 2           | Engineering Society .....         | 0           |
| Engineering 404 .....     | 4           | Inspection Trip .....             | 0           |
| Engineering Society ..... | 0           | Speech 305 .....                  | 2           |
| Elective .....            | 3           | Elective .....                    | 3           |
|                           | 19          |                                   | 16          |

**Suggested Electives**

| <i>Hrs.</i>           |     | <i>Hrs.</i>           |   |
|-----------------------|-----|-----------------------|---|
| Chemistry 401 .....   | 1-4 | Engineering 320 ..... | 4 |
| Chemistry 402 .....   | 1-4 | Engineering 352 ..... | 2 |
| Chemistry 403 .....   | 2   | Mathematics 435 ..... | 3 |
| Chemistry 453 .....   | 3   | Philosophy 304 .....  | 3 |
| Chemistry 454 .....   | 3   | Psychology 318 .....  | 2 |
| Chemistry 466 .....   | 4   | Economics 346 .....   | 3 |
| Engineering 209 ..... | 4   |                       |   |

Engineering students electing the four-year R.O.T.C. program may offer a maximum of 9 hours of Military Science and Tactics toward the B. E. S. Degree in this option in lieu of electives and Physical Education 113 and 114.

**GENERAL ENGINEERING CURRICULUM****Geology Option****First Year**

(Same as General Option; see page III-31)

## Summer Session Following First Year

|                       | <i>Hrs.</i> |                       | <i>Hrs.</i> |
|-----------------------|-------------|-----------------------|-------------|
| Engineering 201 ..... | 2           | Engineering 207 ..... | 2           |

## Second Year

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------|-------------|------------------------|-------------|
| Economics 255 .....   | 3           | Engineering 306 .....  | 3           |
| Engineering 321 ..... | 2           | Chemistry 205 .....    | 2           |
| Geology 200 .....     | 4           | Geology 300 .....      | 3           |
| Mathematics 325 ..... | 4           | Mathematics 326 .....  | 4           |
| Physics 201 .....     | 3           | Physics 203 .....      | 3           |
| Physics 202 .....     | 2           | Physics 204 .....      | 2           |
|                       | <u>18</u>   |                        | <u>17</u>   |

## Third Year

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i>   |
|-----------------------|-------------|------------------------|---------------|
| Engineering 307 ..... | 4           | Engineering 322 .....  | 3             |
| Engineering 320 ..... | 4           | Engineering 340 .....  | 2             |
| Engineering 213 ..... | 2           | Engineering 350 .....  | 1/2           |
| Geology 310 .....     | 3           | Engineering 353 .....  | 3             |
| Geology 314 .....     | 3           | Engineering 400 .....  | 3             |
| Speech 305 .....      | 2           | Geology 313 .....      | 3             |
|                       | <u>18</u>   | Geology 321 .....      | 3             |
|                       |             |                        | <u>17 1/2</u> |

## Summer Work

Construction or Industrial Experience and Report

## Fourth Year

| <i>First Semester</i>     | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|---------------------------|-------------|-----------------------------------|-------------|
| Engineering 402 .....     | 2           | Business Administration 307 ..... | 3           |
| Engineering 403 .....     | 4           | Engineering 352 .....             | 2           |
| Engineering 404 .....     | 4           | Engineering 401 .....             | 3           |
| Engineering Society ..... | 0           | Business Administration 355 ..... | 3           |
| Geology 418 .....         | 3           | Engineering Society .....         | 0           |
| Geography 320 .....       | 3           | Inspection Trip .....             | 0           |
| Elective .....            | 3           | Geology 401 .....                 | 2           |
|                           | <u>19</u>   | Geology 422 .....                 | 3           |
|                           |             |                                   | <u>16</u>   |

## Suggested Electives

|                   | <i>Hrs.</i> |                       | <i>Hrs.</i> |
|-------------------|-------------|-----------------------|-------------|
| Botany 203 .....  | 4           | Engineering 405 ..... | 3           |
| Geology 303 ..... | 3           | Geology 402 .....     | 2           |
| Geology 315 ..... | 3           | Geology 415 .....     | 3           |
| Geology 350 ..... | 3           | Psychology 318 .....  | 2           |
| Geology 400 ..... | 1 or 2      | Economics 346 .....   | 3           |

Engineering students electing the four-year R.O.T.C. program may offer a maximum of 5 hours of Military Science and Tactics toward the B. E. S. Degree in this option in lieu of electives and Physical Education 113 and 114.

Junior and senior courses in Geology may be offered in semester other than shown.



**GENERAL ENGINEERING CURRICULUM****(Physics Option)****First Year**

(Same as General Option; see page III-31)

**Summer Session Following First Year**

|                       | <i>Hrs.</i> |                       | <i>Hrs.</i> |
|-----------------------|-------------|-----------------------|-------------|
| Engineering 201 ..... | 2           | Engineering 215 ..... | 2           |

**Second Year**

| <i>First Semester</i>             | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------------------|-------------|------------------------|-------------|
| Business Administration 307 ..... | 3           | Engineering 209 .....  | 4           |
| Engineering 210 .....             | 2           | Engineering 306 .....  | 3           |
| Engineering 321 .....             | 2           | Mathematics 326 .....  | 4           |
| Mathematics 325 .....             | 4           | Physics 203 .....      | 3           |
| Physics 201 .....                 | 3           | Physics 204 .....      | 2           |
| Physics 202 .....                 | 2           | Physics 307 .....      | 2           |
| Speech 101 .....                  | 2           |                        |             |
|                                   | 18          |                        | 18          |

**Third Year**

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------|-------------|------------------------|-------------|
| Economics 255 .....   | 3           | Chemistry 205 .....    | 2           |
| Engineering 213 ..... | 2           | Economics 346 .....    | 3           |
| Engineering 307 ..... | 4           | Engineering 322 .....  | 3           |
| Mathematics 435 ..... | 3           | Engineering 340 .....  | 2           |
| Physics 300 .....     | 3           | Engineering 350 .....  | 1½          |
| Physics 301 .....     | 2           | Engineering 400 .....  | 3           |
|                       | 17          | Physics 302 .....      | 3           |
|                       |             | Physics 303 .....      | 2           |
|                       |             |                        | 18½         |

**Summer Work**

Construction or Industrial Experience and Report

**Fourth Year**

| <i>First Semester</i>     | <i>Hrs.</i> | <i>Second Semester</i>            | <i>Hrs.</i> |
|---------------------------|-------------|-----------------------------------|-------------|
| Engineering 330 .....     | 3           | Engineering 401 .....             | 3           |
| Engineering 351 .....     | 2           | Engineering 410 .....             | 3           |
| Engineering 402 .....     | 2           | Business Administration 355 ..... | 3           |
| Engineering 403 .....     | 4           | Engineering Society .....         | 0           |
| Engineering Society ..... | 0           | Inspection Trip .....             | 0           |
| Physics 304 or 314 .....  | 3           | Physics 308 .....                 | 3           |
| Physics 305 or 315 .....  | 2           | Physics 309 .....                 | 2           |
| Physics 401 .....         | 3           | Elective .....                    | 1           |
|                           | 19          |                                   | 15          |

**Suggested Electives**

|                       | <i>Hrs.</i> |                             | <i>Hrs.</i> |
|-----------------------|-------------|-----------------------------|-------------|
| Engineering 352 ..... | 2           | Philosophy 304 .....        | 3           |
| Engineering 404 ..... | 4           | Political Science 201 ..... | 3           |
|                       |             | Psychology 318 .....        | 2           |

Engineering students electing the four-year R.O.T.C. program may offer a maximum of 3 hours of Military Science and Tactics toward the B. E. S. Degree in this option in lieu of electives and Physical Education 113 and 114.

## ENGINEERING

## Courses of Instruction

- 100. Engineering Orientation.**  $\frac{1}{2}$  hr. I.  
Lectures to acquaint students with engineering profession.  
Required of all engineering freshmen.
- 110. Mechanical Drawing.** 3 hrs. I, II.  
Orthographic projection, lettering, technical sketching. Three 3 hr. laboratories.  
Prerequisite: entrance mathematics requirements.
- 200. Machine Work.** 3 hrs. I, II.  
Use of metal lathe, drill press, shaper, milling machine, foundry practice.  
Prerequisite: Engineering 110.
- 201. Plane Surveying.** 2 hrs. I, S.  
Elementary theory of measurement of distance, direction and difference in elevation. Field work with transit, level, tape, and stadia. Office computations and plotting. One hour recitation, 3 hrs. laboratory.  
Prerequisite: Engineering 110 and Mathematics 122.
- 207. Structural Drafting.** 2 hrs. I, S.  
Lettering, symbols, detail drawings, pencil and ink tracings of steel, wood, and concrete structures. Two 3 hr. laboratories.  
Prerequisite: Engineering 110.
- 208. Descriptive Geometry.** 3 hrs. I, II, S.  
Theory of orthographic projection. One hour recitation, two 3 hr. laboratories.  
Prerequisite: Engineering 110.
- 209. Mechanism.** 4 hrs. II.  
Graphical and analytical kinematics of machines. Two hrs. recitation, two 3 hr. laboratories.  
Prerequisites: Engineering 215 and Mathematics 326, or concurrently.
- 210. Welding and Heat Treatment.** 2 hrs. I, II.  
Cutting, Oxy-acetylene and arc welding, tempering and heat treatment. Formerly Engineering 210 and 211.
- 213. Electrical Equipment.** 2 hrs. I, II.  
Introduction to electrical laboratory equipment and procedure.  
Prerequisites: Physics 203 and 204, or concurrently.
- 215. Elements of Machine Design.** 2 hrs. I, S.  
Empirical Design, standard commercial parts, machine drawing. Two 3 hr. laboratories.  
Prerequisites: Engineering 110 and 200.
- 306. Statics.** 3 hrs. I, II.  
Static equilibrium by algebraic and graphic methods, chains and cords, friction, centers of gravity, moments of inertia. Three hrs. recitation.  
Prerequisites: Mathematics 326, or concurrently, and Physics 201.
- 307. Mechanics of Materials.** 4 hrs. I, II.  
Strength of materials, shear and moment diagrams, stresses in riveted joints, shafts, beams and columns, combined stresses, deflection. Four hours recitation.  
Prerequisite: Engineering 306.
- 320. Advanced Surveying.** 4 hrs. I.  
City and topographic surveys, field astronomy, triangulation, office computations and plotting. Three hrs. recitation, 3 hrs. laboratory.  
Prerequisite: Engineering 201.



- 321. Engineering Problems.** 2 hrs. I.  
Elementary engineering problems, recording engineering computations. Two hrs. recitation.  
Prerequisite: Mathematics 122 and 223.
- 322. Engineering Problems.** 3 hrs. II.  
Problems in engineering economy. Three hours recitation.  
Prerequisite: Engineering 321.
- 330. Elementary Machine Design.** 3 hrs. I.  
Design of machine elements by rational and empirical methods. Two hours recitation, 3 hrs. laboratory.  
Prerequisites: Engineering 215, 307, 400, or concurrently.
- 340. Elements of Electrical Engineering.** 2 hrs. II.  
Two hrs. recitation.  
Prerequisite: Mathematics 326 or concurrently, Engineering 212, or concurrently.
- 350. Engineering Seminar.**  $\frac{1}{2}$  hr. II.  
Special problems in mechanics of materials. One hr. recitation.  
Prerequisite: Engineering 307.
- 351. Special Topics in Engineering.** 2 hrs. I.  
Design of an engineering project. Two hrs. recitation.  
Prerequisite: Engineering 307.
- 352. Special Topics in Engineering.** 2 hrs. II.  
Two hrs. recitation.  
Prerequisite: Engineering 307.
- 353. Route Surveying.** 3 hrs. II.  
Simple, compound, spiral and vertical curves, earthwork. Two hrs. recitation, 3 hrs. laboratory.  
Prerequisite: Engineering 201.
- 400. Kinetics.** 3 hrs. I, II.  
Laws of moving bodies, work and energy, relative motion, rotating masses. Three hrs. recitation.  
Prerequisite: Engineering 306.
- 401. Hydraulics.** 3 hrs. II.  
Mechanics of fluids. Three hrs. recitation.  
Prerequisite: Engineering 306.
- 402. Materials of Construction.** 2 hrs. I.  
Properties of building materials and materials testing. One hr. recitation, 3 hrs. laboratory.  
Prerequisite: Engineering 307.
- 403. Engineering Report Writing.** 4 hrs. I.  
Technical reports, business letters. Four hrs. recitation.  
Prerequisite: English 102 and junior standing.
- 404. Structural Engineering.** 4 hrs. I, II.  
Stress analysis and structural design. Steel, timber, concrete. Three hrs. recitation, 3 hrs. laboratory.  
Prerequisite: Engineering 307.
- 405. Reinforced Concrete Design.** 3 hrs. II.  
Stress analysis and design of reinforced concrete structures and structural elements. Two hrs. recitation, 3 hrs. laboratory.  
Prerequisite: Engineering 307.
- 406. Structural Engineering.** 3 hrs. II.  
Continuation of Engineering 404. Two hrs. recitation, 3 hrs. laboratory.  
Prerequisite: Engineering 404.

**410. Machine Design.** 3 hrs. II.

Continuation of Engineering 330, including dynamical and vibrational analysis of machines and advanced stress analysis. Two hrs. recitation, 3 hrs. laboratory.

Prerequisites: Engineering 209, 330, and Mathematics 435.

**Summer Work.** Students will be required to secure at least eight weeks' practical construction or industrial experience by employment. A brief report will be required. Attendance at advanced R.O.T.C. summer camp will satisfy this requirement. Required of all candidates for the B. E. S. degree.

**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 Society.** Presentation of technical papers. Required of all candidates for the B. E. S. degree.

**ENGLISH**

(Division of Humanities)

Professors Sechler, Wehler, Brown

Associate Professors Baxter, Flower, Pollitt, Stender, White

Assistant Professors Harvey, Hepburn, Rice, Washington

Instructors Jones, Starkey, Barker

The Department of English aims first, to train students to express themselves completely and accurately in writing and, secondly, to teach them to appreciate literature as a fine art and as the expression of the genius of a people. English 101-102 are required of all freshmen and are prerequisites to all subsequent English courses. English 221-222 are required of all candidates for A. B. and B. S. degrees and are prerequisites to all subsequent English literature courses, except English 341-342.

Requirements for the English Major: 32 semester hours.

(Effective for students entering on or after September 1, 1950)

|                                      |          |
|--------------------------------------|----------|
| English Composition 101-102 .....    | 6 hours  |
| English Literature 221-222 .....     | 4 hours  |
| American Literature 341 or 342 ..... | 3 hours  |
| World Literature 402 .....           | 3 hours  |
| Creative Writing 377 or .....        | 3 hours  |
| The English Language 405 or .....    | 3 hours  |
| Literary Criticism 455 .....         | 3 hours  |
| Shakespeare 325 or .....             | 3 hours  |
| Chaucer 411 or .....                 | 3 hours  |
| Milton 409 .....                     | 3 hours  |
| Electives in English .....           | 10 hours |

32 hours

English majors should take work in allied fields at the suggestion of their advisers.

**COURSES OF INSTRUCTION****101-102. English Composition.** 3-3 hrs. I, II.

English 101 prerequisite to 102.

**210. Biography.** 2 hrs.

A study of the literary type.

**221-222. English Literature.** 2-2 hrs. I, II.

Appreciation of literary forms from major authors.

**302. Elizabethan Drama.** 3 hrs.

Non-Shakespearean drama from middle of the 16th to middle of 17th centuries.

**307. Modern Drama.** 3 hrs.

Modern British and American dramatists.



- 316. Contemporary English and American Poets.** 2 hrs.  
Twentieth Century English and American Poets.
- 317. The Development of the English Novel.** 3 hrs.  
A general history of the English novel to the contemporary period.
- 325. Shakespeare.** 3 hrs.  
An appreciation of the plays of Shakespeare.
- 329. Modern Novel.** 3 hrs.  
A survey of modern British and American novels.
- 331. The Short Story.** 3 hrs.  
Types of short stories with emphasis on modern American writers.
- 332. Tennyson and Browning.** 3 hrs. No credit if Eng. 305 or 318 has been taken.  
The most important poems of the two authors related to the Victorian Age.
- 335. Literature of the Renaissance and Reformation.** 2 hrs.  
Non-dramatic literature from early Renaissance to the Reformation.  
No credit if English 315 has been taken.
- 341. American Literature to 1870.** 3 hrs.  
Prerequisites: English 102 or 104. Not open to freshmen.
- 342. American Literature from 1870.** 3 hrs.  
Prerequisites: English 102 or 104.
- 351. Development of the English and American Drama.** 3 hrs.  
From the Elizabethan age to the present.
- 377. Creative Composition.** 3 hrs.  
Practice in literary forms for those interested in creative writing.  
Prerequisites: English 102 or 104 and consent of the instructor.
- 402. World Literature.** 3 hrs.  
Selections from the literature of great nations ancient and modern, excluding English and American.
- 405. Study of the English Language.** 3 hrs.  
The growth, structure, and present usages of the English language.
- 407. Anglo-Saxon.** 3 hrs.  
Elements of Old English with selected readings. Primarily for seniors expecting to do graduate work.
- 408. Advanced Expository Writing.** 3 hrs.  
Instruction in the preparation of reports, theses, briefs, abstracts and other expository types. Material adapted to the needs of the individual student.
- 409. Milton and His Contemporaries.** 3 hrs.  
Milton, Donne, Browne and others related to the intellectual background of the century.
- 410. Studies in English Literature of the Eighteenth Century.** 3 hrs.  
A selected group of writers related to the intellectual background of the century.
- 411. Chaucer.** 3 hrs.  
The background of and influences on the author and his major works in the original tongue.
- 420. Senior Seminar in English Literature.** 3 hrs.  
An advanced study of the forms and movements in English literature.  
An individual piece of research will be required.  
Prerequisite: senior standing; major in English and consent of instructor.

**436. Early and Medieval Literature. 2 hrs.**

First ten centuries of English literature exclusive of Chaucer. No credit if English 328 has been taken.

**444. Emerson, Poe, Whitman. 3 hrs.****445. Poetry of Robinson and Frost. 3 hrs.****446. Drama of the Restoration and Eighteenth Century. 3 hrs.**

Seniors and graduate students only.

**447. Studies in the Romantic Poets. 3 hrs.**

Seniors and graduate students only. No credit if English 321 or 344 has been taken.

**455. Literary Criticism. 3 hrs.**

History of literary criticism with application of principles.

**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.

Refer to page III-3 for rules and general information.

**FRENCH****(DIVISION OF HUMANITIES)**

Associate Professor Noble

Assistant Professor Parrish

The Department of French is organized to serve the interests of those who are studying French as a means to a liberal education and of those who desire a more intensive training in the language. With mastery of the French language comes the ability to use it as a tool in various fields of activity, as well as a deeper appreciation of the genius of the French people whose history, literature, and art have made such great contributions to our own civilization.

**REQUIREMENTS FOR THE FRENCH MAJOR**

(Effective for students entering September, 1947, and thereafter.)

26 semester hours

A student with no previous training in French must complete the following requirements:

1. Beginning French, 121-122 .....6 hours
2. Intermediate French, 223, 224 .....6 hours
3. Oral French and Composition
  - Choose a or b
  - a. One semester of Oral French .....2 hours
  - b. One semester of Composition .....3 hours
4. Literature and Civilization
  - Choose a or b
  - a. Literature .....6 hours
  - b. Literature and Civilization. ....7 hours
5. Electives from groups 3 and 4 above, 5 or 6 hours.

In the case of students with previous training in French, prerequisites may be affected by results of placement tests. See Page I-31 of this catalogue.

In general, however, students having one unit of high school French should take French 122, those having two units should take French 223, and those having three should take French 224, each group having proportionately more time for the advanced courses listed under 3 and 4 above.

**COURSES OF INSTRUCTION****121-122. First Year French. 3-3 hrs. I, II.**

Study of pronunciation, grammar, verbs, vocabulary, and French civilization with emphasis on the oral approach.

Prerequisite for 122: French 121 or one unit of high school French.



**223-224. Intermediate French.** 3-3 hrs. I, II.

Intensive and extensive reading, composition, grammar review, irregular verbs, dictées, and conversation. Modern novels, short stories, and plays afford suggestive materials for conversational practice.

Prerequisite for 223: French 122 or two units of high school French.

Prerequisite for 224: French 223 or three units of high school French.

**241-242. Intermediate Oral French.** 2-2 hrs. I, II.

Study of principles of French pronunciation and phonetics and practice in their application with use of tape recorder and phonograph records, vocabulary building, and conversational practice.

Prerequisite for 241: French 122 or two units of high school French.

Prerequisite for 242: French 241 or consent of instructor.

**315-316. Advanced Composition and Reading.** 3-3 hrs. I, II.

Study of vocabulary, idioms, and difficult constructions. Idiomatic translation and free composition together with intensive reading. Recommended for majors and those wishing to increase their power of expression in writing.

Prerequisite for 315: French 224.

Prerequisite 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 the great comedies of Moliere and the theatre of Corneille.

Prerequisite: French 224.

**328.\* Seventeenth Century Literature.** 3 hrs.

Study of the theatre of Racine and of selected works of Descartes, Pascal, and other prose classicists together with those of La Fontaine, Boileau, and others of the Golden Age of French literature.

Prerequisite: French 224.

**355-356. French Civilization and Culture.** 2-2 hrs. I, II.

A survey of the origins and main aspects of French culture from prehistoric to modern times. As far as possible, this course will be conducted in French and full language credit will be given.

Prerequisite 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.

Prerequisite for 361: French 224 or consent of instructor.

Prerequisite for 362: French 361 or consent of instructor.

**435. Nineteenth Century Literature.** 3 hrs.

A presentation of the French romantic movement as exemplified in the poetry, drama, and the novel of the period. Representative works of Chateaubriand, Lamartine, de Vigny, Victor Hugo, de Musset, and others are studied.

Prerequisite: French 224 and consent of instructor.

**436. Nineteenth Century Literature.** 3 hrs.

A presentation of realistic and naturalistic fiction from Balzac to Flaubert, Maupassant, and Zola and of realism in the theatre. Selected poems of Baudelaire, the Parnassians, and the Symbolists are also studied.

Prerequisite: French 224 and consent of instructor.

\*Will not be given in 1952-53.

**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 of literature of interest to them. Readings, conferences, and reports.

Prerequisite: 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 III-3 for rules and general information.

**GEOLOGY****(DIVISION OF SCIENCES)**

Professor Janssen

Assistant Professor Stewart

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.

Geology majors must complete at least 26 semester hours of credit within the department. Thirty hours are recommended, however, to meet civil service requirements or fulfill entrance requirements to most graduate schools.

A major in geology may be obtained under either the A. B. or B. S. degree. The latter is usually preferred because the curriculum provides wider study in related fields of science. A combined geology-engineering major is also obtainable (see Engineering Department, Geology Option). In addition to meeting the "General and Specific" requirements of the degree as outlined on foregoing pages, the curriculum of geology majors must include the following courses.

**Curriculum for Geology Majors**

|  |          |
|--|----------|
| Geology 200, 300, and 310 .....  | 10 hours |
| Geology, minimum additional courses .....  | 16 hours |
| Botany 203 .....   | 4 hours  |
| Chemistry .....  | 8 hours  |
| English 377 or 408 .....   | 3 hours  |
| Foreign language (German or French recommended,<br>Spanish is acceptable for petroleum<br>geologists, but may not meet eventual<br>Ph. D. requirements.) ..... | 12 hours |
| Geography 320 .....  | 3 hours  |
| History 312 or 313 .....   | 3 hours  |
| Zoology 211 .....  | 4 hours  |

In addition to the above requirements, the following are recommended as electives, particularly if future graduate study is anticipated:

|   |            |
|---|------------|
| Botany 316 .....                          | 4 hours    |
| Economics 241 .....                       | 3 hours    |
| Engineering 110, 201, and 320 .....       | 2-9 hours  |
| Geography 203, 205, and 325 .....         | 2-8 hours  |
| German 223 and 224 .....                  | 3-6 hours  |
| Journalism 402 .....                      | 3 hours    |
| Physics (required for B. S. degree) ..... | 8 hours    |
| Political Science 201 and 202 .....       | 3-6 hours  |
| Speech 207 and 306 .....                  | 3-6 hours  |
| Zoology 212, 402, and 409 .....           | 3-10 hours |

**COURSES OF INSTRUCTION**

A \$2.00 science fee, payable to the Financial Secretary, is charged for each laboratory course taken.



**200. General Introductory Geology.** 4 hrs. I, II.

Origin and nature of the earth, geological processes, common rocks and minerals. Lecture 3 hrs.; laboratory 2 hrs.; field trips.

**300. Historical Geology.** 3 hrs. I, II.

Chronological development of the earth, sequence of geologic ages, rock formations, and evolution of life as revealed by fossils.

Prerequisite: Geology 200.

**303. Introductory Meteorology.** 3 hrs. I.

Weather and climate, phenomena of the atmosphere, elementary principles of weather forecasting. Lecture 2 hrs.; laboratory 2 hrs.

**310. Map Reading & Interpretation.** 3 hrs. I.

History and theory of map projections; practice in use of topographic contour maps and aerial photographs.

**313. Structural Geology.** 3 hrs. II.

Analysis and classification of secondary structures common to all classes of rocks; their relationships and stresses which caused them.

Prerequisite: Geology 200.

**314. Mineralogy.** 3 hrs. I.

Identification, classification, origin, occurrence, and economic uses of minerals. Lecture 2 hrs.; laboratory 2 hrs.

Prerequisite: Geology 200 or consent of instructor.

**315. Geology of West Virginia.** 3 hrs. I.

Geologic history, rock formations, fossils, land features, and mineral resources of the state.

Prerequisite: Geology 200 or consent of instructor.

**321. Petrology.** 3 hrs. II.

Identification and classification of igneous, sedimentary, and metamorphic rocks; origin, occurrence, economic and geologic uses. Lecture 2 hrs.; laboratory 2 hrs.

Prerequisite: Geology 314.

**350. Physiography of North America.** 3 hrs. II.

Surface features of the continent as resulting from their structural, orogenic, and erosional origins.

Prerequisite: Geology 200.

**400. Special Topics in Geology.** 1 or 2 hrs. I, II.

Independent study or a project in some phase of geology, with results embodied in a written report or term paper. Majors and minors only. Science fee \$2.00 if laboratory facilities are required.

Prerequisite: 10 hrs. of geology.

**401. Field Problems in Geology.** 2 hrs. I, II.

Independent field work in local geology; field methods and practice; results embodied in a written field report. Majors and minors only. Science fee \$2.00 if laboratory facilities are required.

Prerequisite: 10 hrs. of geology.

**402. Research Problems in Geology.** 2 hrs. I, II.

Independent research in a selected phase of geology; research methods and practice; results embodied in a written report. Majors and minors only. Science fee \$2.00 if laboratory facilities are required.

Prerequisite: 10 hrs. of geology.

**418. Paleontology.** 3 hrs. I. (Formerly 318)

Fossil animal and plant life; its development, evolution, and dominance through the geologic ages. Recommended for biological science majors.

Prerequisite: Geology 300 or graduate status.

**422. Economic Geology.** 3 hrs. II. (Formerly 322)

Nature, origin, distribution, and uses of the world's commercially valuable mineral and rock resources.

Prerequisite: Geology 300 (and 314 recommended) or graduate status.

**451. Geomorphology.** 3 hrs. II.

Geologic nature and origins of the world's land forms.

Prerequisite: Geology 200 (and 350 recommended) or graduate status.

**GERMAN****(DIVISION OF HUMANITIES)**

Assistant Professors Lieberman, Perl

An intimate acquaintance and appreciation of the German language, history, literature, philosophy, art, music, and science are essential to students who desire a liberal or professional education. The department recommends 12 hours of German, at least, for majors in physical and social sciences, engineering and music.

Requirements for German majors: 26 hrs., including 101, 102, 203, 204, 317, 318, 301 or their equivalent.

NOTE: Prerequisites for students with previous training in German may be affected by results of placement tests.

**101-102. First year German.** 3-3 hrs. I, II.

Grammar, pronunciation, syntax, conversation and translation of easy text from a graded German reader on the cultural history of Germany. No credit for 101 without 102.

Prerequisite for 102: German 101 or one unit of high school German.

**203.-204. Intermediate German.** 3-3 hrs. I, II.

Review of important grammatical constructions, reading and translation of moderately difficult text from short stories, selections from Goethe's "Faust" and Schiller's "Wilhelm Tell." Lectures on the literary and cultural movements of Germany from Humanism to the present time.

Prerequisite for 203: German 102 or 2 years of high school German or equivalent.

Prerequisite for 204: German 203 or 3 units of high school German or equivalent.

**223. Elementary Scientific German.** 3 hrs. I.

Reading of easy scientific texts in the fields of chemistry, physics, zoology, botany and geology.

Prerequisite: German 102 or equivalent.

**224. Intermediate Scientific German.** 3 hrs. II.

Reading of moderately difficult text from the above mentioned fields and discussion of translation difficulties.

Prerequisite: German 223.

**301. Drama of the 18th, 19th, and 20th Centuries.** 3 hrs. I, II.

Important dramas of Lessing, Goethe, Schiller, Kleist, Grillparzer, Hebbel and Hauptmann. Lectures on the movements of Classicism, Romanticism, Realism and Naturalism.

Prerequisite: German 204 or equivalent.

**302. Novels of the 18th, 19th and 20th Centuries.** 3 hrs. I, II.

Novels and short stories of Goethe, Schiller, Kleist, Grillparzer, Raabe, Stifter, Auerbach, Keller, Meyer, Storm, Hauptmann, Thomas Mann and Werfel. Lectures surveying the development of the German novel.

Prerequisite: German 204 or equivalent.

**309. Conversation.** 2 hrs. I.

Discussion of simple topics.

Prerequisite: German 102 or 2 years of high school German.

Does not count toward completion of foreign language requirement.



**310. Conversation.** 2 hrs. II.

Discussion of contemporary incidents based on the reading of German newspapers and periodicals.

Prerequisite: German 309 or equivalent.

Does not count toward completion of foreign language requirement.

**313. Scientific German.** 3 hrs. I, II.

Translation of difficult scientific articles from periodicals and textbooks. Training in the use of scientific German dictionaries.

Prerequisite: German 204 or equivalent.

**317. Survey of German Literature.** 3 hrs. I.

Important literary documents of the old, middle and new High German periods up to Klopstock with stress on the Nibelungen, Gudrun, Walter von der Vogelweide, Wolfram von Eschenbach, and Gottfried von Strassburg. Lectures tracing Richard Wagner's "Nibelungen," "Parzival," and "Tristan und Isolde" to the Middle High German period.

Prerequisite: German 204 or equivalent.

**318. Survey of German Literature.** 3 hrs. II.

From 1750 to the present. Important literary movements represented by Herder, Wieland, Lessing, Schiller, Kleist, Grillparzer, Hebbel, Heine, Raabe, Stifter, Meyer, Gerhart Hauptmann, Wassermann, Thomas Mann and Werfel.

Prerequisite: German 204 or equivalent.

**407-408. Goethe's Faust.** 3-3 hrs. I, II.

Reading of "Faust" Parts I. and II. Historical background and Faust legend, Goethe's life and works as related to Faust, supplemented by lectures on the philosophical views of the poem and its influence on contemporary and subsequent authors.

Prerequisite for 407: German 204 or equivalent.

Prerequisite for 408: 407. Open to juniors.

**GREEK****(DIVISION OF HUMANITIES)**

Professor Whitsel

The Department of Greek serves students who wish a knowledge of Greek for purely cultural purpose as well as those who intend to use it as a tool in science or theology.

**201-202. First Year Greek.** 3-3 hrs. I, II.

No credit for 201 without 202.

**301-302. Selections from Homer.** 3-3 hrs. I, II.**303-304. Selections from Greek Tragedy.** 3-3 hrs. I, II.**335. Hellenic Civilization.** 3 hrs. I.

Greek life and thought from earliest times to the Roman Conquest. Illustrated lectures on archaeology.

No knowledge of Greek required. Does not count toward completion of foreign language requirement.

**HISTORY****(DIVISION OF SOCIAL SCIENCES)**

Professors Toole, Heath

Associate Professors Moffat, Cometti

**Requirement of history major:**

Thirty-two semester hours, including History 221-222, and History 311-312-313.

**COURSES OF INSTRUCTION**

- 105. English History to 1660. 3 hrs. I, II.
- 106. English History Since 1660. 3 hrs. I, II.
- 207. History of West Virginia and the Trans-Allegheny Frontier. 3 hrs. I, II.
- 219. Early European History: from Earliest Times to the Fifth Century A. D. 3 hrs. I.
- 220. European History, 400-1500 A. D. 3 hrs. II.
- 221. European History, 1492-1815. 3 hrs. I, II.
- 222. Modern Europe Since 1815. 3 hrs. I, II.
- 301. Hispanic America. 3 hrs. II.
- 308. Social and Economic History of the South. 3 hrs.
- 309. Social and Economic History of the West. 3 hrs.
- 311. American History, 1492-1789. 3 hrs. I, II.
- 312. American History, 1789-1865. 3 hrs. I, II.
- 313. American History Since 1865. 3 hrs. I, II.
- 402. American Diplomacy. 3 hrs. I.
- 420. Makers of European History. 3 hrs.
- 421. The Era of the Renaissance and the Reformation. 3 hrs.
- 422. The French Revolution and the Napoleonic Era. 3 hrs.
- 425. European History, 1814-1914. 3 hrs.
- 426. European History, 1914 to the Present. 3 hrs.
- 427. Russia in the 19th and 20th Centuries. 3 hrs.
- 432. American History Since 1914. 3 hrs.

**HOME ECONOMICS**

(DIVISION OF SCIENCES)

See courses recommended for a major in Home Economics in the College of Arts and Sciences on page III-14. For a description of courses see Teachers College bulletin.

**JOURNALISM**

(DIVISION OF SOCIAL SCIENCES)

Professor Pitt  
Assistant Professor Lee  
Instructor Scarlett

The Department of Journalism offers a news-editorial sequence and courses in advertising, radio journalism, industrial publications, and school publications.

Its primary purpose is to train students for employment in the news-editorial departments of daily newspapers but courses may also be elected by students in other fields who wish to increase their understanding of the press, and by prospective teachers of high school journalism and supervisors of high school newspapers.

A major must complete a minimum of 28 hours of journalism plus certain specified courses in the social sciences. No professional courses may be taken before the sophomore year.

On completion of the requirements of the College of Arts and Sciences and the Department of Journalism, the student is awarded the degree of Bachelor of Arts and, on recommendation of the journalism faculty, a Certificate in Journalism.

**Course Requirements for Journalism Majors**

Journalism courses: 101, 2 hrs.; 201-202, 8 hrs.; 301-302, 8 hrs.; 308-309, 4 hrs. or 406, 3 hrs.; 310-311, 6 hrs.; 402, 3 hrs.



Complementary courses: Business Administration 103\*, 2 hrs.; Economics 241, 3 hrs.; History 313, 3 hrs.; Political Science 201-202, 6 hrs.; Psychology 201, 4 hrs.; Sociology 200, 3 hrs.

Additional specific requirements for Bachelor of Arts degree: English 101-102, 6 hrs.; 221-222, 4 hrs.; 341 or 342, 3 hrs.; Speech 101-102, 4 hrs.; mathematics, 3 hrs.; laboratory science, 7 or 8 hrs.\*\*; foreign language\*\*\*, 12 hrs.; physical education, 2 hrs.

### Radio-Journalism Sequence

In conjunction with the Departments of Speech and Business Administration, majors in journalism may elect to take the following courses leading to certification in Radio-Journalism. This sequence prepares students to enter the fields of radio news casting and radio news editing:

### Course Requirements for Radio-Journalism Sequence

Business Administration 231, 2 hrs., 330, 3 hrs.; Journalism 350, 3 hrs., 351, 3 hrs., 381, 4 hrs.; Speech 260, 3 hrs., 261, 3 hrs., 360, 3 hrs., 431, 3 hrs.

### COURSES OF INSTRUCTION

NOTE: A laboratory fee of \$3.00 for subscriptions to newspapers used as textbook and laboratory material is required for all courses except 310-311, 335, 336, and 350-351.

#### 101. Survey of Journalism. 2 hrs. I, II.

Elementary principles of journalism as exemplified by representative American newspapers.

For students who have not studied journalism or had newspaper experience.

#### 201-202. Reporting. 4-4 hrs. I, II.

Theory and practice in gathering and writing news. Laboratory work on student newspaper.

#### 301-302. Copy Reading, Editing. 4-4 hrs. I, II.

Theory and practice in writing headlines, editing copy, and make-up. Laboratory work with Associated Press teletype copy and student newspaper.

Prerequisite: Journalism 201-202 or equivalent.

#### 304-305. Editorial Writing. 2-2 hrs. I, II.

Reading of contemporary editorials and practice in writing editorials.

#### 308-309. Feature Writing. 2-2 hrs. I, II.

Practice in writing news features for student and local newspapers.

#### 310-311. History of American Journalism. 3-3 hrs. I, II.

#### 320-321. Book Reviewing. 2-2 hrs. I, II.

Reading of contemporary books and practice in writing reviews.

#### 335. House Organ Writing, Editing, and Make-up. 3 hrs. I.

Examination of contemporary house organs covering publication practices, costs, layout, editing and writing.

#### 336. Trade Journal Writing and Editing. 3 hrs. II.

A detailed study of contemporary trade journals with practice in specialized writing for trade journal publication.

#### 350-351. Radio News Editing. 3-3 hrs. I, II.

Theory and practice in compiling and editing news for radio broadcasting.

\*Required of students who cannot type efficiently.

\*\*Geology 200 and any 300 course, or Chemistry 101-102, or Botany 203 and Zoology 211.

\*\*\*Students who present no units of foreign language for entrance must take 18 hours in college; those who present 1 unit must take 15 hours.

**353. Special Departments.** 2 hrs. I.

Investigation of specialized fields of journalism from a vocational point of view.

**355-356. News Photography.** 2-2 hrs. I, II.

Methods of taking pictures for newspapers and of picture editing, with practice of photography, developing and printing.

Prerequisite: for 355, Journalism 201-202 or consent of instructor; for 356, Journalism 355 or consent of instructor.

**381. Newspaper Advertising Practices.** 4 hrs. I.

Organization of newspaper advertising departments, advertising agencies, and newspaper representatives.

A laboratory tour of Cincinnati, Ohio, will be made.

**382. Advertising Copy and Layout.** 4 hrs. II.

Copy and layouts, especially as applied to newspapers. Laboratory work on student and local newspapers.

**402. Law of the Press.** 3 hrs. II.

Technical case study of laws pertaining to the press.

**405. Ethics of Journalism.** 2 hrs. II.

Problems, policies, and practices of the press in a democracy.

**406. Advanced Reporting.** 3 hrs. I.

Theory of reporting for small city dailies with practice in covering specific assignments and writing for publication.

Prerequisite: Journalism 201-202 or equivalent.

**410-411. Journalism Seminar.** 1-1 hrs. I, II.

For journalism majors only.

**LATIN****(DIVISION OF HUMANITIES)**

Professor Whitsel

The Department of Latin has cultural as well as practical aims. Through a study of the Latin language and its literature, the student is enabled to understand the life, history, government and art of these people whose civilization has so largely influenced ours. Latin also provides a foundation for the comprehension of English grammar, an opportunity to enlarge the English vocabulary through study of Latin stems which form our words, increased facility in expression through practice in translation into clear and idiomatic English. In addition, Latin is of great assistance as a background for modern Romance languages. There are courses in English for those who wish to know something of this civilization without studying the language.

A major in Latin consists of at least 26 hours, no more than 6 of which may be counted from courses in the 100 group. Courses given in English are advised as valuable, but cannot be counted in fulfilling the minimum major requirement.

In case of new students, prerequisites may be affected by results of placement tests. (See page I-31 of this catalogue.)

**111-112. First year Latin.** 3-3 hrs. I, II.

For students who begin Latin in college. Essentials of grammar, translation, derivative study, relation of Latin to English and Romance languages, Roman life.

No credit for 111 without 112.

**115. Caesar: Gallic War.** 3 hrs. I.

Review of Latin grammar, reading of Caesar's Commentaries, instruction in the art of translation.

Prerequisite: Latin 112 or consent of instructor.



- 203. Cicero: Orations.** 3 hrs. II.  
The statesman and problems of the republic; style of the oration.  
Prerequisite: Latin 115 or two units high school Latin.
- 204. Cicero: de Amicitia; de Senectute.** 3 hrs. II.  
Philosophic essay in contrast to oration.  
Prerequisite: Latin 115 or two units high school Latin.
- 214. Vergil: Aeneid I-VI.** 3 hrs. I.  
The Roman National Epic and the Augustan Age.  
Prerequisite: Latin 115 or two units high school Latin.
- 301. Latin Vocabulary Building,** 2 hrs. I.  
Aid to translation through attention to vocabulary drill and formation of words.  
Prerequisite: Latin 115 or two units high school Latin.
- 306. Selections from Horace.** 3 hrs. I.  
An Augustan poet with a universally appealing philosophy of life.  
Prerequisite: Latin 214 or three units high school Latin.
- 307. Cicero: Letters.** 3 hrs. II.  
The first century B. C. seen through the letters of its foremost statesman.  
Prerequisite: Latin 214 or three units high school Latin.
- 309. Livy: History.** 3 hrs. I.  
Rome from its foundation presented by a great historian.  
Prerequisite: Latin 214 or three units high school Latin.
- 311. Studies in Elegiac Poetry.** 3 hrs. II.  
Augustan life in verse.
- 312. Tacitus: Annals.** 3 hrs. I.  
Famous historian of first century. Gradual breakdown of Roman Republic and establishment of Empire.
- 319. Mythology.** 2 hrs. II.  
Greek and Roman mythology in relation to appreciation of art and literature.  
No knowledge of Latin required. Does not count toward completion or foreign language requirement.
- 322. Latin Literature in Translation.** 2 hrs. II.  
Ancient literary forms and their relation to modern works.  
No knowledge of Latin required. Does not count toward completion or foreign language requirement.
- 327. Advanced Prose Composition.** 3 hrs. I.  
Review of grammar and syntax; practice in writing Latin; study of stylistic qualities of Latin writers.
- 336. Roman Civilization.** 3 hrs. II.  
Roman life and thought from earliest times until fall of Rome. Illustrated lectures on archaeology.  
No knowledge of Latin required. Does not count toward completion or foreign language requirement.
- 401. Pliny, Martial Juvenal.** 3 hrs. II.  
Social life in the first century. Development of Roman Satire as a literary form.
- 402. Vergil: Aeneid VII-XII.** 3 hrs. II.  
Experiences of Aeneas in Italy. The Augustan's conception of Rome's world mission. Study of epic.

**403. The Roman Stage.** 3 hrs. II.

Comedies of Plautus and Terence. Study of dramatic form and relation to later comedy. Comedy's colloquial Latin as a basis for modern Romance languages.

**410. Selected Readings in Latin Literature.** 3 hrs. I.

Rapid reading in literature not met in other specialized courses. Practice in sight reading.

**495H-496H. Honors in Latin.** 4-4 hrs. I, II.

Open only to Latin majors of outstanding ability. Both courses must be taken in order to receive Honors credit. Refer to page III-3 for rules and general information.

**MATHEMATICS****(DIVISION OF SCIENCES)**

Professor Barron

Assistant Professors Goins, Bragonier, Hardman, Wright  
Instructors White, Gutzwiller

Mathematics Major—15 hours beyond the Integral Calculus.

Placement Examination—Satisfactory attainment in this examination is a prerequisite for enrollment in Mathematics 190 or the algebra courses that carry college credit, namely, Mathematics 120, Intermediate Algebra, and Mathematics 223, College Algebra. Students who do not place in these courses are required to take Mathematics 50, which carries no college credit.

**COURSES OF INSTRUCTION****50. Algebra.** No credit. I, II.

Meets five days a week. Complete review of first year high school algebra through simple quadratic equations.

**52. Plane Geometry.** No credit. I.

Meets five days a week. Complete review of high school plane geometry.

**120. Algebra.** 3 hrs. I, II.

Exponents and radicals, quadratic equations, ratio, proportion and variation, logarithms, binomial theorem, progressions.

Prerequisite: Mathematics 50 or the equivalent as shown by the placement examination.

**121. Solid Geometry.** 3 hrs. I, II.

Prerequisites: Mathematics 50, or one unit of high school algebra, plane geometry.

**122. Plane Trigonometry.** 3 hrs. I, II.

Prerequisites: Mathematics 120 or concurrent registration, plane geometry.

**150. Introduction to College Mathematics.** 3 hrs. I, II.

Offered for those who can devote but three hours to the study of mathematics in college. Fundamentals of algebra, with emphasis on exponents, logarithms, and progressions, for a study of selected topics in the mathematics of investment; the function concept; graphs.

Prerequisites: Satisfactory attainment on an arithmetic placement examination, and one unit of high school algebra.

**190. Freshman Mathematics.** 5 hrs. I, II.

A coordinated course in algebra, trigonometry, and analytic geometry. Students who plan to study engineering, or major or minor in mathematics, physics, or chemistry, should enroll in this course the first semester of their freshman year.

Prerequisites: Satisfactory attainment in the algebra placement examination.



- 191. Freshman Mathematics.** 5 hrs. I, II.  
The satisfactory completion of this course qualifies the student to enroll in the calculus.  
Prerequisite: Mathematics 190.
- 223. College Algebra.** 3 hrs. I, II.  
Complex numbers, advanced topics in quadratic equations, theory of equations, mathematical induction, determinants, permutations, combinations, and probability.  
Prerequisite: Mathematics 120 or the equivalent as shown by the placement examination.
- 224. Analytic Geometry.** 4 hrs. I, II.  
Cartesian coordinates, straight lines, conic sections, higher plane curves, polar coordinates, parametric equations, introduction to solid analytic geometry.  
Prerequisites: Mathematics 122 and 223.
- 310. Elementary Statistical Analysis.** 3 hrs. I.  
Probability concepts; sampling; confidence limits; significance tests; elementary concepts of statistical quality control.  
Prerequisite: Mathematics 223.
- 325. Differential and Integral Calculus.** 4 hrs. I, II.  
Variables, functions, limits, differentiation with applications, introduction to integration with applications, indeterminate forms.  
Prerequisite: Mathematics 191 or 224.
- 326. Integral Calculus.** 4 hrs. I, II.  
Methods of integration, applications of definite integrals, approximate integration, infinite series, expansion of functions, multiple integration.  
Prerequisite: Mathematics 325.
- 327. Selected Topics in Differential and Integral Calculus.** 3 hrs. II.  
Supplements the usual year course in differential and integral calculus by giving a more extended coverage of such topics as curve tracing, partial differentiation, multiple integrals, hyperbolic functions and infinite series as well as providing an introduction to differential equations.  
Prerequisite: Mathematics 326 or concurrent registration.
- 332. Theory of Equations.** 4 hrs.  
Complex numbers, polynomials, cubic and quartic equations, ruler and compass constructions, isolation of roots, approximation to real roots, algebraic number fields, determinants, linear equations, elimination.  
Prerequisite: Mathematics 325 or concurrent registration.
- 420. College Geometry.** 3 hrs.  
Recent geometry of the triangle and circle studied by Euclidean methods; problems in ruler and compass constructions. A problem course in advanced plane geometry which is of special value to those who are training to teach high school mathematics.  
Prerequisite: Mathematics 122.
- 421. Solid Analytic Geometry.** 3 hrs.  
The point, plane, straight line, surfaces and curves referred to coordinate systems in space.  
Prerequisite: Mathematics 191 or 224.
- 427. Advanced Calculus.** 4 hrs. I.  
The number system; theory of limits; infinite sequences; functions of real variables; derivatives; partial differentiation, with applications to differential geometry; maxima and minima of functions of several variables.  
Prerequisite: Mathematics 326.

**428. Advanced Calculus.** 4 hrs. II.

A continuation of 427. Theory of definite integrals, multiple integrals, line and surface integrals, Green's theorem, transformation of multiple integrals, improper integrals, infinite series.

Prerequisite: Mathematics 427.

**430. Vector Analysis.** 3 hrs. I.

The algebra of vectors; the differential calculus of vectors; applications to geometry, physics, mechanics.

Prerequisite: Mathematics 326.

**432. Vector and Tensor Analysis.** 3 hrs. II.

A continuation of Mathematics 430. The integral calculus of vectors, introduction to tensor analysis, applications.

Prerequisite: Mathematics 430.

**435. Ordinary Differential Equations.** 4 hrs.

An exposition of methods used in solving ordinary differential equations, with applications to geometry, physics, and mechanics.

Prerequisite: Mathematics 326.

**436. Partial Differential Equations.** 3 hrs. II.

An exposition of methods used in solving partial differential equations, with applications to geometry, and boundary value problems in mathematical physics involving Fourier Series, and series of Bessel Functions.

Prerequisite: Mathematics 435.

**445. Introduction to the Theory of Statistics.** 3 hrs.

The theory and application of mathematical statistics, treating such topics as averages, measures of dispersion and skewness, frequency distributions, frequency curves, and correlation. Applications to miscellaneous practical problems.

Prerequisite: Mathematics 310, 325.

**450. Fundamental Concepts and History of Mathematics.** 3 hrs.

A discussion of the logical foundations of algebra, geometry, and analysis, as an approach to an answer to the question "what is mathematics?" This discussion will be coordinated with the historical development of mathematics from ancient to modern times.

Prerequisite: Senior or graduate standing.

**460. Functions of a Complex Variable.** 3 hrs.

Complex numbers; analytic functions; properties of elementary functions; integrals; power series; residues and poles; conformal mapping with applications to problems in potential, steady temperatures, and flow of fluids.

Prerequisite: Mathematics 326.

**MILITARY SCIENCE AND TACTICS**

Professor O'Neal

Assistant Professors Hillard, McGuinness

Instructors Hart, Lafford, Miller

**COURSES OF INSTRUCTION****101-102. Basic Course Military Science.** 2-2 hrs.

Military organization; evolution of warfare; U. S. military policy; military problems of the United States; first aid and hygiene; map and aerial photograph reading; individual weapons and marksmanship; leadership, drill and exercise of command. Four hours per week.

**201-202. Basic Course, Ordnance.** 2-2 hrs.

Leadership, drill and exercise of command; the role of ordnance; automotive materiel; artillery materiel; small arms materiel; ammunition materiel; fire control materiel. Four hours per week.

Prerequisite: Military Science 101-102.



**301-302. Advanced Course Ordnance. 3-3 hrs.**

Leadership, drill and exercise of command; organization of the Ordnance Corps; automotive materiel; small arms materiel; ammunition materiel; artillery materiel; fire control materiel; infantry tactics and techniques; individual weapons and marksmanship. Six hours per week.

Prerequisite: Military Science 101-102, 201-202 or equivalent military service.

**351. Ordnance Summer Camp. 3 hrs.**

A six weeks' (44 hours per week) intensive training program, supplementing the material offered in MS 201-202 and 301-302. Interior guard; chemical warfare training; marksmanship; ordnance tactical and technical problems and exercises.

Prerequisite: Military Science 301-302.

**401-402. Advanced Course Ordnance. 3-3 hrs.**

Military administration; military law and boards; psychological warfare; leadership, drill and exercise of command; maintenance and supply; command and staff; combat intelligence; materiel specialty (thesis). Six hours per week.

Prerequisite: Military Science 301-302, 351.

NOTE: The ROTC program is designed to permit completion of the four years' ROTC program simultaneously with receipt of the Baccalaureate Degree in June of the senior year. The ROTC program may be carried in conjunction with any curriculum of the College.

**MUSIC****(DIVISION OF HUMANITIES)**

See courses recommended for a major in Music in the College of Arts and Sciences on pages III-14 — III-15. For a description of courses see Teachers College bulletin.

**PHILOSOPHY****(DIVISION OF SOCIAL SCIENCES)**

Professor Beck

NOTE: No courses open to first semester freshmen.

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

**201. Introduction to Philosophy. 3 hrs. I, II.**

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. I.**

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.**

Prerequisite: Philosophy 201, or 311, or 410.

**315. The Development of American Philosophy. 2 hrs. I, S.**

Great American thinkers from Jonathan Edwards to John Dewey.

**320. Types of Religious Philosophy (Comparative Religion). 3 hrs. I, S.**

The relation of the world's religions to human culture and the role of religious faith in the establishment of the world community.

**321. Current Philosophical Trends.** 3 hrs. II, S.

Selected readings in contemporary thought embracing such movements as pragmatism, positivism, realism and idealism.

Prerequisites: Philosophy 201, or 311, or 312.

**410. The Philosophical Sources of American Culture.** 3 hrs. I, 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. I, S.

Exposition of Dewey's entire philosophy as background for his views on education.

**419. Survey of Religious Philosophy in the Western World.** 3 hrs. II, S.**495H-496H. Readings for Honors in Philosophy.** 4-4 hrs. I, II.

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

Refer to page III-3 for rules and general information.

**PHYSICS****(DIVISION OF SCIENCES)**

Professor Martin

Instructor Shafer

The purposes of this department are:

To offer the student adequate training in the field of physics in order to enable him to gain employment as a professional physicist or to enter a school that offers graduate training in physics.

To offer preparatory work to students who may wish to enter professional schools of engineering, medicine, dentistry, pharmacy, medical technology, etc.

To offer elementary courses to students who have had no previous training in physics and may need a limited knowledge of the subject to satisfy the requirements of other departments or to satisfy their own desire for some acquaintance with the subject.

Curriculum for Physics Majors leading to the Bachelor of Science Degree.

**First Year**

| <i>First Semester</i>         | <i>Hrs.</i> | <i>Second Semester</i>        | <i>Hrs.</i> |
|-------------------------------|-------------|-------------------------------|-------------|
| English 101 .....             | 3           | English 102 .....             | 3           |
| Mathematics 190 .....         | 5           | Mathematics 191 .....         | 5           |
| Chemistry 251 .....           | 5           | Chemistry 252 .....           | 5           |
| Physical Education 113 .....  | 1           | Speech 101 .....              | 2           |
| or Military Science 101 ..... | 2           | Physical Education 114 .....  | 1           |
|                               |             | or Military Science 102 ..... | 2           |
|                               | 14 or 15    |                               | 16 or 17    |

**Second Year**

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|-----------------------|-------------|------------------------|-------------|
| English 221 .....     | 2           | English 222 .....      | 2           |
| Physics 201 .....     | 3           | Physics 203 .....      | 3           |
| Physics 202 .....     | 2           | Physics 204 .....      | 2           |
| Mathematics 325 ..... | 4           | Mathematics 326 .....  | 4           |
| German 101 .....      | 3           | German 102 .....       | 3           |
| Speech 102 .....      | 2           | Psychology .....       | 3           |
|                       | 16          |                        | 17          |

Military Science 201 and 202 must be taken following Military Science 101 and 102.



## Third Year

| <i>First Semester</i> | <i>Hrs.</i> | <i>Second Semester</i>      | <i>Hrs.</i> |
|-----------------------|-------------|-----------------------------|-------------|
| Physics 300 .....     | 3           | Physics 302 .....           | 3           |
| Physics 301 .....     | 2           | Physics 303 .....           | 2           |
| German 223 .....      | 3           | German 224 .....            | 3           |
| Zoology 211 .....     | 4           | Botany 203 .....            | 4           |
| Sociology 200 .....   | 3           | Political Science 201 ..... | 3           |
|                       | 15          |                             | 15          |

## Fourth Year

| <i>First Semester</i>    | <i>Hrs.</i> | <i>Second Semester</i> | <i>Hrs.</i> |
|--------------------------|-------------|------------------------|-------------|
| Physics 304 or 314 ..... | 3           | Physics 306 or .....   | 3           |
| Physics 305 or 315 ..... | 2           | Engineering 306 .....  | 3           |
| Physics 401 or 402 ..... | 3           | Physics 307 .....      | 2           |
| Mathematics 435 .....    | 3           | Physics 308 .....      | 3           |
| Philosophy 304 .....     | 3           | Physics 309 .....      | 2           |
| Economics 241 .....      | 3           | Economics 242 .....    | 3           |
|                          | 17          | Geology 200 .....      | 4           |
|                          |             |                        | 17          |

## COURSES OF INSTRUCTION

No course open to freshmen except by permission of the Department Head and the Dean of the College.

NOTE: A \$2.00 fee is charged for each laboratory course taken. This is payable to the Financial Secretary following registration.

**201-202. General Physics.** 2 or 3 hrs.—2 or 3 hrs. I, II.

Either two or three lectures each week.

Students of engineering and majors in mathematics and physical sciences take the 3-hour course. All others take the 2-hour course.

Prerequisites: Mathematics 120 and 122 for the 2-hour course. Mathematics 191 or 224 for the 3-hour course.

**203-204. General Physics Laboratory.** 2-2 hrs. I, II.

Four hours of laboratory each week.

Required of all students taking Physics 201 and 203.

**300. Electricity and Magnetism.** 3 hrs. I.

Three hours lecture each week. A study of direct current electricity and magnetism.

Prerequisites: Physics 203, 204, and Mathematics 326.

**301. Electrical Measurements.** 2 hrs. I.

Four hours laboratory each week. Accompanies Physics 300.

Prerequisites: Physics 203, 204, and Mathematics 326.

**302. Electricity and Magnetism.** 3 hrs. II.

Three hours lecture each week. A study of alternating current electricity and magnetism.

Prerequisites: Physics 300 and Mathematics 326.

**303. Electrical Measurements.** 2 hrs. II.

Four hours laboratory each week. Accompanies Physics 302.

Prerequisites: Physics 300 and Mathematics 326.

**304. Light.** 3 hrs.

Three hours lecture each week.

Prerequisites: Physics 203, 204.

- 305. Light Laboratory.** 2 hrs.  
Four hours laboratory each week. Accompanies or follows Physics 304.  
Prerequisites: Physics 203, 204.
- 306. Elements of Mechanics.** 3 hrs.  
Three hours lecture each week.  
Prerequisites: Same as for Physics 300.
- 307. Mechanics Laboratory.** 2 hrs.  
Four hours of laboratory each week.  
Prerequisites: Same as for Physics 300.
- 308. Heat.** 3 hrs.  
Three hours lecture each week.  
Prerequisites: Same as for Physics 300.
- 309. Heat Measurements.** 2 hrs.  
Four hours laboratory each week. Accompanies or follows Physics 308.  
Prerequisites: Same as for Physics 300.
- 311. Sound.** 3 hrs.  
Three hours lecture each week.  
Prerequisites: Physics 203, 204.
- 314. Electronic Physics.** 3 hrs. (Formerly 205)  
Three hours of lecture each week. A study of electron tubes and associated circuits.  
Prerequisites: Physics 203, 204.
- 315. Electronics Laboratory.** 2 hrs. (Formerly 206)  
Four hours of laboratory each week.  
Prerequisites: Physics 203, 204.
- 401. Modern Physical Theories.** 3 hrs.  
Three hours of lecture each week. A study of atomic theories of matter, optical spectroscopy, X-rays, and introduction of nuclear physics.  
Prerequisites: Physics 300, 301, and Mathematics 326.
- 402. Nuclear Physics.** 3 hrs.  
Three hours of lecture each week. A more detailed study of nuclear physics than given in Physics 401.  
Prerequisites: Physics 300, 301, and Mathematics 326.
- 403. Nuclear Physics Laboratory.** 2 hrs.  
Four hours of laboratory each week.  
Prerequisites: Same as for Physics 402.
- 412. Radio.** 3 hrs. (Formerly 312)  
Three hours of lecture each week.  
Prerequisites: Physics 314, 315, or equivalent.
- 413. Radio Laboratory.** 2 hrs. (Formerly 313)  
Four hours of laboratory each week.  
Prerequisites: Physics 314, 315, or equivalent.

### POLITICAL SCIENCE

#### (DIVISION OF SOCIAL SCIENCES)

Professors Dillon, Harris  
Associate Professor Harper  
Assistant Professors Stewart, Leiden

The political science curriculum has two principal 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.



## Suggested Curriculum for Law and Political Science Majors

## First Year

| <i>First Semester</i>         | <i>Hrs.</i> | <i>Second Semester</i>        | <i>Hrs.</i> |
|-------------------------------|-------------|-------------------------------|-------------|
| English 101 .....             | 3           | English 102 .....             | 3           |
| Language .....                | 3           | Language .....                | 3           |
| Political Science 101 .....   | 2           | Political Science 102 .....   | 2           |
| History 105 .....             | 3           | History 106 .....             | 3           |
| Speech 101 .....              | 2           | Speech 102 .....              | 2           |
| *Physical Education 113 ..... | 1           | *Physical Education 114 ..... | 1           |
|                               | 14          |                               | 14          |

## Second Year

| <i>First Semester</i>       | <i>Hrs.</i> | <i>Second Semester</i>      | <i>Hrs.</i> |
|-----------------------------|-------------|-----------------------------|-------------|
| English 221 .....           | 2           | English 222 .....           | 2           |
| Language .....              | 3           | Language .....              | 3           |
| Political Science 201 ..... | 3           | Political Science 202 ..... | 3           |
| Science .....               | 4           | Science .....               | 4           |
| Economics 241 .....         | 3           | Economics 242 .....         | 3           |
|                             | 15          | Mathematics .....           | 3           |
|                             |             |                             | 18          |

## Third Year

| <i>First Semester</i>   | <i>Hrs.</i> | <i>Second Semester</i>   | <i>Hrs.</i> |
|-------------------------|-------------|--------------------------|-------------|
| Political Science ..... | 3           | Political Science .....  | 3           |
| Science .....           | 4           | English 341 or 342 ..... | 3           |
|                         |             | Science .....            | 4           |

## Fourth Year

| <i>First Semester</i>   | <i>Hrs.</i> | <i>Second Semester</i>  | <i>Hrs.</i> |
|-------------------------|-------------|-------------------------|-------------|
| Political Science ..... | 6           | Political Science ..... | 6           |

Recommended Electives for the Third and Fourth Year:

History 311, 312, 313; Business Administration 215, 216, 415; Economics; Philosophy 201, and others; Psychology 201; Sociology.

## COURSES OF INSTRUCTION

## 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.

## 200. Current Latin American Problems. 2 hrs.

Political, economic and social problems of Latin America as they relate to and affect American Foreign Policy.

## 201. American National Government. 3 hrs. I, II, S.

Survey of principles of American philosophy of government, emphasizing their development in a practical study of the mechanism through which the public will is formulated, expressed and carried out.

## 202. American State Government. 3 hrs. I, II, S.

General study with special attention to the state government of West Virginia.

\*Military Science may be substituted.

- 301. Municipal Government.** 3 hrs. II.  
Types of city government, charters, federal and state relations with cities, the legislative or ordinance power, departmental organization, municipal courts.
- 303. American Political Parties.** 3 hrs.  
Study of the political process as a living reality, combining structural description with functional analysis.  
Prerequisite: Political Science 201 or 202.
- 307. Public Opinion and Propaganda.** 3 hrs.  
From the point of view of politics and political thinking. Emphasis on the analysis of propaganda and the measurement of public opinion.
- 323. American Constitutional Law.** 3 hrs. I.  
Leading cases in the development of American constitutional law. Casebook method supplemented by writing of moot cases, opinions of publicists, and current material.  
Prerequisites: Political Science 201, 202.
- 333. Public Administration.** 3 hrs. II.  
Basic principles in the organization and functioning of governmental agencies for the execution of government policies.  
Prerequisite: Political Science 201 or 202.
- 405. International Relations.** 3 hrs.  
Special consideration given to the rise and development of international institutions, particularly the United Nations.
- 406. Contemporary World Politics.** 3 hrs.  
Special emphasis given to problems of American Foreign Policy. The factors, forces and movements abroad which affect our foreign policy.
- 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. Parliamentary Governments.** 3 hrs.  
Origin, development, structure and current operations of the English, French, Swiss and other selected democratic governments. Emphasis on the English system.
- 410. Modern 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 forty-eight states.  
Prerequisite: 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 III-3 for rules and general information.



**PSYCHOLOGY**

(DIVISION OF SOCIAL SCIENCES)

Professors Loemker, VanBibber  
Assistant Professors Lichtenstein, Feil  
Instructor Perry

**The Psychology Major**

The Department of Psychology recognizes two types of major sequence, both of which require the completion of a minimum of twenty-six hours in psychology courses.

**Psychology Major—Non-professional.** Two courses are prescribed: Psychology 201 and 202. Other psychology courses will be selected in accordance with the interests of the student and with the approval of the adviser. The student with the non-professional major will not be recommended for professional work or for graduate professional study in psychology.

**Psychology Major—Pre-professional.** Planned to provide the student with the background and skills essential for professional work and training in psychology. It will include the following courses: Psychology 201, 202, 317, 323, 406, 420, 421, and 460. Recommended: Mathematics, Zoology and Physiology, and Philosophy 304.

**COURSES OF INSTRUCTION****100. Introduction to Psychology. 3 hrs. I, II.**

For students who probably will take no further courses in psychology.

The scientific study of human behavior and experience to enable the student better to evaluate human factors in business, industrial, professional, political, and social life.

**200. Personal and Social Adjustment. 3 hrs. I, II.**

Basic, general principles of psychology applied to immediate problems of living, both in college and out: understanding oneself, achieving emotional stability, maturity, and self-confidence, developing a well adjusted personality, acquiring effective learning and study techniques, selecting and planning for one's vocation, attaining proficiency in social relations.

**201. General Psychology. 3 or 4 hrs. I, II, S.**

General principles and methods of psychology with practice in laboratory procedures. Psychological development, learning, memory, thinking and imagination, perceptual processes, intelligence and special abilities, personality.

Three class periods and one two-hour laboratory period each week.

Prerequisite to all psychology courses numbered higher than 201. 4 hours.

In Evening School this course is given without the laboratory period and carries 3 hours credit. Evening School students may use the 3-hour course as prerequisite for advanced psychology courses with the approval of the instructors concerned.

**202. Psychology in Use. 2 hrs. I, II, S.**

Survey of occupations in psychology and of applications of psychological principles and methods to education, business and industry, law, medicine, vocational guidance, and mental hygiene.

Prerequisite: Psychology 201.

**302. Social Psychology. 3 hrs. I, II, S.**

Psychological study of group behavior: human development in the social environment, role of psychological factors in conventions, customs, morals, propaganda, psychological interrelationships in group behavior.

Prerequisite: Psychology 201.

**307. Psychology of Adolescence.** 3 hrs. II, S.

Human development during adolescence; physical, social, religious, vocational problems of adjustment characteristic of adolescence.

Prerequisite: Psychology 201.

**308. Abnormal Psychology.** 3 hrs. I, II, S.

Nature, causes, and prevalence of psychoses, neuroses, psychopathic states, mental deficiency from the standpoint of diagnostics; deviation in sensory and motor activities, memory, emotion, intelligence, personality.

Prerequisite: Psychology 201.

**314. Child Psychology.** 3 hrs. I, S.

Physical, mental, emotional, social and personality development during childhood.

Prerequisite: Psychology 201.

**317. Statistical Methods.** 3 hrs. I.

Elementary course to equip the student with essential statistical procedures for research in psychology. Tabulation and graphic presentation of data, analysis of frequency distributions, averages and their uses, measures of dispersion, elementary theory of probability and its application, correlation, sampling techniques, analysis of variance.

Prerequisite: Psychology 201.

**318. Personnel Psychology for Technical Workers.** 2 hrs. I.

The interaction of human beings in industry. Open only to Juniors and Seniors preparing for technical work in industry or related fields.

Prerequisite: Consent of instructor.

**323. Experimental Psychology.** 4 hrs. II.

Designed to train the student in the use of psychological laboratory equipment and methods. Experiments in sensory and perceptual processes, motivation and emotions, motor activity, learning and memory, thinking.

Two class periods and two two-hour laboratory periods each week.

Prerequisite: Psychology 201.

**406. Intelligence: Theories and Development.** 3 hrs. I.

Nature of intelligence, individual differences in intelligence, mental levels; significance and methods of measuring intelligence; relation of intelligence to social efficiency.

Prerequisite: Nine hours of psychology.

**416. Psychology of Learning.** 3 hrs.

Review and critical evaluation of experimental studies and theories of learning.

Prerequisite: Nine hours of psychology.

**418. Psychology of Personnel.** 3 hrs. I, II, S.

Techniques in personnel administration, with emphasis on the psychological principles and methods involved. Problems of employment procedures, training programs, personnel records, communication, and human relations in business and industry.

Prerequisite: Psychology 201.

**420. Mental Measurements.** 3 hrs. I.

Instruction and practice in the use of the Stanford-Binet and Wechsler tests; evaluation of test results. Should be taken after or concurrently with 406.

Prerequisite: Nine hours of psychology.



**421. Psychological Tests.** 3 hrs. II.

Instruction and practice in the use of group tests of intelligence and abilities, and in tests of interests and personality; evaluation of test results.

Prerequisite: 420.

**460. History and Systems of Psychology.** 3 hrs. I, S.

Prerequisite: Nine hours of psychology.

**490. Problems in Psychology.** 1 to 4 hrs.

Research problems of interest to the student.

Prerequisite: Senior standing, twenty hours of psychology, and consent of Department Head.

**495H-496H. Reading for Honors in Psychology.** 4-4 hrs. I, II.

Open only to psychology majors of outstanding ability. Both courses must be taken in order to receive Honors credit. Refer to page III-3 for rules and general information.

**SOCIOLOGY****(DIVISION OF SOCIAL SCIENCES)**

Professors Richardson and Hayward  
Instructors Burdette and Corrie

The work of the department of sociology is designed: (1) to lay the foundations for an understanding of the nature and development of social institutions and their influence upon the personality and (2) to prepare for advanced study and research and (3) to provide training for positions in public and private institutions, government service and business enterprise.

Minimum for Major in Sociology: twenty-six hours including Sociology 200, 308, 421, and 428. Additional courses advised: Sociology 320 and 408.

**COURSES OF INSTRUCTION**

Sociology majors and minors are required to have Sociology 200 as a prerequisite to all advanced work except Sociology 231 and 232. Other students may elect undergraduate courses in sociology without having had Sociology 200.

**200. Introductory Sociology.** 3 hrs. I, II.

The origin and structure of society.

Not open to freshmen.

**231. Rural Sociology.** 2 hrs. I, II.

Development of rural society, town and country relationships.

Open to freshmen.

**232. Urban Sociology.** 2 hrs. I, II.

The growth and structure of the modern city with the effect of urbanization on social institutions.

Open to freshmen.

**300. Principles of Sociology.** 3 hrs. I, II.

The principles and fundamental concepts of sociology most useful to the teacher as he works in the school and community.

Open only to teachers.

**301. Cultural Anthropology.** 3 hrs. II.

Analysis of the culture of various primitive groups.

**305. Community Organization.** 3 hrs. I.

The Community and its significance in modern social life.

Prerequisites: Sociology 200 or 232.

- 308. Marriage and Family Life.** 3 hrs. I, II.  
Early family life and its relation to social organization, forms of marriage, changing family conditions, successful and unsuccessful marriages.  
Prerequisite: Sociology 200.
- 311. Problems of Poverty.** 3 hrs. I.  
Problems arising out of illness, old age, dependency, unemployment, and homelessness.  
Prerequisite: Sociology 200.
- 315. Juvenile Delinquency.** 2 hrs. I.  
Social and physical backgrounds of juvenile delinquency. Methods of institutional treatment.  
Prerequisite: Sociology 200.
- 320. Criminology.** 3 hrs. II.  
Analysis of crime and criminals with theories and statistics pertaining to individual and social factors.  
Prerequisites: Sociology 200 and 311.
- 342. Social Institutions.** 3 hrs. II.  
Critical appraisal of the origin, development, and purpose of the basic institutions of society.  
Prerequisite: Sociology 200.
- 401. Population Problems.** 3 hrs. I.  
The growth and distribution of population in relation to natural resources, commerce, and social relationships.  
Prerequisites: Sociology 200 and junior or senior standing.
- 402. Special Topics.** 1 to 3 hrs. I, II.  
Special problems in fields where the student has sufficient background to do constructive research and study.  
Admission by staff approval.
- 403. Techniques and Methods of Social Investigation.** 3 hrs. II.  
Methods of investigation and research in the social sciences. Sources of data, their evaluation, organization, and presentation. A special research project will be required of each student.  
Prerequisite: Eight hours in sociology with senior or graduate standing.
- 404. Public Welfare.** 2 hrs. I.  
History, underlying principles and basic assumptions of public welfare work.  
Admission by staff approval.
- 405. Introduction to Social Case Work.** 3 hrs. II.  
The aims, methods, and purpose of social case work are presented through class discussion and individual field practice.  
Prerequisite: Sociology 305.
- 408. The Family.** 2 hrs. II.  
The family as an institution, its structure, functions, and relation to social organization.  
Prerequisites: Sociology 200 with senior or graduate standing.
- 411. Field Work.** 2 hrs. II.  
Instruction in social work through practice in the Family Welfare Society, the Department of Public Assistance, and other agencies.  
Prerequisite: Junior or senior standing.
- 412. Principles and Techniques of Group Relations.** 3 hrs. II.  
Analysis of the group, participation, intergroup relationships, group tensions and group control.  
Prerequisites: Sociology 200 and senior or graduate standing.



- 421. History of Social Thought.** 3 hrs. II.  
A survey of sociological literature and thought from earliest times through the contemporary period.  
Prerequisites: Sociology 200 with senior or graduate standing.
- 426. The American Negro.** 3 hrs. II.  
Historical background, accomplishments in American cultural spheres, social and economic problems of the Negro.  
Prerequisite: junior or senior standing.
- 427. Race Problems.** 3 hrs. II.  
The nature criteria, classification, and distribution of races; race differences and contacts.  
Prerequisites: junior, senior, or graduate standing.
- 428. Medicine in Modern Society.** 3 hrs. I.  
Changing patterns in medicine, government participation in the field, group practice, research and foundations, and international aspects.  
Prerequisites: junior, senior, or graduate standing.
- 429. Social Legislation.** 3 hrs. II.  
The origin, growth, and development of public welfare and social legislation.  
Prerequisite: eight or more hours in sociology.
- 430. The American Indian.** 3 hrs. I.  
The physical and cultural study of the American Indian. Special emphasis on his contributions to our own culture.  
Prerequisites: Sociology 200, with junior, senior, or graduate standing.

### SPANISH

#### (DIVISION OF HUMANITIES)

Associate Professors Fors, Martin  
Instructors Fitch, Stais

The Spanish department prepares students in practical conversation and in the cultural aspects of the literature and the people. The majors in this field should be able to speak Spanish with good intonation and pronunciation, use social correspondence with reasonable facility, and be well acquainted with the literary works produced in Spain and Latin America.

A Spanish major consists of 26 semester hours in the field as language requirements and Spanish 306.

NOTE: In the case of new students, prerequisites may be affected by the results of placement tests. See page I-31 of this catalogue.

### COURSES OF INSTRUCTION

- 101-102. Elementary Course.** 3-3 hrs. I, II.  
Pronunciation, intonation, conversation, composition, and reading, with added emphasis on self-expression in Spanish.  
No credit is given for 101 without 102.
- 203-204. Intermediate Course.** 3-3 hrs. I, II.  
Composition, conversation, and readings. Emphasis on idiomatic expressions and their use, designed to prepare the student to use the language for both cultural and practical purposes.  
Prerequisite: Spanish 102.
- 306. Hispanic Civilization.** 3 hrs. II.  
Study of the development of Spanish civilization and of the contributions of the Spanish-speaking nations to world culture.  
No knowledge of Spanish required.

**310-311. Advanced Conversation.** 2-2 hrs. I, II.

Class conducted strictly in Spanish; conversation on current events, literature, industries, commerce and travel.

Prerequisite: Spanish 204 or placement test.

**312-313. Spanish-American Literature.** 2-2 hrs. I, II.

Readings from representative authors. Reports and class discussions in Spanish.

Prerequisite: Spanish 204 or aptitude test.

**320. Prose Readings of the 19th and 20th Centuries.** 3 hrs. I.

Formerly "The Regional Novel." Readings, lectures, discussions, and reports of the works of representative authors.

Prerequisite: Spanish 204 or test.

**330. Modern Drama.** 3 hrs. II.

Readings, lectures, discussions, and reports on the representative dramatists from the Romantic period to the present. Class conducted strictly in Spanish.

Prerequisite: Spanish 204 or test.

**410. Cervantes.** 3 hrs. I.

Readings, lectures, discussions, and reports of the *Novelas Ejemplares* and *Don Quixote*. Class conducted strictly in Spanish.

Prerequisite: Spanish 204.

**420. Drama of the Golden Age.** 3 hrs. II.

Readings, lectures, discussions, and reports of the representative authors of the Golden Period. Class conducted in Spanish.

Prerequisite: Spanish 204.

**495H-496H. Readings for Honors in Spanish.** 4-4 hrs. I, II.

Open only to Spanish majors of outstanding ability. Refer to page III-3 for rules and information. Both courses must be taken to receive Honors credit.

**SPEECH****(DIVISION OF HUMANITIES)**

Professor Ranson

Associate Professor Page

Assistant Professors Robertson, Harbold, Caplan, Hope

Instructors McCubbin, Cheydleur

The Department of Speech aims to promote intelligent and intelligible talking in various phases of human endeavor. All classwork and extra-curricular activities are organized to accomplish this. The courses include work in public speaking, drama, radio, interpretation, and corrective speech. Extra-curricular activities include College Theatre plays, forensics, interpretation contests, and radio contests.

Speech majors take the courses listed below. They may elect courses in addition to these.

|                  | Hrs. |                  | Hrs. |
|------------------|------|------------------|------|
| Speech 101 ..... | 2    | Speech 260 ..... | 3    |
| Speech 102 ..... | 2    | Speech 306 ..... | 3    |
| Speech 205 ..... | 3    | Speech 312 ..... | 2    |
| Speech 210 ..... | 3    | Speech 313 ..... | 2    |
| Speech 240 ..... | 3    | Speech 320 ..... | 3    |

Select one of the following: Speech 403, 418, 431.



## COURSES OF INSTRUCTION

- 101-102. Practical Public Speaking.** 2-2 hrs. I, II.  
Beginning course. Required of all entering freshmen.
- 205. Argumentation and Debate.** 3 hrs. I, II.  
Emphasizes practical applications.
- 207. Business and Professional Speaking.** 3 hrs. I, II.  
Public and Conference speaking. Includes parliamentary law.  
Prerequisite: Speech 102.
- 210. Acting.** 3 hrs. I, II. (Not open to those who have had Speech 209).  
The formation of a working theory concerning the playing of a dramatic role in the theatre. Practice in developing technical skills through exercises in body and voice control, including pantomimic sketches, monologues, and short dramatic scenes.
- 239. Phonetics.** 2 hrs. I.  
Introduction to the science of speech sounds.  
Prerequisite: Speech 102.
- 240. Voice Training.** 3 hrs. I, II.  
Theory and practice of speech production and improvement.  
Prerequisite: Speech 102.
- 250. Story Telling and Dramatization.** 3 hrs. I, II.  
For those who plan to work in nursery schools, kindergartens, or grade schools.
- 260. Fundamentals of Radio and Television.** (Formerly Radio Speech). 3 hrs. I, II.  
Fundamentals of announcing, acting, and news-casting as required by the radio and television industry. Emphasis on delivery of advertising copy. Special arrangements for students majoring in Home Economics and Journalism.
- 261. Radio Announcing.** 3 hrs. II.  
Editing and announcing spot announcements, commercial copy, on-the-spot-news, and special-events programs.
- 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. Extempore Speech.** 3 hrs. I, II.  
Advanced public speaking. Promotes proficiency in preparation and delivery under a variety of conditions.  
Prerequisite: Speech 102.
- 312-313. Play Production.** 2 hrs. each. I, II.  
Deals with scene design and construction, scene painting, lighting, make-up, and other technical problems. Work coordinated with College Theatre plays.
- 320. Oral Interpretation of Literature.** 3 hrs. I, II.  
The fundamentals of reading, analyzing, and interpreting literature.  
Prerequisite: Speech 102.
- 321. Dramatic Reading and Platform Art.** 3 hrs. II.  
Oral interpretation with emphasis on public performance.  
Prerequisite: Speech 320.
- 360. Radio, Television, and Society.** (Formerly Radio and Society) 2 hrs. II.  
The unusual effects of radio and television upon society, and their place in the field of modern communications. Students in Business Administration will be permitted to study the effects of this billion dollar industry in relation to other advertising mediums.

**361. Radio News-Casting. 2 hrs. I.**

Fundamentals of radio news-casting. Microphone work consists of straight news reports, commentaries, and on-the-spot-news.

**403. Play Direction. 3 hrs. I.**

Problems in directing plays. Laboratory practice. Primarily for students who expect to produce plays in schools or community groups.

**405. Advanced Acting. 3 hrs. I, II. (Not open to those who have had Speech 404)**

The various styles of acting. Includes the interpretation of roles from classical, romantic, and modern dramas.

Prerequisite: Speech 210.

**418. Speech Correction. 3 hrs. I, II.**

Deals with the causes, symptoms, and treatment of speech problems with special attention to classroom application.

**419. Speech Correction. 3 hrs. II.**

Introduction to clinical methods in speech correction. Theory and clinical practice.

Prerequisite: Speech 418.

**431. Radio Production. 3 hrs. II.**

Individual and group instruction in the techniques of radio and television programming, announcing, and acting. For interested students, special emphasis will be placed on sports-casting and in building women's programs.

**432. Use of Radio in the Classroom. 3 hrs. I.**

For students who plan to enter the fields of public administration, public relations, or elementary or high school teaching. The individual will learn the best methods of using radio and television as a "tool" in these fields.

**440. Play Writing. 3 hrs.**

Principles of dramatic construction. Includes finding dramatic materials, building the play, characterization, and dialogue. Writing one-act plays and sketches for experimental and public production.

**445. Children's Theatre. 3 hrs.**

The theory, directing, and staging of various types of plays for children. Particular attention to problems encountered in the elementary school.

**450. The Direction of Speech Activities. 3 hrs.**

For the teacher who is responsible for conducting the extra-curricular speech program. Includes coaching and evaluating group discussion, debate, oratory, oral reading, extemporaneous speaking

**460. Audiometry and Speech Problems of the Deaf and Hard of Hearing. 3 hrs.**

Survey of the area of audiology as related to speech correction.

Prerequisite: Speech 418.

## ZOOLOGY

### (DIVISION OF SCIENCES)

Professors Green, Edeburn  
Assistant Professor Fisher

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 of 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 biologist, entomology or other related fields. Zoology majors may pursue advanced degrees leading to teaching or research in applied zoology.



A zoology major is required to complete 26 semester hours of zoology which will include Zoology 211, 212 and either 301 or 302. The additional 14 hours should be selected after consulting the Department Head. The curriculum for a zoology major is listed on page III-9. In addition to the requirements for a Bachelors Degree the following courses are recommended: Botany 304 and 316, Geology 300, Philosophy 304 and a course in Statistics.

(See page III-13 for a major in Biological Science.)

## ZOOLOGY

### COURSES OF INSTRUCTION

**211. General Zoology. 4 hrs. I, II, S.**

Two hours lecture and four hours laboratory a week. Important biological principles of structure, function, growth, development and inheritance applied to man and the higher animals. Lab. fee \$2.00.

**212. Advanced General Zoology. 4 hrs. I, II.**

Two hours lecture and four hours laboratory a week. Classification, structure and relationships of the important animal phyla.

Prerequisite: Zoology 211. Lab. fee \$2.00.

**300. Histology. 4 hrs.**

Two hours lecture and four hours laboratory a week. Microscopic study of vertebrate tissues.

Prerequisite: Zoology 212. Lab. Fee \$2.00.

**301. Vertebrate Embryology. 4 hrs. I.**

Two hours lecture and four hours laboratory a week. Vertebrate development based chiefly on frog, chick and pig embryos.

Prerequisite: Zoology 212. Lab. Fee \$2.00.

**302. Comparative Vertebrate Anatomy. 4 hrs. II.**

Two hours lecture and four hours laboratory a week. Principles of structure, function and relationships of vertebrate systems with emphasis on the dogfish and cat.

Prerequisite: Zoology 212. Lab. fee \$5.00.

**307. Genetics. 4 hrs. I, S.**

Three hours lecture and two hours laboratory a week. The fundamental principles and mechanisms of inheritance including their human applications.

Prerequisite: four hours of biological science. Lab. fee \$2.00.

**315. Human Anatomy and Physiology. 4 hrs. II.**

Three hours lecture and two hours laboratory a week. The structure and functions of the human body.

Prerequisite: Zoology 211 or equivalent. Lab. fee \$2.00.

**401. Laboratory Methods. 2 hrs.**

One hour lecture and two hours laboratory a week. Basic principles of collecting, culturing, and preparation of laboratory specimens and materials.

Prerequisite: Zoology 211 or equivalent.

**402. Vertebrate Natural History. 3 hrs.**

One hour lecture and four hours laboratory a week. The origin, classification, life histories, habits and distribution of fishes, amphibians, reptiles and mammals.

Prerequisite: Zoology 212. Lab. Fee \$2.00.

**403. Entomology. 3 hrs.**

Two hours lecture and two hours laboratory a week. Anatomy, classification, life histories and economic importance of representative insects. Lab. fee \$2.00.

**404. Animal Parasitology. 4 hrs.**

Two hours lecture and four hours laboratory a week. Morphology, life histories, classification and host relationships of common parasites.

Prerequisite: Zoology 212. Lab. Fee \$2.00.

**408. Ornithology. 3 hrs. II, S.**

Two hours lecture and two hours laboratory a week. Identification, distribution, migration and breeding activities of birds. Lab. fee \$2.00.

**409. Animal Ecology. 3 hrs.**

One hour lecture and four hours laboratory a week. The distribution of animals in relation to the common types of habitats including the factors that determine such distribution.

Prerequisite: Zoology 211. Lab. fee \$2.00.

**411-412. Seminar. 1-1 hr. I, II.**

By permission of department head.

**413. Principles of Organic Evolution. 2 hrs.**

The progress of animal life through time with a discussion of known causes. No laboratory.

Prerequisite: Zoology 212.

**414. Wildlife Conservation. 3 hrs.**

The natural history, economic importance and control of wildlife. Lecture and field study.

Prerequisite: Eight hours of biological science or consent of instructor.

**450-451-452. Special Problems. 1 to 3 hrs. each. I, II, S.**

By permission of the department head.





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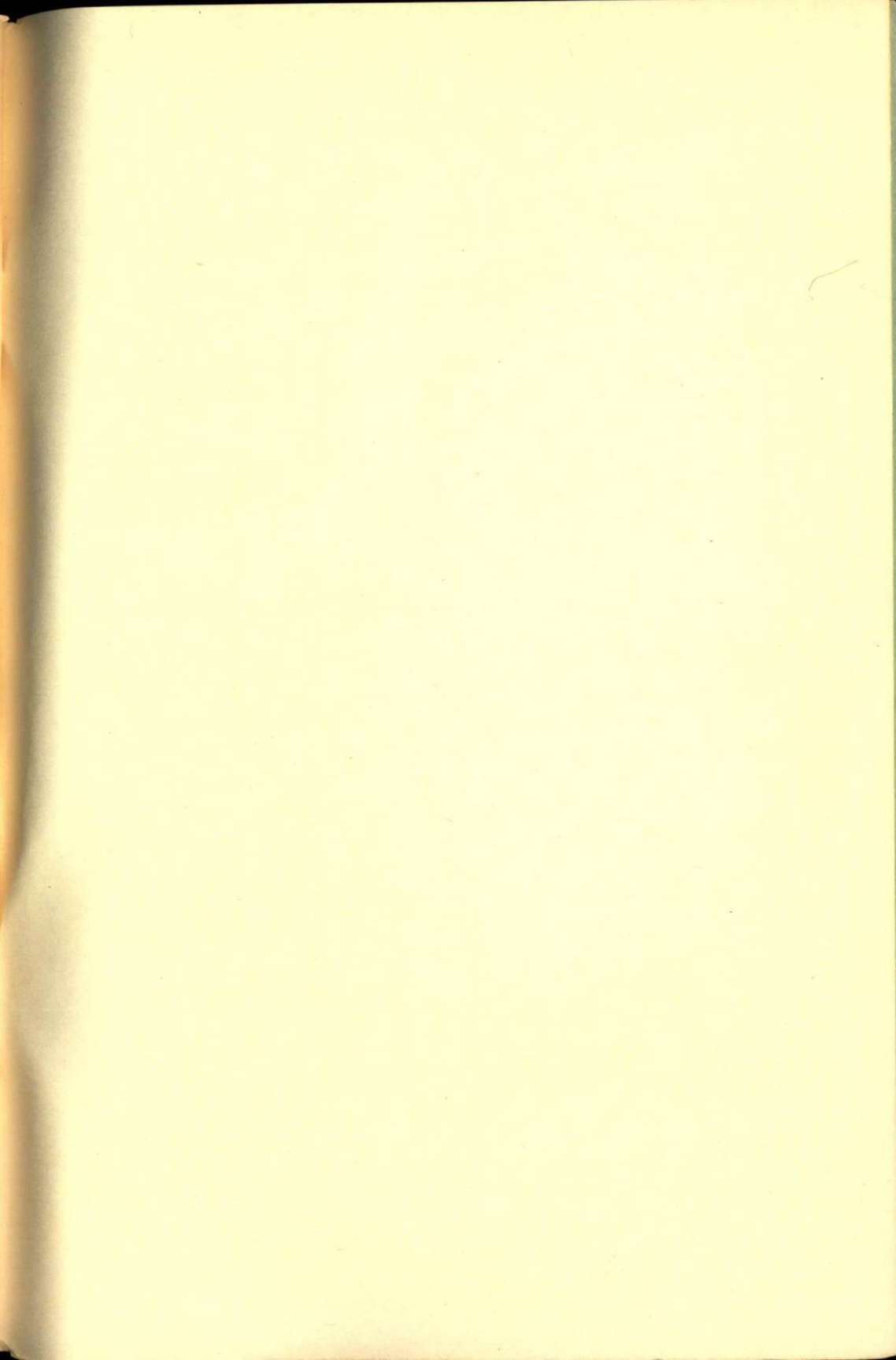
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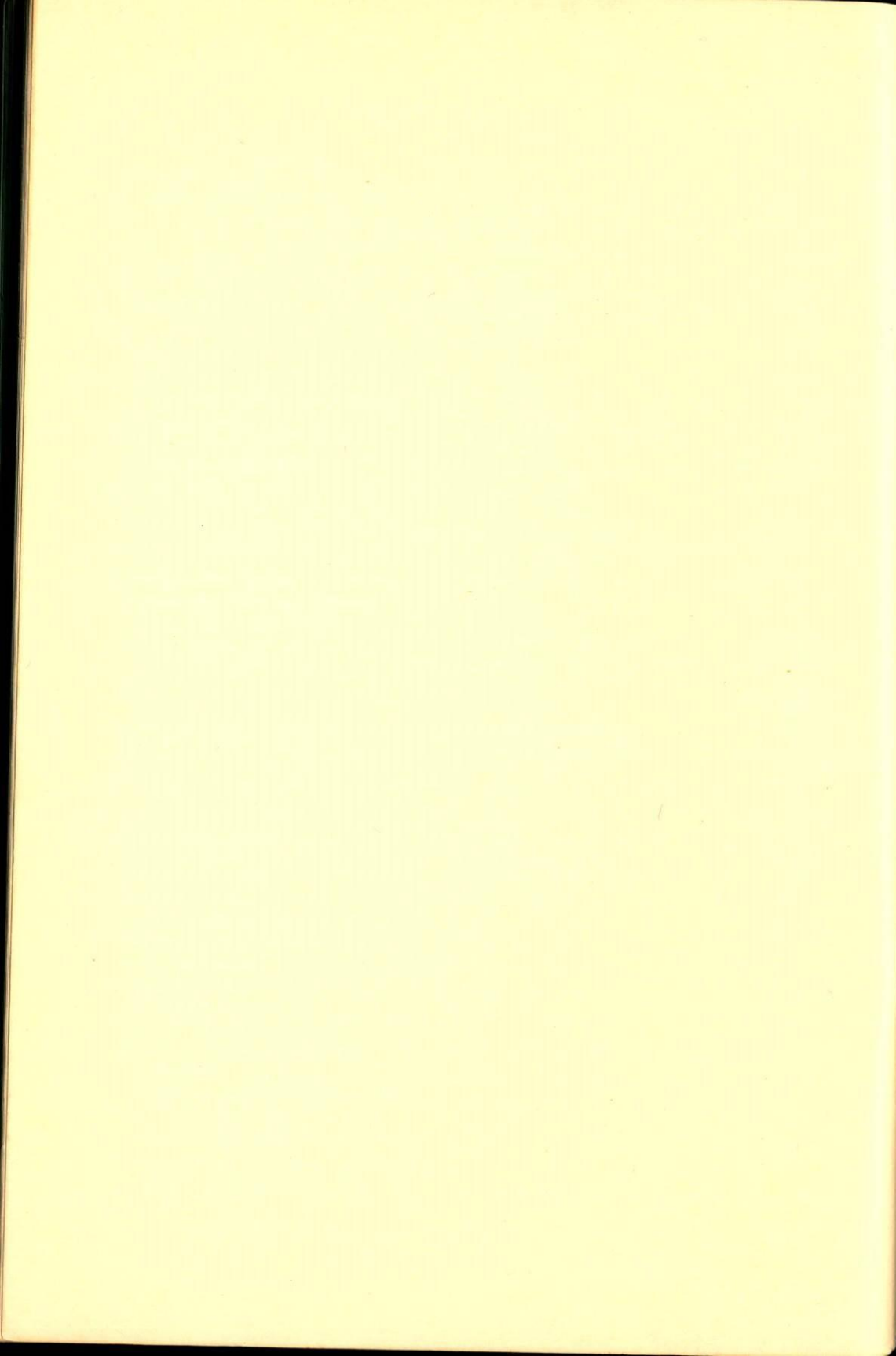
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