

1-1-1926

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# UNIVERSITY OF MONTANA BULLETIN

STATE UNIVERSITY SERIES

NUMBER 289

## STATE UNIVERSITY

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COLLEGE OF ARTS AND SCIENCES,  
SCHOOLS OF BUSINESS ADMINISTRATION,  
FORESTRY, JOURNALISM, LAW,  
MUSIC AND PHARMACY

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## THIRTY-SECOND ANNUAL CATALOGUE

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1926 - 1927

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ANNOUNCEMENTS FOR  
1927 - 1928

MISSOULA, MONTANA

MAY, 1927

Published monthly at Missoula, Montana. Entered as second-class matter at the postoffice at Missoula, Montana, under Act of Congress, August 24, 1912.



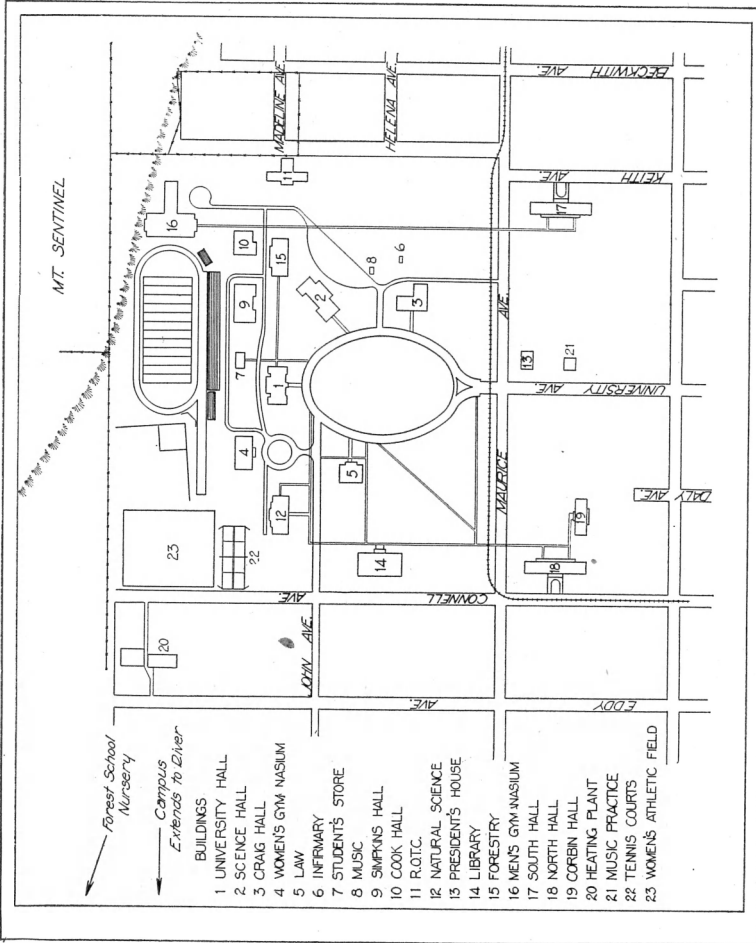


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Forest School Nursery

Campus Extends to Diner

BUILDINGS

- 1 UNIVERSITY HALL
- 2 SCIENCE HALL
- 3 CRAIG HALL
- 4 WOMEN'S GYM NASIUM
- 5 LAW
- 6 INFIRMARY
- 7 STUDENT'S STORE
- 8 MUSIC
- 9 SIMPSONS HALL
- 10 COOK HALL
- 11 ROTIC.
- 12 NATURAL SCIENCE
- 13 PRESIDENT'S HOUSE
- 14 LIBRARY
- 15 FORESTRY
- 16 MEN'S GYM-NASIUM
- 17 SOUTH HALL
- 18 NORTH HALL
- 19 CORBIN HALL
- 20 HEATING PLANT
- 21 MUSIC PRACTICE
- 22 TENNIS COURTS
- 23 WOMEN'S ATHLETIC FIELD

CAMPUS

1927							1928							1929													
JULY							JANUARY							JULY							JANUARY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
							1	2	3	4	5	6	7	1	2	3	4	5	6	7							
3	4	5	6	7	8	9	8	9	10	11	12	13	14	8	9	10	11	12	13	14	6	7	8	9	10	11	12
10	11	12	13	14	15	16	15	16	17	18	19	20	21	15	16	17	18	19	20	21	13	14	15	16	17	18	19
17	18	19	20	21	22	23	22	23	24	25	26	27	28	22	23	24	25	26	27	28	20	21	22	23	24	25	26
24	25	26	27	28	29	30	29	30	31					29	30	31					27	28	29	30	31		
31																											
AUGUST							FEBRUARY							AUGUST							FEBRUARY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
7	8	9	10	11	12	13	5	6	7	8	9	10	11	5	6	7	8	9	10	11	3	4	5	6	7	8	9
14	15	16	17	18	19	20	12	13	14	15	16	17	18	12	13	14	15	16	17	18	10	11	12	13	14	15	16
21	22	23	24	25	26	27	19	20	21	22	23	24	25	19	20	21	22	23	24	25	17	18	19	20	21	22	23
28	29	30	31				26	27	28	29				26	27	28	29	30	31	24	25	26	27	28			
SEPTEMBER							MARCH							SEPTEMBER							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
4	5	6	7	8	9	10	4	5	6	7	8	9	10	2	3	4	5	6	7	8	3	4	5	6	7	8	9
11	12	13	14	15	16	17	11	12	13	14	15	16	17	9	10	11	12	13	14	15	10	11	12	13	14	15	16
18	19	20	21	22	23	24	18	19	20	21	22	23	24	16	17	18	19	20	21	22	17	18	19	20	21	22	23
25	26	27	28	29	30		25	26	27	28	29	30	31	23	24	25	26	27	28	29	24	25	26	27	28	29	30
														30							31						
OCTOBER							APRIL							OCTOBER							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
2	3	4	5	6	7	8	1	2	3	4	5	6	7	7	8	9	10	11	12	13	7	8	9	10	11	12	13
9	10	11	12	13	14	15	8	9	10	11	12	13	14	14	15	16	17	18	19	20	14	15	16	17	18	19	20
16	17	18	19	20	21	22	15	16	17	18	19	20	21	21	22	23	24	25	26	27	21	22	23	24	25	26	27
23	24	25	26	27	28	29	22	23	24	25	26	27	28	28	29	30	31				28	29	30				
30	31						29	30																			
NOVEMBER							MAY							NOVEMBER							MAY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
6	7	8	9	10	11	12	6	7	8	9	10	11	12	4	5	6	7	8	9	10	5	6	7	8	9	10	11
13	14	15	16	17	18	19	13	14	15	16	17	18	19	11	12	13	14	15	16	17	12	13	14	15	16	17	18
20	21	22	23	24	25	26	20	21	22	23	24	25	26	18	19	20	21	22	23	24	19	20	21	22	23	24	25
27	28	29	30				27	28	29	30	31			25	26	27	28	29	30	26	27	28	29	30	31		
DECEMBER							JUNE							DECEMBER							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
4	5	6	7	8	9	10	3	4	5	6	7	8	9	2	3	4	5	6	7	8	2	3	4	5	6	7	8
11	12	13	14	15	16	17	10	11	12	13	14	15	16	9	10	11	12	13	14	15	9	10	11	12	13	14	15
18	19	20	21	22	23	24	17	18	19	20	21	22	23	16	17	18	19	20	21	22	16	17	18	19	20	21	22
25	26	27	28	29	30	31	24	25	26	27	28	29	30	23	24	25	26	27	28	29	23	24	25	26	27	28	29
														30	31						30						

# State University Calendar, 1927-1928

1927

## Spring Quarter

March 22, Tuesday.....	Registration of New Students
March 23, Wednesday.....	Instruction Begins
May 11-13, Wednesday-Friday.....	Interscholastic Meet
May 30, Monday.....	Memorial Day, a Holiday
June 4, Saturday.....	Class Day Exercises
June 5, Sunday.....	Baccalaureate Exercises
June 6, Monday, 2:00 p. m.....	Commencement
June 7-10, Tuesday-Friday.....	Examinations

## Summer Session

June 20, Monday.....	Registration
June 21, Tuesday.....	Instruction Begins
July 11, Monday.....	Second Term Begins
August 1, Monday.....	Third Term Begins
August 19, Friday.....	Session Ends

## Autumn Quarter

September 20-24, Tuesday-Saturday.....	Freshman Week
September 20-21, Tuesday-Wednesday.....	Registration of Freshmen
September 23-24, Friday-Saturday.....	Registration of Former Students and New Students with Advanced Standing
September 26, Monday.....	Instruction Begins
November 24, Thursday.....	Thanksgiving Day, a Holiday
December 12-16, Monday-Friday.....	Examinations
December 16, Friday, 4:30 p. m.....	Quarter Ends; Christmas Recess Begins

1928

## Winter Quarter

January 2, Monday.....	Registration of New Students
January 3, Tuesday.....	Christmas Recess Ends; Instruction Begins
February 17, Friday.....	Charter Day
March 12-16, Monday-Friday.....	Examinations
March 16, Friday.....	Winter Quarter Ends

### Spring Quarter

March 20, Tuesday.....	Registration of New Students
March 21, Wednesday.....	Instruction Begins
May 9-11, Wednesday-Friday.....	Interscholastic Meet
May 30, Wednesday.....	Memorial Day, a Holiday
June 2, Saturday.....	Class Day Exercises
June 3, Sunday.....	Baccalaureate Exercises
June 4, Monday, 10:30 a. m.....	Commencement
June 5-8, Tuesday-Friday.....	Examinations

### Summer Session

June 18, Monday.....	Session Begins
July 4, Wednesday.....	Independence Day, a Holiday
August 17, Friday.....	Session Ends

### Autumn Quarter

September 24-29, Monday-Saturday.....	Freshman Week
September 24-25, Monday-Tuesday.....	Registration of Freshmen
September 28-29, Friday-Saturday.....	Registration of Former Students and New Students with Advanced Standing
October 1, Monday.....	Instruction Begins
November 29, Thursday.....	Thanksgiving Day, a Holiday
December 17-21, Monday-Friday.....	Examinations
December 21, Friday, 4:30 p. m.....	Quarter Ends; Christmas Recess Begins

An Act of the Seventeenth Legislative Assembly provides that schools shall not be dismissed on the following days: February 12 (Lincoln's Birthday), February 22 (Washington's Birthday), second Tuesday of May (Arbor Day), June 14 (Flag Day), October 12 (Columbus Day), November 1 (Pioneer Day), November 11 (Armistice Day).

# Official Directory

## EXECUTIVE BOARD

CHARLES H. CLAPP (ex-officio).....	Missoula
S. J. COFFEE (term expires 1929).....	Missoula
J. M. KEITH (term expires 1927).....	Missoula
J. B. SPEER (Secretary).....	Missoula

## ADMINISTRATIVE OFFICERS

MELVIN A. BRANNON, Ph.D.....	Chancellor of the University of Montana
CHARLES H. CLAPP, Ph.D.....	President of the State University
FREDERICK C. SCHEUCH, M.E., A.C.....	Vice-President
RICHARD H. JESSE, Ph.D.....	Dean of Men
HARRIET R. SEDMAN (Mrs.), B.A.....	Dean of Women
SHIRLEY J. COON, Ph.D.....	Dean of the School of Business Administration
THOMAS C. SPAULDING, M.S.....	Dean of the School of Forestry
ARTHUR L. STONE, B.S.....	Dean of the School of Journalism
CHARLES W. LEAPHART, M.A., LL.B.....	Dean of the School of Law
DELOSS SMITH.....	Dean of the School of Music
CHARLES E. F. MOLLETT, M.S.....	Dean of the School of Pharmacy
JAMES B. SPEER, B.A., LL.B.....	Registrar and Business Manager
M. GERTRUDE BUCKHOUS, M.A.....	Librarian
W. E. MADDOCK, M.A.....	Director of the Public Service Division and Board of Recommendations

## THE FACULTY

### Professors

BATEMAN, WILLIAM G.....	Professor of Chemistry B.A., Stanford University, 1907; M.A., 1909; Ph.D., Yale University, 1916.
CLAPP, CHARLES H.....	Professor of Geology and President B.S., Massachusetts Institute of Technology, 1905; Ph.D., 1910.
CLARK, WESLEY P.....	Professor of Latin and Greek M.A., University of Richmond, 1906; Diplome d'Etudes Francaises, 1921 (Universitie de Montpellier, France).
COLVIN, HOWARD MILTON.....	Professor of Law B.A., University of Washington, 1910; LL.B., Yale University, 1912; J.S.D., 1926.
COON, SHIRLEY J.....	Professor of Business Administration and Dean of the School of Business Administration. B.A., Beloit College, 1909; M.A., Ohio State University, 1915; Ph.D., University of Chicago, 1926.



- CORBIN, FRANCES.....Professor of English  
B.L., Ohio College, 1902.
- \*DAUGHTERS, FREEMAN.....Professor of Education  
B.A., Kansas Normal College, 1896; S.T.B., Philadelphia Divinity  
School, 1903; M.A., Columbia University, 1915.
- ELROD, MORTON J.....  
.....Professor of Biology and Director of Biological Station  
B.A., Simpson College, 1887; M.A., 1890; M.S., 1902; Ph.D., Illinois  
Wesleyan University, 1905.
- \*GLEASON, HELEN.....Professor of Home Economics  
B.S., Columbia University, 1922.
- HAHN, JOHN R.....Acting Professor of Economics  
B.A., Franklin-Marshall College, 1912; B.D., Reformed Theological  
Seminary, 1915; B.D., Union Theological Seminary, 1917.
- JESSE, RICHARD HENRY.....Professor of Chemistry and Dean of Men  
B.A., University of Missouri, 1902; M.A., Harvard University,  
1907; Ph.D., 1909.
- KIRKWOOD, JOSEPH EDWARD.....Professor of Botany  
B.A., Pacific University, 1898; M.A., Princeton University, 1902;  
Ph.D., Columbia University, 1903.
- LEAPHART, CHARLES W.....  
.....Professor of Law and Dean of the School of Law  
B.A., University of Missouri, 1905; M.A., 1906; LL.B., Harvard  
University, 1913.
- LENNES, N. J.....Professor of Mathematics  
B.S., University of Chicago, 1898; M.S., 1903; Ph.D., 1907.
- MADDOCK, WILLIAM E.....Professor of Education  
B.L., Earlham College, 1894; B.A., Harvard University, 1904;  
M.A., Stanford University, 1922.
- MERRIAM, HAROLD G.....Professor of English  
B.A., University of Wyoming, 1905; B.A., Oxford University, Eng-  
land, 1907; M.A., 1911.
- \*MERRILL, ARCHIBALD S.....Professor of Mathematics  
B.A., Colgate University, 1911; M.A., 1914; Ph.D., University of  
Chicago, 1916.
- MILBURN, FRANK W.....Professor of Military Science and Tactics  
Major, U. S. Army.
- \*MILLER, J. EARLL.....Professor of History and Political Science  
B.A., University of Kansas, 1910; LL.B., 1912; M.A., University of  
Illinois, 1914; Ph.D., 1917.
- MOLLETT, CHARLES E. F.....  
.....Professor of Pharmacy and Dean of the School of Pharmacy  
Ph.C., University of Kansas, 1904; B.A., State University of Mon-  
tana, 1920; M.S., University of Kansas, 1927.

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\*On leave of absence 1926-27.

- PHILLIPS, PAUL C.....Professor of History and Political Science  
B.A., Indiana University, 1906; M.A., 1909; Ph.D., University of Illinois, 1911.
- POPE, WALTER L.....Professor of Law  
B.A., University of Nebraska, 1909; J.D., University of Chicago, 1912.
- RIEDEL, CLIFFORD.....Professor of Fine Arts
- ROWE, JESSE P.....Professor of Geology  
B.S., University of Nebraska, 1897; M.A., 1903; Ph.D., 1906.
- SCHEUCH, FREDERICK C.....Professor of Foreign Languages and  
Vice-President of the State University  
M.E., Purdue University, 1893; A.C. 1894.
- SCHREIBER, WILLIAM E.....Professor of Physical Education  
B.A., University of Wisconsin, 1904.
- SHALLENBERGER, GARVIN D.....Professor of Physics  
B.S., Oklahoma Agricultural and Mechanical College, 1912; B.A.,  
Tulane University, 1917; M.S., 1919; Ph.D., University of Chicago, 1923.
- SKEELS, DORR.....Professor of Forestry  
B.S., Michigan Agricultural College, 1904.
- SMITH, DELOSS.....Professor of Music and Dean of the School of Music
- SMITH, FRANKLIN O.....Professor of Psychology  
B.A., State University of Iowa, 1906; M.A., 1907; Ph.D., 1912.
- SPAULDING, THOMAS C.....Professor of Forestry and  
Dean of the School of Forestry.  
B.S., State University of Montana, 1906; M.S., University of Michigan, 1909.
- SPEER, JAMES B.....Professor of Business Administration,  
Registrar and Business Manager.  
B.A., State University of Montana, 1908; LL.B., University of Michigan, 1916.
- STONE, ARTHUR L.....Professor of Journalism and  
Dean of the School of Journalism.  
B.S., Worcester Polytechnic, 1884.
- \*\*UNDERWOOD, JOSEPH HARDING.....Professor of Economics  
B.A., Western College, 1902; M.A., Iowa State University, 1904;  
Ph.D., Columbia University, 1907.
- WEISBERG, A. HERMAN.....Professor of Violin
- WHITLOCK, ALBERT N.....Dixon Professor of Law  
B.A., University of Kentucky, 1906; M.A., 1908; LL.B., Harvard University, 1911.

#### Associate Professors

- BRADLEY, JOHN H.....Associate Professor of Geology  
B.A., Harvard College, 1921; Ph.D., University of Chicago, 1924.

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\*\*Deceased, October 24, 1926.

- BUCKHOUS, M. GERTRUDE.....Associate Professor of Library Economy and Librarian.  
B.S., State University of Montana, 1900; M.A., Columbia University, 1921.
- \*BURGEE, CLYDE E.....Associate Professor of Economics  
B.A., West Maryland College, 1914; M.A., Johns Hopkins University, 1920.
- CLARK, FAY G.....Associate Professor of Forestry  
B.A., University of Michigan, 1912; M.S.F., 1914.
- COOK, IRWIN W.....Associate Professor of Forestry  
B.S., Washburn College, 1907; M.S., University of Michigan, 1910.
- FREEMAN, EDMUND L.....Associate Professor of English  
B.A., Missouri Wesleyan College, 1915; M.A., Northwestern University, 1924.
- HOFFMAN, RUDOLPH O.....Associate Professor of Foreign Languages  
Ph.C., State University, Ghent, Belgium, 1910; M.A., University of Wisconsin, 1921.
- HOWARD, JOSEPH W.....Associate Professor of Chemistry  
B.A., Shurtleff College, 1912; M.A., University of Illinois, 1913; Ph.D., 1915.
- MIRRIELES, LUCIA.....Associate Professor of English  
B.A., Stanford University, 1909; Ph.D., 1924.
- SANFORD, EMMETT R.....Associate Professor of Business Administration  
B.S., Campbell University, 1894; B.A., State University of Montana, 1918; M.A., University of California, 1925.
- STEWART, J. W.....Associate Professor of Physical Education  
B.A., Geneva College, 1912.
- THOMAS, B. E.....Associate Professor of Foreign Languages  
B.A., State University of Montana, 1924.
- TOELLE, HOWARD.....Associate Professor of Law  
B.A., Indiana University, 1913; LL.B., Columbia University, 1914; M.A., 1916; L.L.M., Harvard University, 1925.
- YOUNG, R. T.....Associate Professor of Biology  
B.S., University of Pennsylvania, 1896; Ph.D., University of Nebraska, 1906.

#### Assistant Professors

- AMES, WALTER R.....Assistant Professor of Education and Psychology  
Ph.B., University of Wisconsin, 1917; Ph.M., 1918; Ph.D., University of Wisconsin, 1926.
- ARNOLDSON, LOUISE G. (Mrs.).....Assistant Professor of Foreign Languages.  
B.A., University of Utah, 1919; Diplome d'Etudes Francaises de Touraine, 1914 (Alliance Francaise-Universite de Poitiers).

\*On leave of absence, 1926-27.

- ATKINSON, ERNST A.....Assistant Professor of Psychology  
B.A., University of Denver, 1920; M.A., State University of Montana, 1922.
- BENNETT, EDWARD.....Assistant Professor of History and Political Science  
B.A., University of Kansas, 1916; M.A., University of Wisconsin, 1923; Ph.D., 1925.
- BERRY, BERNICE.....Assistant Professor of Music
- BURKE, MONICA FRANCES.....Assistant Professor of Home Economics and Director of Residence Halls.  
B.A., University of Montana, 1918; M.A., Columbia University, 1924.
- CAREY, EUGENE F. A.....Assistant Professor of Mathematics  
B.S., University of California, 1905; M.S., 1914.
- CAULKINS, RALPH M.....Assistant Professor of Military Science and Tactics.  
B.S., North Dakota College of Agriculture and Mechanical Arts, 1915; Captain, U. S. Army.
- CRUMBAKER, CALVIN.....Assistant Professor of Economics  
B.S., Whitman College, 1911.
- FEIGHNER, WINNIFRED.....Assistant Professor of Library Economy  
B.A., State University of Montana, 1908; B.S., Simmons College, 1909.
- FITZGERALD, BRASSIL.....Assistant Professor of English  
B.A., University of Arizona, 1923; M.A., Stanford University, 1924.
- GLICK, CARL.....Assistant Professor of English  
B.S., Northwestern University, 1915.
- HOUSMAN, ROBERT.....Assistant Professor of Journalism  
B.A., University of Missouri, 1922; M.A., 1925.
- HOWD, CLOICE.....Assistant Professor of Economics  
B.A., Linfield College, 1912; M.A., University of California, 1918; Ph.D., 1923.
- LACROIX, HAROLD J.....Assistant Professor of Military Science and Tactics.  
1st Lieutenant, U. S. Army.
- LAUX, MARY.....Assistant Professor of Physical Education  
B.A., State University of Montana, 1921; M.A., Columbia University, 1925.
- LITTLE, EDWARD.....Assistant Professor of Physics  
B.S., University of Washington, 1918; M.S., 1922; Ph.D., University of Illinois, 1926.
- MUNRO, KATHLEEN.....Assistant Professor of Music  
B.M., University of Washington, 1924.
- PLATT, ANNE.....Assistant Professor of Home Economics  
B.S., University of Washington, 1917.
- RHYNE, EDITH.....Assistant Professor of Home Economics  
B.S., College of Industrial Arts, 1918; M.A., University of Washington, 1926.

- SEVERY, JOSEPH W.....Assistant Professor of Botany  
B.A., Oberlin College, 1915.
- STIMSON, CLAUDE.....Assistant Professor of Economics  
B.A., State University of Montana, 1920; M.A., University of California, 1923.
- TONNING, OLE.....Assistant Professor of History  
B.A., Luther College, 1904; M.A., University of Michigan, 1906.
- WATERS, CHARLES W.....Assistant Professor of Botany  
B.S., Berea College, 1919; M.A., Ohio State University, 1921.

### Instructors

- ADAMS, HARRY F.....Instructor in Physical Education  
B.A., State University of Montana, 1921.
- ADAMS, WINONA.....Instructor in Library Economy  
B.A., State University of Montana, 1926.
- BADGLEY, E. KIRK.....Instructor in Business Administration  
B.A., State University of Montana, 1924.
- BAUMGARTNER, LEONA.....Instructor in Biology  
B.A., University of Kansas, 1923; M.A., 1925.
- BECK, N. B.....Instructor in English  
B.A., University of Washington, 1924; M.A., 1925.
- BIGELOW, MARION.....Instructor in Physical Education  
B.S., University of Wisconsin, 1926.
- \*DIXON, VIRGINIA.....Instructor in Economics  
B.A., State University of Montana, 1917; M.A., Columbia University, 1919.
- EMINGER, ELSIE.....Instructor in Foreign Languages  
B.A., State University of Montana, 1927.
- FINCH, EUGENE.....Instructor in English  
B.A., Columbia University, 1923.
- HAPNER, LEORA.....Instructor in Education  
B.A., State University of Montana, 1926.
- HOELSCHER, ALBERT H.....Band Director and Instructor
- KRAUSS, BERTHA.....Instructor in Library Economy  
Ph.B., Ohio State University, 1892; Certificate, Pratt Institute School Library Science, 1911.
- McKENZIE, EVA (MRS.).....Instructor in Latin and Greek  
B.A., Colby College, 1893; M.A., State University of Montana, 1925.
- MORRIS, ROBERT.....Instructor in Mathematics  
B.S., Gonzaga University, 1924; M.A., State University of Montana, 1926.
- PETERSON, META.....Instructor in Foreign Languages  
B.A., University of California, 1922.

\*On leave of absence, 1926-27.

- \*POLLEY, MAUDE M.....Instructor in Foreign Languages  
B.A., University of California, 1922; M.A., 1923.
- RAMSKILL, J. H.....Instructor in Forestry
- REES, JOHN A.....Instructor in Economics  
B.A., State University of Montana, 1920; LL.B., 1923.
- ROLSTON, BETSY.....Instructor in Library Economy  
B.A., University of California, 1923; M.A., 1924.
- SUCHY, JOHN F.....Instructor in Pharmacy  
Ph.C., B.S., State University of Montana, 1917.
- SWEARINGEN, T. G.....Instructor in Forestry and Maintenance Engineer  
B.A., State University of Montana, 1920.
- TERRY, HELEN.....Instructor in Foreign Languages  
B.S., Ohio State University, 1919; B.S. in Education, 1920; M.A.,  
1922.
- WEISBERG, FLORA (Mrs.).....Instructor in Foreign Languages

#### Assistants

- BLINN, HAROLD.....Assistant in History and Political Science
- FLOOD, ELIZABETH.....Assistant in Mathematics  
B.A., State University of Montana, 1926.
- GIARRATANA, JOSEPH.....Assistant in Physics
- HARBAUGH, M. J.....Assistant in Biology  
B.A., State University of Montana, 1926.
- KIRKWOOD, MAYWOOD.....Assistant in Military Science and Tactics  
Sergeant, U. S. Army.
- MUCKLER, WINIFRED (Mrs.).....Assistant in English  
B.A., State University of Montana, 1926.
- PETERSON, CLARENCE W.....Assistant in Military Science and Tactics  
Sergeant, U. S. Army.
- ROWE, ROYLE C.....Assistant in Geology  
B.A., State University of Montana, 1925.
- SMITH, FLORENCE R. (Mrs.).....Accompanist in School of Music
- TURCK, MADELINE.....Assistant in History and Political Science  
B.A., State University of Montana, 1923.

#### Library Staff

- BUCKHOUS, M. GERTRUDE.....Librarian  
B.S., State University of Montana, 1900; M.A., Columbia Uni-  
versity, 1921.
- FEIGHNER, M. WINNIFRED.....Assistant Librarian  
B.A., State University of Montana, 1908; B.S., Simmons College,  
1909.

\*On leave of absence, 1926-27.

PARSONS, MARGARET.....	Assistant Reference Librarian B.S. in L.S., Syracuse University, 1926.
KRAUSS, BERTHA .....	Cataloguer Ph.B., Ohio State University, 1892; Certificate, Pratt Institute School Library Science, 1911.
ADAMS, WINONA.....	Assistant Cataloguer and Instructor B.A., State University of Montana, 1926.
BENBROOKS, EDYTHE .....	Assistant B.A., State University of Montana, 1924.
ROLSTON, BERTSY.....	Instructor in Library Economy B.A., University of California, 1923; M.A., 1924.
WAYNE, JEANETTE .....	Assistant

#### Special Lecturer in Forestry

SCHENCK, C. A.....	Lecturer Universities of Tubingen and Giessen and Darmstadt Tech, 1885- 91; Ph.D., University of Giessen, 1894.
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#### ASSISTANTS IN ADMINISTRATION OFFICES

##### President's Office

McFARLAND, CARL.....	Secretary to President
RUMMEL, ANNA F.....	Clerk

##### Registrar's Office

JAMESON, LUCILLE M.....	Assistant Registrar B.A., State University of Montana, 1922.
STODDARD, HELEN F.....	Recording Clerk
STUBER, HARRY N.....	Assistant to Registrar B.A., State University of Montana, 1926.
LEONARD, MILDRED .....	Stenographer
PEAT, MILDRED E. ....	Stenographer

##### Business Office

BADGLEY, E. KIRK.....	Assistant Business Manager and Auditor Student Organizations. B.A., State University of Montana, 1924.
HERSHEY, ALICE .....	Cashier
DANIELSON, WALTER.....	Bookkeeper, Residence Halls
BROWN, MILTON .....	Bookkeeper
GEIL, IVAROSE .....	Stenographer
SMITH, ESTHER (Mrs.).....	Requisition Clerk and Stenographer
SCHROEDER, KATHERINE (Mrs.).....	Director, Clerical Service Division

##### Dean of Women

PORTER, WYNEMA (Mrs.).....	Secretary to Dean of Women B.A., State University of Montana, 1923.
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**Residence Halls**

- \*BRANTLEY, LOIS (Mrs.).....Social Director, North Hall  
 KESTER, ESTELLA (Mrs.).....Acting Social Director, North Hall  
 TURNER, BELLE (Mrs.).....Social Director, Corbin Hall  
 BURKE, MONICA FRANCES.....Business Director, Residence Halls  
     B.A., State University of Montana, 1918; M.A., Columbia University, 1924.  
 LOWMAN, LAGRETA.....Assistant Director, North Hall  
     B.S., Purdue University, 1920; M.A., Columbia University, 1924.  
 GROFF, HELEN.....Assistant, Corbin Hall  
     B.A., State University of Montana, 1926.  
 ROWE, ELIZABETH.....Assistant, South Hall  
     B.A., State University of Montana, 1925.

**Public Service**

- McINTOSH, KATHERINE.....Secretary to Director of Public Service  
 Division  
     B.A., University of California, 1920.

**Health Service**

- LeCLAIRE, A. F. (Mrs.) R. N.....University Nurse

**Physical Plant**

- HUGENIN, ROSCOE C.....Superintendent of Construction  
 SWEARINGEN, T. G.....Maintenance Engineer  
     B.A., State University of Montana, 1920.  
 McLAREN, LOUISE.....Stenographer  
 SPARKS, P. C.....Chief Janitor

**SPECIAL APPOINTMENTS FOR SUMMER SESSION 1926**

- BERGMAN, W. G.—B.A., M.A.....Assistant Professor of Psychology  
 CONKLING, GRACE—B.L.....Special Instructor in English  
 DAEHLER, MAX.....Professor of Music  
 FEE, IRA B.—B.A., M.A.....Special Lecturer in Education  
 FINEGAN, THOS.—Ph.D., L.H.D.....Special Lecturer in Education  
 HALL-QUEST, ALFRED—B.A., M.A.....Special Lecturer in Education  
 JOHNSON, ROSWELL—B.S., M.S.....Special Lecturer in Biology  
 KULP, D. H.—Ph.D.....Professor of Economics  
 LOGAN, S. R.—B.A.....Special Lecturer in Education  
 MEEK, CHAS.—B.A., M.A.....Special Lecturer in Education  
 MILLER, HARRY—B.A.....Special Lecturer in Education

\*On leave spring quarter, 1927.



MORSE, R. W.—B.A., M.A.....	Special Lecturer in English
SCHAPIRO, J. S.—B.A., Ph.D.....	Professor of History
SISSON, E. O.—B.S., B.A., Ph.D.....	Professor of Education
STIMSON, CLAUDE—B.A., M.A.....	Special Lecturer in Economics
TEMPLETON, PAYNE—B.A.....	Special Instructor in Education
THOMAS, J. F.—B.A., Ph.D.....	Professor of Economics

### STANDING COMMITTEES OF THE FACULTY

#### ABSENCE:

Jesse, Sedman, LeClaire, Registrar.

#### ADMISSION AND REGISTRATION:

Phillips, Chairman of department concerned, Registrar.

#### ADVISERS:

Jesse, Adams, Ames, Atkinson, Bateman, Beck, Bennett, Bradley, Burgee, Colvin, Crumbaker, Finch, Fitzgerald, Howard, Mirrielees, Morris, Sanford, Severy, Stimson.

#### ARCHIVES:

Buckhous, Phillips.

#### ATHLETICS:

Schreiber, Jesse, Laux, Milburn, Rowe, Spaulding, Stewart.

#### BUDGET AND UNIVERSITY POLICY:

Elrod, Coon, Jesse, Merriam, Phillips, Shallenberger, Stone.

#### CAMPUS DEVELOPMENT:

Elrod, Hugenin, Kirkwood, Spaulding, Swearingen (Secretary).

#### CERTIFIED PUBLIC ACCOUNTANCY:

Sanford, Colvin, Speer.

#### CURRICULUM:

The President, the Deans of Schools, the Chairmen of Major Departments, and the Registrar.

#### FACULTY AFFAIRS:

Carey, Elrod.

#### GRADUATE WORK:

Kirkwood, Chairman of department concerned, Registrar.

#### INTERSCHOLASTIC:

Rowe, Elrod, Freeman, Glick, Jesse, Howard, Schreiber, Sedman, Spaulding.

#### MILITARY:

Stone, Mollett, Kirkwood, Spaulding.

#### PUBLIC EXERCISES:

DeLoss Smith, Atkinson, Glick, McFarland.

#### PUBLICITY:

Stone, Housman.

#### RECOMMENDATIONS:

Maddock and major professor concerned.

## RESEARCH :

Lennes, Ames, Bradley, Coon, Freeman, Howard, Kirkwood, Mollert, Phillips, Platt, Shallenberger, Skeels, F. O. Smith, R. T. Young.

## SCHEDULE :

Bennett.

## SERVICE COMMITTEE :

Elrod, Leaphart, Scheuch.

## STUDENT LOAN :

Speer.

**CHAIRMEN OF DEPARTMENTS**

BIOLOGY, Professor M. J. Elrod.

BOTANY, Professor J. E. Kirkwood.

CHEMISTRY, Professor Richard H. Jesse.

ECONOMICS, Professor S. J. Coon.

EDUCATION, Professor Freeman Daughters (on leave).

EDUCATION, Professor W. E. Maddock (acting).

ENGLISH, Professor Harold G. Merriam.

FINE ARTS, Professor Clifford H. Riedell.

FOREIGN LANGUAGES, Professor F. C. Scheuch.

GEOLOGY, Professor J. P. Rowe.

HISTORY AND POLITICAL SCIENCE, Professor Paul C. Phillips.

HOME ECONOMICS, Professor Helen Gleason (on leave).

HOME ECONOMICS, Assistant Professor Anne Platt (acting).

LIBRARY ECONOMY, Associate Professor Gertrude Buckhous.

MATHEMATICS, Professor N. J. Lennes.

MILITARY SCIENCE, Major F. W. Milburn.

PHYSICAL EDUCATION, Professor W. E. Schreiber.

PHYSICS, Professor G. D. Shallenberger.

PSYCHOLOGY, Professor F. O. Smith.

**BOARD OF EXAMINERS IN CERTIFIED PUBLIC  
ACCOUNTANCY**

W. A. Logan, Helena : W. Grant Hoage, Butte ; A. J. Rowland (Secretary), Miles City.

## The University of Montana

An act of congress approved February 18, 1881 dedicated for university purposes in Montana seventy-two sections of the public domain. The enabling act, providing for the organization of the State of Montana and its admission to the Union February 22, 1889, confirmed this grant to the State and added 100,000 acres for a school of mines, 100,000 acres for normal schools, and 140,000 acres for an agricultural college.

The Third Legislative Assembly of the State of Montana, in February, 1893, enacted laws providing for the establishment of all these institutions, and locating the State University at Missoula, the State School of Mines at Butte, the State Normal College at Dillon, and the State Agricultural College at Bozeman.

As the lands granted for higher educational purposes, together with timber or stone thereon, have been sold, the proceeds have gone into permanent funds invested for the various institutions, and the interest on these funds, together with the rentals of unsold lands, has been used for the support of the respective institutions. These maintenance resources have been supplemented with appropriations made each subsequent biennium by the legislative assembly which has also provided for the erection of buildings at the expense of the State.

At the general election in November, 1920, two measures were enacted by a large majority, through popular initiative, for the financial support and development of the University of Montana. The first of these measures levies a tax of one and one-half mills on all the taxable property in the State annually for ten years for the maintenance of the University of Montana; the second provided for a State bond issue, from the proceeds of which three and three-quarters million dollars became available for the erection and equipment of buildings at the several institutions of the University of Montana.

These institutions were administered independently by the local executive boards for some years under the general supervision of the State Board of Education; by a law of 1909 the powers of the local boards were more closely defined and the direction of the State Board of Education made more effective. In 1913 the four institutions were combined into the University of Montana under the executive control of an officer whose title is Chancellor. The legislative assembly of 1927 provided for the organization of the Eastern Montana Normal School at Billings as the fifth unit of the University of Montana.

## The State University

The State University, located in Missoula, was formally opened in 1895. For four years the institution occupied temporary quarters. The local executive board, named by the governor, was made up of J. H. T. Ryman, Hiram Knowles and Thomas C. Marshall.

The campus site was donated to the State by Edward L. Bonner and Frances G. Higgins of Missoula. In 1897, the legislature authorized the issuance of bonds, in the amount of \$100,000, for construction purposes. With the funds received from the sale of these bonds University Hall and Science Hall were constructed. They were completed in 1899, at which time the State University occupied its permanent quarters. In 1901 an additional bond issue was authorized and, from its proceeds, Craig Hall and the Women's Gymnasium were constructed. In 1907, the Library building which is now occupied by the Law School was completed.

Oscar J. Craig of Purdue University was the first president, and with him were associated four other professors who composed the first faculty. During the administration of President Craig, from 1895 to 1908, the State University made remarkable progress. The faculty increased from five to thirty, and there was an even greater proportional increase in the number of students.

In 1908, Clyde A. Duniway of Leland Stanford University became president and carried on a policy of vigorous development. During his administration the School of Law was established and the Summer Session was made a part of the University.

Edwin B. Craighead, for eight years president of Tulane University, succeeded to the presidency of the State University in 1912. During the next few years Business Administration, Journalism, Pharmacy, Home Economics, and Forestry were added to the schools and departments of the State University.

In 1915 Professor Frederick C. Scheuch of the department of German was appointed acting president, and continued in that capacity until the summer of 1917. Edward O. Sisson, who had been holding the office of State Commissioner of Education in Idaho, was appointed president in 1917 and served until 1921. Upon his resignation Charles H. Clapp was appointed president.

From 1915 up to the present time the State University has undergone a marked development. Eight new buildings have been erected on the campus, new equipment has been added and old equipment improved, the faculty has increased to ninety; enrollment has greatly increased, courses of instruction have been expanded and strengthened and scholarship standards have been raised.

## SURROUNDINGS

The State University is situated at Missoula, county seat of Missoula county and principal city in western Montana. The city is easily reached, not only from any part of Montana, but from adjoining states by the main lines of the Northern Pacific and the Chicago, Milwaukee and St. Paul railroads and their various connections with other roads. In addition there are branch lines from the Coeur d'Alenes, and the Bitter Root and Flathead Valleys. As well as being easily accessible by rail, Missoula is on the Yellowstone Trail, and the International Parks Highway.

Missoula is a pleasant residence city with a population of sixteen thousand. It has an excellent climate and unsurpassed health conditions. Many miles of paved streets and an electric street car system make the campus of the University easily accessible from any part of the city. The surrounding country is a region of mountain ranges, peaks, gorges, streams, lakes and forests, all easily reached by rail or auto, and furnishing excellent opportunities for recreation. Altogether, Missoula is ideally located as a place for college residence.

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## THE CAMPUS

The campus, which has an area of approximately 100 acres, lies southeast of the town and at the foot of Mount Sentinel. In addition, the University owns 520 acres extending from the campus to the summit of the mountain, an elevation of 2,000 feet above the campus.

The construction of new buildings conforms to a plan for the development of the campus prepared in 1919 by C. H. Carsley with the advice and counsel of Cass Gilbert.

The plan calls for tapestry brick buildings, of three to four stories, grouped into two rectangles and a "line" about a central oval at the terminus of University Avenue, the principal arterial approach. The first or outer rectangle, between the educational group and the city residential district and bisected by University Avenue, is the dormitory group. The second rectangle flanks the oval, which is clear, and is terminated on the north by the general library and will be terminated on the south by a Business Administration building. The "line" next is the full length of the rectangles and faces the oval. The center building on the axis of University Avenue and the oval is the Administration building and auditorium.

At the rear of the "line" is a parking plaza parallel to the stadium and playing fields at the base of Mt. Sentinel. At opposite ends of the stadium and playing fields are the men's and women's gymnasiums.

**BUILDINGS**

There are eight modern fireproof buildings, all of which have been erected since 1922, with the exception of the Natural Science building which was constructed in 1918, as follows:

Library, containing departments of English, History and Economics, in addition to the general library.

Pinchot Hall, in which is located the School of Forestry.

Natural Science Hall, in which is located the departments of Biology, Botany, and Home Economics.

Men's Gymnasium.

Central Heating Plant.

North Hall, residence hall for women.

Corbin Hall, residence hall for women.

South Hall, residence hall for men.

The following group of buildings are of brick construction and include the original buildings on the campus:

University Hall, in which are located the departments of Education, Fine Arts, Geology, Mathematics, Psychology, School of Music, and the administrative offices.

Science Hall contains the Department of Chemistry and the School of Pharmacy.

The Law School building contains the quarters of the department of Foreign Language in addition to the School of Law.

Craig Hall, originally constructed as a dormitory in 1902, and being remodeled in 1927, will provide accommodations for the departments of Mathematics and Physics and the School of Business Administration.

There are also the following frame buildings:

Women's Gymnasium.

Simpkins Hall, which contains the Little Theater and accommodations for the radio broadcasting station KUOM.

Cook hall, in which is located the School of Journalism.

R. O. T. C. building.

Music Practice House.

President's House.

In addition to the above frame buildings there are the following service buildings: infirmary, carpenter shop, and campus store.

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**VALUE OF PLANT**

The value of buildings, equipment and grounds is approximately two and a quarter million dollars.

### THE LIBRARY

The general Library, consisting of about 90,000 volumes and 28,000 pamphlets, is housed in the Library building.

Admission to the shelves is restricted to the faculty, administrative officers and graduate students; other students may be admitted upon recommendation of their instructors. Students are allowed to withdraw books from the Library under reasonable regulations.

The Library receives over 500 periodicals, the current numbers of which are available in the reading room, as are newspapers and college exchanges.

The Library is the designated depository of documents issued by the United States government. It is also a depository for the publications of the National Organization for Public Health Nursing and similar organizations. These publications may be borrowed by any one in the State who is interested in public health work.

The Reading Room is open from 7:55 a. m., to 5:30 p. m., and from 7:00 to 10:00 p. m., except on Saturday, when the hours are from 8:30 a. m. to 12:00 m., and from 1:30 to 5:00 p. m. It is open from 2:30 p. m. to 6:00 p. m. on Sunday. Persons not connected with the University are free to use the books for reference.

As a part of the educational system of the State, the University Library is glad to extend all possible assistance to the high schools of the State. Under reasonable regulations, books and pamphlets will be loaned upon request, and where it is impossible to loan material, reference lists or suggestions as to sources of information are gladly given.

Gifts are always gratefully received, and anyone who is about to destroy pamphlets or periodicals is reminded that a library can preserve and make good use of much that is useless in a household. Material relating to Montana, by Montanans, or published in the State is particularly solicited; also files of state papers, especially early issues, and early catalogues of the University.

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### THE MUSEUM

The biological collections of the University are found on the second floor of the Natural Science building. Since the establishment of the first small museum in 1898, gifts and collections have been added increasingly. Special attention has been given to local fauna and flora and to the industries and resources of the State.

The museum as it is planned is not only a place where scientific treasures may be safely stored, but a place where visitors may derive information, where the public may see something of the State's scientific and material resources, and where University students may find material for study. Practically all of the material is used in instructional work.

It is requested that all who are interested in the preservation of valuable material for scientific work, should make special effort to contribute to the museum. Time and circumstances are fatal to nearly all specimens, but proper care in the museum will secure their preservation. Correspondence is solicited concerning material which may be donated. All donations will be acknowledged, and the articles properly labeled and the donor's name recorded.

The rocks, fossils, coals, minerals and ores are housed in the Department of Geology in Main hall.

The herbarium is in the department of Botany, adjoining the museum.

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### THE MONTANA SCHOOL OF RELIGION

The Montana School of Religion was organized in 1924 by a joint committee representing the University and several religious denominations for the purpose of making courses in religious education available to the students of the State University. The School of Religion is not a part of the State University, but is under a director who is responsible to a Board of Trustees representing the cooperating denominations and the University.

The following courses are offered: History of Religions, History of the Hebrews, and Beginnings of Christianity (1926-27 and alternate years); and Essentials of Religion for Today, Christian Ethics, and Social Message of the Prophets and Jesus (1925-26 and alternate years). In the 1927 Summer Session courses will be offered in the History of the Relations Between Science and Religion, and Christian Ethics in Relation to Modern Social and Ethical Ideals .

Registration is open to any regularly matriculated student in the University above freshman standing. The University allows a maximum of fifteen credits toward graduation for courses taken in the School of Religion. Additional information concerning these courses may be obtained from the Director of the Montana School of Religion at the State University.



# Requirements for Admission

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## CERTIFICATES AND TRANSCRIPTS

Certificates of application for admission properly filled out by the student and his high school principal should be sent to the Registrar. Students transferring from other colleges and universities should send transcripts of their record in the institutions previously attended and a statement of honorable dismissal from the institution last attended.

Certificates and transcripts of records relating to admission should be sent to the Registrar a month in advance of registration so that there will be ample time for notice of acceptance for admission to the University. Delay in sending certificates is likely to cause difficulty in registration, and frequently makes it impossible for the student to enroll in classes to which he might otherwise be admitted.

Applicants for admission who fail to present proper certificates will not be admitted to registration. Forms for applying for admission may be obtained on application to the Registrar.

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## GENERAL REQUIREMENTS

Applicants for admission must be at least sixteen years of age and must present evidence of good moral character.

The completion of a high school or preparatory course of four years is the standard for regular entrance. This must include at least fifteen units of work. A unit is the amount of work represented by the successful completion of one subject pursued for a school year of not less than thirty-six weeks, with five recitations per week, each recitation period being not less than forty-five minutes net. Two periods of laboratory, shop, or drawing work count as one recitation.

After September 1, 1927, graduates of accredited high schools may be admitted without examination only when their secondary courses include the following: Three units of English, one unit of American history, and at least two other units from each of three of the following groups: (a) mathematics, (b) history and social science, (c) laboratory science, (d) foreign languages.

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## ADMISSION ON CERTIFICATE

Graduates of any Montana high school or academy fully accredited by the State Board of Education, or of any high school or academy in another state accredited by the North Central Association, are admitted to regular standing by the presentation of an official certificate of graduation.

Graduates of any other secondary schools outside of Montana are admitted under similar conditions, if the school maintains, on the basis of regular inspection, accredited relationship with the State University or other university within the state included in the membership of the Association of American Universities.

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### ADMISSION BY EXAMINATION

Any person not a graduate of an accredited high school must, in order to be admitted to regular standing, pass satisfactory examinations on not less than fifteen units\* of secondary school work; provided, that any graduate of a Montana high school accredited by the State Board of Education for the work of only one, two, or three years, may receive entrance credit without examination upon such work as has been successfully completed in such accredited courses, as shown by official certificates.

Those who expect to take entrance examinations must notify the Registrar in advance, stating what subjects they desire to offer by examination. For the academic year 1927-28 the examination days are September 16 and 17, and for the winter and spring quarters by special arrangement.

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### CONDITIONAL ADMISSION

The entrance requirement of graduation from a four years' accredited high school course may be modified in individual cases by permitting the conditional admission of a student if he has at least fifteen entrance units and has been in regular attendance in a fully accredited high school for four years. To acquire regular standing such a student must present a total of sixteen entrance units. He must make up the number lacking in one year from the date of his first registration.

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### ADMISSION BY TRANSFER FROM OTHER COLLEGES AND UNIVERSITIES

Students from other colleges and universities of recognized standing will be admitted on presentation of certificates from the registrar that they have completed the regular entrance requirements, and are eligible to return. Credit will be given for work of collegiate grade done in other institutions of approved standing.

Graduates of an approved two-years' normal course requiring fifteen units for entrance are admitted to junior standing. Graduates

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\*These fifteen units must include the required subjects listed on page 26. A student offering foreign languages as a part of his preparation must present at least two units in one language.

of the Montana State Normal College who complete courses at the Normal College after graduation will be given full credit for all work which may be accepted toward satisfaction of major department or free electives. Students who complete only part of the two years' Normal College course may receive credit in the University for such work of college grade as may be found to represent the equivalent of courses required or permitted as electives in the University. In accordance with universal college procedure, such credits do not become part of the student's permanent record until he has established satisfactory standing by completion of work in residence.

When credits are accepted from another college grade points are evaluated at the time of transfer. (See pages 38-39.) A student entering with fewer grade points than credits must earn enough additional grade points in this university to give him a "C" average on all the subjects for which he has received credit. Every transfer student is required to maintain a "C" average on credits earned at this university.

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### ADMISSION OF SPECIAL STUDENTS

A student 21 years of age or more, not a candidate for a degree, may be admitted without the usual entrance units as a special student, if he gives satisfactory evidence that he is prepared to pursue successfully special courses desired. Such a student shall be permitted to continue in the University only in case he carries his work satisfactorily. If it becomes evident that he is unable to carry university work, his relations with the University may of course, be severed at any time. In order to be eligible to register for his fourth or any succeeding quarter as a special student, the sum of a student's grade points (both positive and negative) must be at least equal to the number of credits for which he has received a grade. (See pages 38-39.)

A special student may acquire status as a regular student and become a candidate for a degree either by taking entrance examinations, or by transferring to entrance credit sufficient credits earned in the University to make up all entrance units required for admission to regular standing, including the subjects listed on page 26. Before the student may register for his seventh quarter of residence, not including summer sessions, he must make up all entrance units required for admission to regular standing. The Registrar's office shall at that time transfer to entrance credit as many University credits as are necessary for such purpose at the rate of eight college credits for one entrance unit. In order to be eligible for a degree from the University, a special student must fulfill the same requirements for graduation as a regular student.

**Special students must file application for admission on a form provided for this purpose, which may be obtained from the Registrar. This application must include certificates of such preparatory work as the applicant has done.**

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### ADMISSION TO GRADUATE STANDING

Candidates for admission to graduate standing must have a bachelor's degree from the University of Montana or from another institution of approved standing.

Admission to candidacy for the Master's degree is granted by the Graduate Committee to students who, in addition to holding the baccalaureate degree from an institution of approved standing, have completed the requisite undergraduate work in the departments in which they wish to do graduate work, and are enrolled in an approved schedule of graduate courses.

# Requirements for Graduation

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## DEGREES AND CERTIFICATES

The Bachelor's degree is awarded to regular students who complete any of the four-year courses offered by the University and who fulfill the other conditions required for graduation.

The Master's degree is given to those who complete a satisfactory course of one year in work beyond that required for a Bachelor's degree.

The degree of Bachelor of Arts is conferred upon graduates of the College of Arts and Sciences. Students doing major work in Law and Music may also secure the Bachelor of Arts degree by meeting the requirements of the College of Arts and Sciences.

The degree of Bachelor of Arts in Journalism is conferred upon graduates of the School of Journalism.

The degree of Bachelor of Arts in Business Administration is conferred upon graduates of the School of Business Administration.

The University certificate of qualification to teach may be obtained by graduates of any of the four-year courses of the University who meet the requirements set forth on pages 33-34.

The University also issues a certificate for public accountancy under specified conditions. (See School of Business Administration.)

The degree of Bachelor of Laws is conferred upon graduates of the School of Law who have previously completed two years of college work.

The degree of Bachelor of Science in Forestry is conferred upon graduates of the School of Forestry.

The degree of Bachelor of Science is conferred upon graduates of the four-year course in Pharmacy. Graduates of the three-year course receive the degree of Pharmaceutical Chemist.

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## CANDIDACY FOR A DEGREE

Students of the University who are admitted as candidates for a degree must have satisfied the following conditions: (a) they must have fulfilled the entrance requirements of regular students; (b) they must complete the required curriculum of the course of the school in which they are registered. Students who are candidates for a degree or certificate must file formal application with the Registrar not later than the eighth day of the quarter immediately preceding the quarter in which they expect to complete their requirements.

### **CREDITS REQUIRED FOR GRADUATION**

The work in the University is named in terms of credit. One credit represents three hours of time per week for one quarter of twelve weeks. The time required for each credit may be distributed in any combination among preparation, recitation, lecture or laboratory work. Candidates for a Bachelor of Arts degree from the College of Arts and Sciences, the School of Business Administration, the School of Journalism, the School of Law, and the School of Music, and for the Bachelor of Science degree from the School of Pharmacy, are required to complete 180 credits in addition to the required credits in Physical Education. Candidates for a Bachelor of Science degree in Forestry must complete 186 credits in addition to two summers of approved field work, and the regular requirements in Physical Education and Military Drill. Candidates for a degree of Pharmaceutical Chemist must complete 141 credits including the requirements in Physical Education and Military Drill. Candidates for a degree of Bachelor of Laws must complete three years of law, totaling 126 credit hours, in addition to 93 hours of other University work.

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### **GRADE POINTS REQUIRED FOR GRADUATION**

Beginning September 1, 1924, a candidate for any degree or certificate granted by the University must have a number of grade points (see pages 38-39) at least equal to the number of credits earned; i. e., as many grade points as credits for which he has received a passing grade. This is equivalent to an average grade of "C" in all subjects for which he has received credit.

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### **RESIDENCE REQUIREMENTS FOR GRADUATION**

1. One year of residence, or four summer sessions of nine weeks each, in the State University during which the student must complete forty-five credits of college work, is the minimum requirement.
  2. Thirty-five of the last forty-five credits required for graduation must be earned in residence in the University.
  3. Not more than forty-five credits earned by correspondence study may be counted toward graduation.
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### **SENIOR EXAMINATIONS**

1. All students, before receiving the Bachelor's degree from the State University, may be required by the school or department in which they are majoring, to pass a special examination to be known as "Senior Examination" covering the field of concentration. Such

examination shall not in any way replace the regular quarterly examination except that departments adopting these Senior Examinations may excuse their major students during the senior year from regular quarterly examinations in major department subjects. Each department or school must announce its intention with regard to Senior Examinations in the annual catalogue.

2. The field of concentration shall include the total major requirements and such additional subjects as the major department or school may determine. It is to be understood that the questions asked are not to be limited to the courses taken.

3. The examination shall be a written examination of at least three hours, and in addition further oral or written examinations may be given.

4. The examination in each case shall be in charge of the major department or school concerned. Such parts of the examination as lie outside of the major subjects shall be furnished by the departments whose work is represented.

5. The examinations shall be given in the last quarter of senior residence and may be arranged in each department or school at the convenience of the persons concerned. Reports on such examinations shall be made to the Registrar not less than four weeks prior to the close of the quarter.

6. The same grades shall apply as in the quarterly examinations. If a student fails to pass this special examination he shall be given another opportunity within six months without the necessity of taking additional courses. In case of a second failure further opportunity will be granted at the discretion of the department or school concerned and the Committee on Admission and Registration.

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### SENIOR EXAMINATIONS FOR HONORS

A student who desires to become a candidate for honors must at the beginning of his last quarter have an average of two grade points for every credit for which a grade has been received; upon application within thirty days from the beginning of the quarter he shall be entitled to take Senior Examinations in his major department; he shall be awarded honors if he passes these examinations with a grade of "A" or "B."

# Training for the Profession of Teaching

## Nature of Training

Training for the teaching profession is carried on under the direction of the Department of Education with the cooperation of the other departments of instruction.

A School of Education has been authorized by the State Board of Education and will be organized as soon as the necessary resources are available.

The State University trains especially for the following fields in the teaching profession:

Teachers for Junior and Senior High Schools.

Superintendents and Principals.

Teachers of Professional Subjects.

Supervisors of Special Subjects, especially Music, Art, Home Economics and Physical Education including athletics.

## University Certificate of Qualification to Teach

The Certificate of Qualification to Teach is granted to persons who secure the Bachelor's or the Master's degree from the State University, and who complete the required professional courses established by state authority. The certificate is valid in grades 5 to 12 inclusive.

The following requirements have been established for the issuance of the University Certificate of Qualification to Teach after September 15, 1922:

(A) As a prerequisite to receiving the University Certificate of Qualification to Teach, candidates therefor must have received the bachelor's or a graduate degree from the State University of Montana.

(B) Candidates for the Certificate of Qualification to Teach must present: (a) **Major** preparation in some field or subject usually taught in high schools, which shall consist of not less than 40 college credits of work. No student seeking the certificate shall be required to take more than 54 credits in such field of major preparation. (b) **Minor** preparation shall also be required in at least one subject or field usually taught in high schools, which shall consist of not less than 25 college credits of work. (c) A second minor is recommended, but not required. Note:

When possible, students are urged to prepare in two or three minor fields, for the reason that many high schools require one teacher to give instruction in several branches.

(C) Candidates for the University Certificate of Qualification to Teach must also meet the following specific requirements of professional preparation or their equivalents:

(a) Four or five credits in General or Elementary Psychology.



(b) The following credits in the field of Education:

1. Three credits in School Hygiene.
2. Four credits in Educational Psychology.
3. Three credits in Principles of Education.
4. Four credits in Secondary Education.
5. Four credits in the History of American Education or any other four credits offered by the Department of Education.
6. Five credits in Observation and Teaching.

(D) Candidates for the certificate must demonstrate their ability to teach successfully.

**All candidates for the certificate should confer with the Department of Education not later than the beginning of their second year.**

The minimum number of credits in professional courses required by the North Central Association is now 22½ quarter credits. Students receiving the Certificate of Qualification to Teach will meet this requirement. Many other states require from 25 to 36 quarter credits of preparation in Education courses as a prerequisite to high school certification. Students expecting to teach in other states should prepare themselves accordingly.

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#### Credits on Other Certificates

Students taking University courses and desiring the credits applied on any teacher's certificate other than the University Certificate of Qualification to Teach, must conform to the prerequisites and other regulations established for such certificates. Information relating thereto may be obtained either from the office of the Registrar, the Department of Education, or the State Superintendent. All students desiring such credit for University courses taken during the academic year, should inform the Registrar, the Department of Education, and the instructor in charge of the courses of such purpose at the time of registration for the courses involved. This will avoid misunderstanding as to validity of such credits afterward.

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#### Board of Recommendations

The University endeavors to assist school authorities in need of trained teachers, principals and superintendents; and, in like manner, to assist teachers, principals and superintendents in finding positions which they, by training, ability and experience, are fitted to fill successfully. This work is carried on by the Board of Recommendations of which Professor W. E. Maddock is chairman. Confidential information is collected showing the preparation, character, ability, and success of persons interested in school positions, and this information is furnished school authorities upon application. This service is rendered gratuitously to teachers, educators and the schools of the state.

## Scholarship and Conduct

The University requires all its students to conform to the usual standards of society and law-abiding citizenship and to manifest a serious purpose by maintaining satisfactory standing in the courses which they undertake. No student is permitted to continue his connection with the University who shows persistent unwillingness or inability to comply with these requirements.

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### DEANS OF MEN AND WOMEN

The deans have general supervision and, subject to the rules of the faculty, final authority over scholarship honors and deficiencies, student affairs, the conduct, manner of living and all other matters pertaining to the welfare of students. They are always ready to render any help in their power to any student, either in educational or personal matters. They work through instructors and advisers in scholarship matters, but in personal affairs they are always accessible to the student who desires conference or counsel.

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### ADVISERS

Upon registration in the State University, each student is assigned to an adviser, who is a member of the faculty. The assignment is made on the basis of the student's probable field of major endeavor. The duty of the adviser is to assist the student in the selection and arrangement of his course of study. In the professional schools, the deans are the advisers of the students in their own lines of work. In the College of Arts and Sciences, the adviser is assigned with a view to securing the best results for the student from his relationship with his adviser. When the student selects a major department, often at the beginning of his Sophomore year and never later than the beginning of his Junior year, the chairman of that department becomes his adviser. The student's course arranged, his adviser becomes his counsellor during the progress of his University work; the adviser keeps himself informed regarding the student's work—his activities and his interests; he is always ready to counsel with the student in any matter, whether or not directly connected with his work in the institution. The adviser plan is based upon the expectation that the relationship between student and adviser will develop into practical, helpful friendship. The University rules require that the student shall consult his adviser at the beginning of each quarter and, again, one month later; but consultations should be more frequent than this. The adviser is consulted by the administrative authorities of the University in matters of discipline affecting a student under his supervision.

### FRESHMAN WEEK

In order to create a closer relationship between the Freshmen and the University, the first week of the autumn quarter is set aside exclusively for Freshmen and no regular classes are held. Freshmen register during the week and are given the opportunity to become acquainted with the ways of University life; lectures are given on the use of the library, and everything practicable is done to prepare the freshman for his college course.

Freshman Week grew out of the need of making the transition from high school to college as smooth as possible and the desirability of giving the freshman an idea of the proper attitude to be taken toward his college work. This is accomplished by giving the freshman time to become thoroughly acquainted with the campus and the proper use of equipment before instruction begins. Methods and practice of college study are explained in order that, from the beginning, the student may obtain more from his courses.

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### WOMEN IN THE UNIVERSITY

The social welfare of all women students is under the guidance of the Dean of Women. Scholarship deficiencies of women students receive the personal attention of the Dean of Women.

The residence halls for women, which are reserved for freshmen, enable the Dean of Women and the social directors to give that personal attention to the individual girl which characterizes the freshman dormitory plan. The rules and traditions of these halls have been formulated with the purpose of encouraging scholarship, safeguarding health and developing desirable social qualities.

The sorority houses in which many upper class women reside, are under the immediate social supervision of a housemother whose appointment is made with the approval of the Dean of Women. The private homes in which upper class girls obtain rooms must be approved. Both housemothers of sororities and landladies confer weekly with the Dean of Women in regard to the girls under their supervision and oversight.

All women in the University are members of the Associated Women Students, an organization which has general direction of matters pertaining to the student life of women which is not under the direct supervision of the faculty. Many of the regulations under which the women live are made by this organization and enforced by the executive board of the organization in cooperation with the Dean of Women. The Associated Women Students also have charge of many of the campus activities carried on by the women students, including the Big Sister Movement, the May Fete, the Coed Prom and the Vo-

cational Conference. This organization is making plans for a "Mother Day," a time to be set aside for the entertainment of mothers of women students.

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### **SOCIAL FUNCTIONS OF THE UNIVERSITY**

The approval of the Dean of Women is obtained for all social functions of student organizations at which women are present. The Dean of Women sees that approved chaperons are provided and schedules these functions for Friday and Saturday evenings only.

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### **ATTENDANCE**

If a student incurs seven or eight unexcused absences during a quarter, one grade point is deducted from the total of his grade points acquired; one additional grade point is deducted for each unexcused absence up to a total of twenty absences; and thereafter two grade points are deducted for each unexcused absence. Absences are not counted when a student is absent on departmental work or representing the University in extra-curricular activities.

Students who have more than 85 college credits and who are not on any form of probation are exempted from the above described absence penalty and from the necessity of presenting excuses for absence to the Absence Committee. Instructors shall report all absences of such exempted students to the Registrar's office each week, and shall consider such absences in assigning a grade. All students compelled to be absent from Missoula, including those so exempted, should report their intended absence in advance to the Registrar.

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### **ELIGIBILITY RULES**

The State University is a member of the Pacific Coast Intercollegiate conference, and its rules, as approved by the Faculty, govern all intercollegiate athletic contests. Participation in other extra-curricular activities, such as intercollegiate debate intercollegiate oratory, contests for University prizes, University dramatics, trip or formal concert of the Glee Club, is governed by the University's eligibility rules.

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### **SCHOLARSHIP GRADES**

Grades are given in the State University according to the following system of marking:

"A"—Work of the best grade.

"B"—Work better than average.

"C"—Average work.

"D"—Work below average, but of barely passing grade.

"E"—Condition.

"F"—Failure.

If all the work in a course has not been done and there is sufficient reason for this, the mark "I" is given. This incomplete work must be completed not later than the time of the next repetition of the course, but arrangements may be made with the instructor for its earlier completion.

In continuous courses, if a grade of "F" is given, the student's connection with the course is severed. All other grades must be followed by the letter "n," indicating that the course is a continuous one and that the completion of the quarter's work carries no credit toward graduation until the remaining quarters of the course are completed. The grade of any quarter of a continuous course shall be final, except that in thesis courses and courses offered by the Law School the grade of the last quarter shall apply to the whole course.

A student may withdraw from a course in which he has registered: (1) during the first and second weeks of a quarter, with the consent of his adviser and the instructors concerned; (2) during the period from the third to the ninth week, with the consent of adviser and instructor and the permission of the chairman of the Board of Advisers. In these cases the student is given a mark, "W," which carries no credit. After the ninth week, the student who withdraws receives a grade, usually "I." All withdrawals must be formal and must be recorded by the student with the Registrar.

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### GRADE POINTS

Each student receives the following number of grade points for each quarter credit for which he has been registered and for which he has received a grade: 3 grade points for each credit of grade "A"; 2 grade points for each credit of grade "B"; 1 grade point for each credit of grade "C"; 1 grade point for each credit of grade "plus"; 0 grade point for each credit of grade "D"; 1 grade point is deducted from his total for each credit of grade "E"; 2 grade points are deducted from his total for each credit of grade "F"; grade points are deducted from his total as a penalty for absence according to the rulings on page 37.

A candidate for any degree or certificate granted by the University must have a number of grade points at least equal to the number of credits earned, i. e., as many grade points as credits for which he has received a passing grade. This is equivalent to an average grade of "C" in the subjects for which he has received credit. In a subject in which an "incomplete" grade has been received, grade points will be

counted on the grade received when the incomplete is removed. When credits are accepted from another institution the grade points are evaluated at the time of transfer; however, a student is required to make an average grade of "C" on credits earned at this University, as well as on his entire record.

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### HONOR ROLL

At the close of each quarter's work an honor list is published.

A student shall be eligible for the honor roll in any quarter provided:

- (1) He have no grade of "E" or "F."
- (2) He have at least 33 grade points for the quarter.

# Fees, Expenses, and Living Accommodations

## STUDENT FEES

All fees must be paid at time of registration, except as otherwise stated.

The entrance fee, student activity fee, and health service fee are not charged students registering for less than six credits.

Graduate students pay the same fees, omitting the student activity fee, as undergraduate students. Visitors or listeners pay the same fees as students who register for credits.

Students who withdraw or are dropped during a quarter receive no refunds.

High school honor scholarships and military service scholarships exempt holders from payment of the entrance fee, the registration fee, and the incidental fee. The privileges of high school honor scholarships may be retained only when the rules relating to scholarship standing are complied with (see page 49).

Scholarships granted by the State Federation of Women's Clubs and the Butte College Club exempt holders from payment of the entrance, incidental, and registration fees, provided the same rules relating to scholarship standing are complied with as govern exemption by high school honor scholarships.

The following are the fees authorized for the college year, 1927-28:

Entrance (or Matriculation) Fee.....	\$5
Payable by all students on first registration, except those registered for less than six credits.	
Registration Fee (per quarter) .....	\$5
Payable quarterly by all students regardless of number of credits registered for.	
Incidental Fee (per quarter).....	\$10
Payable quarterly by all students registered for six or more credits, to cover laboratory supplies in all courses, library book rentals, locker fees, gymnasium towel service, etc. This fee does not include loss, breakage or fines. Students registered for less than six credits are charged \$5.	
Late Registration Fee .....	\$1
Payable by students who complete registration after the prescribed registration days of any quarter. For each college day \$1, not exceeding a total of \$5. This fee applies to both "new" and "former" students.	
Non-Resident Fee (per quarter).....	\$25
All students not residents of the State of Montana unless matriculated before September 1, 1923 in the University of Montana, are	

required, in addition to all other fees, to pay a special non-resident fee of twenty-five dollars per quarter. Part-time students are required to pay a non-resident fee of only two dollars per quarter-credit, with a minimum of ten dollars per quarter.

No person is considered eligible to register as a resident of the State of Montana unless he has resided in the State for the twelve months next preceding the date of proposed registration, and no person is considered to have gained residence in the State while a student of the University of Montana unless, or until, his parents move into the State and acquire bona fide residence.

The burden of registering under proper residence is placed upon the student. If there is any possible question of his right to legal residence the matter should be brought to the attention of the Registrar and passed upon, previous to registration or the payment of fees. Any student who registers improperly under this rule not only is required to pay the non-resident fee, but is assessed a penalty of \$10.

Student Activity Fee (per quarter).....	\$5
Entitles to subscription to college paper, the college annual, free admission to all intercollegiate athletic and debate contests, and class dues.	
Health Service Fee (per quarter).....	\$2.50
This fee covers advice by the University Nurse, who has general supervision of the student's health. Medical and emergency surgical attention, hospital care, and medicines, authorized by the University Nurse, are also paid for from this fee, on a proportional basis each quarter, insofar as receipts from this fee are sufficient. The Health Service Fee is not charged during the Summer Session.	
Change of Enrollment Fee.....	\$1
Payable by each student for each change of enrollment card filed after the first week of the quarter \$1; after the second week, \$2.	
Special Examinations .....	\$2
Payable by students applying for special examinations.	
Removal of Incompletes or Conditions (not due to illness or fault of Institution) .....	\$2
Student Hand Books .....	\$1
First book free.	
Extra Transcript of Record .....	\$1
First transcript free.	
Application for Degrees and Certificates (Delayed).....	\$5
Applications for degrees and certificates must be filed not later than the eighth day of the quarter immediately preceding the quarter in which the student expects to complete his requirements.	



Students who do not file such applications at this time may file the application at a later date only upon the payment of a fee of \$5.

Diploma Fee .....\$5

Payable by candidates for degrees and certificates at the time the application is filed.

For fees charged in the School of Music see School of Music.

For correspondence study fees see Correspondence Courses.

## The Residence Halls

The State University adopted the freshman dormitory plan in 1923. All freshmen whose homes are not in Missoula are required to live in the residence halls unless permission to live elsewhere is granted for special reasons.

The freshman year is the most trying of the student's college course. College standards are different from high school standards. There is more freedom (than in high schools), and yet there is more individual responsibility. To introduce the student to these new conditions, to guide him towards pleasant mastery of them, and to give him the fullest opportunity to develop his own individuality in his own way, is the purpose of the freshman dormitory plan.

The social, moral and educational welfare of the residents of the halls is under the general supervision of the Deans of Men and Women. Social directors who give personal attention to the needs of each student reside in each hall. The students who live in the halls are organized into clubs and assist in the management of social and general interests. In the construction and the arrangements of the residence halls, and in their management, the most highly recommended and successful means of attaining a happy, healthful, inspiring, industrious atmosphere have been considered.

The health of the residents of the halls is looked after daily by the University Nurse.

The business management of the halls is in charge of a business director of residence halls.

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### RATES

The following rates apply to the three residence halls, Corbin and North for women, and South Hall for men.

Double rooms, \$33.00 per quarter for each occupant.

Single room, \$48.00 per quarter.

Board by the month, \$25.00.

The University reserves the right to raise or lower the rates with reasonable notice. All occupants of the halls are required to board in the halls in which they reside. Application for admission to the halls must be accompanied by a deposit of \$10.00; the application must be made upon a form furnished by the University.

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### NORTH HALL

#### (Residence Hall for Women)

This building is of three stories with basement and of fireproof construction. On the first floor are the living rooms, dining room, reception rooms, office, and directors' suites.

On the second and third floors are the student rooms, each with lavatory and double clothes closets. The rooms are well lighted, steam heated, and finished with composition floors, the woodwork is painted ivory.

In the basement are employees' rooms, students' laundry, trunk rooms, storerooms, and refrigerator unit.

Rooms are furnished with study table, chairs, single beds, mattresses, pillows, dresser, bed linen and curtains. All bedding, day covers for beds, towels, drapes and rug, are to be furnished by the students.

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### **CORBIN HALL**

#### **(Residence Hall for Women)**

Corbin Hall is the last building constructed on the campus. It is of brick and fireproof construction with three stories and full basement. On the first floor are the parlor, directors' rooms, hall, office, and several student rooms. In the basement are the dining rooms and kitchen. The second and third floors are given over to student rooms. The student laundry is on the second floor.

The walls and woodwork are finished in cream. All rooms are equipped with single beds, mattresses and pillows, dresser, study table, chairs, curtains, and bed linen. Towels, drapes, day covers for beds, a rug, and bedding are furnished by the occupants. Each bedroom has a lavatory with hot and cold water. The double rooms contain two clothes closets.

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### **SOUTH HALL**

#### **(Residence Hall for Men)**

South Hall, a new fireproof building, consists of three stories and basement. The dining room occupies the center of the building on the first floor.

The second and third floors are devoted entirely to student rooms and studies. Each bedroom has a lavatory with hot and cold water. The double rooms contain two clothes closets. All bath rooms have showers.

In the basement are employees' rooms, students' laundry, trunk rooms, storerooms, and refrigerator unit.

All walls are finished in ivory with woodwork in gray. Rooms are furnished with study table, chairs, single beds, mattresses, chiffoniers, two army blankets, pillows, bed linen and curtains. All bedding (except the two army blankets), day covers for beds, towels, and a rug are to be furnished by the students.

**LIVING ACCOMMODATIONS FOR UPPERCLASS STUDENTS**

The Dean of Men has general supervision over the housing of men students and the Dean of Women of women students.

Upper class students have no difficulty in securing satisfactory rooms in private homes or in rooming houses near the campus. The rates for double rooms vary from \$8.00 to \$12.50 a month; for single rooms from \$12.50 to \$18.00. Board may be obtained at the University dining hall in Corbin Hall or at boarding houses at rates varying from \$25.00 to \$35.00.

Student rooms must be approved by the University. A list of approved rooms in private residences may be obtained on application to the Dean of Women. Arrangements for reservation of rooms in private residences must be made directly with the landlady. Since there is no scarcity of rooms students will ordinarily find it more satisfactory to arrive a day or two before registration and personally select their rooms.

**EXPENSES**

Minimum and average expenses of students for the college year are estimated as follows:

Books and Equipment .....	\$20.00 to \$ 40.00
Fees .....	22.50 to 72.50
Room rent for one (two in a room).....	72 to 112.50
Board .....	210.00 to 250.00
Laundry .....	15.00 to 30.00
<b>Total .....</b>	<b>\$339.50 to \$505.00</b>

This includes only the necessary expenses. Other expenses should be provided for, including clothing \$150.00 to \$250.00, and incidentals about \$10.00 per month. The expenditures for clothing and incidentals are similar to expenditures for these purposes at home. If a single room is desired, a minimum of \$35.00 additional should be provided.

The minimum expense of \$22.50 for fees is applicable only to holders of high school honor scholarships and similar scholarships which are available to students from Montana high schools. Students not residents of the State of Montana require \$75.00 additional for payment of the non-resident fee, making a total of \$142.50 for fees for non-resident students for each college year.

Parents are advised to place all students on a fixed allowance rather than to give them an unlimited sum on which to draw.

For information about earning expenses see page 47; student loan funds page 46; scholarships and prizes, pages 49-54; railroad\*fare refund, page 46.

### RAILWAY FARE REFUND

In accordance with the provisions of Chapter 49 of the Session Laws of 1923, enacted by the Eighteenth Legislative Assembly, and under regulations established by the State Board of Education, railroad fare in excess of fifteen dollars actually paid by any student for a round trip by the most direct route available between his Montana home and any institution of the University of Montana once each year, will be refunded. Students must present receipts for the fare thus paid.

In order to be entitled to the refund students must satisfactorily carry a normal amount of work, and must be in attendance either throughout the college year or through the summer quarter.

Claims for refunds must be presented within thirty days after the close of the term in which the student was last in attendance .

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### GENERAL UNIVERSITY STUDENT LOAN FUNDS

The Montana Bankers' Association Student Loan Fund and the Edward C. Elliott Loan Fund are available for students in the junior and senior classes of any of the institutions of the University of Montana, who are unable to continue their studies without financial aid, and are satisfactorily recommended as to character and scholarship by the dean or director of the department in which the applicant's major work is done. The loan to any one student is limited to two hundred dollars during his course, and not more than one hundred dollars in any year. Loans must be repaid within one year after the borrower's graduation. Loans bear two per cent interest to maturity and six per cent thereafter.

The Grand Commandery of Knights Templar of Montana has established a loan fund which is available under similar conditions. Loans from this fund bear five per cent interest, and are payable in specified installments, one, two, three, and four years after the borrower's graduation.

University women may borrow under similar terms from the loan fund founded in 1922 by the Missoula branch of the American Association of University Women and from the loan fund of the Associated Women Students. The Missoula Rotary Club has also recently established a loan fund for the benefit of men students who are residents of Missoula.

Application blanks and a statement of detailed regulations governing these loans may be obtained from the Business Manager.

## EMPLOYMENT AND AID FOR STUDENTS

Many students, in making their plans to enter college, are confronted with the necessity of earning all or at least a part of their expenses while in college. Such students should first realize that, in order to work one's way through college, it is necessary to sacrifice some pleasures and to apply themselves diligently to the task before them. The necessary effort and sacrifice can only be made when there is an earnest desire on the part of the student for higher education. Self-supporting students enjoy the highest respect and regard both of their fellow students and of the faculty.

The Student Employment Secretary of the University keeps in close touch with all sources of employment, and is able, in this way, to give considerable assistance to worthy students in finding work. The interests of women students seeking employment are looked after by the Dean of Women. Assistance and cooperation in this work is given by the Missoula Chamber of Commerce, the Missoula Women's Club, and the business men and residents of Missoula in general. With a little assistance at the beginning, a student often finds it possible, after becoming somewhat acquainted, to find sufficient employment on his own initiative. Free tuition and low registration fees at the State University are also a considerable advantage to self-supporting students who are residents of Montana.

Business houses in Missoula employ students as clerks, janitors, stenographers, bookkeepers, waiters, dishwashers, porters, bell boys, automobile mechanics, musicians, clothes pressers, solicitors, and collectors. There are many calls for students to do "odd jobs" in private homes, such as garden work, window washing, furnace tending, handling coal and wood, picking apples, and general cleanup work. There are some jobs at the University such as janitor work, waiting on tables in dining halls, stenography, and, for upper class students, employment as laboratory and library assistants. The employment policy is to assist first those most in need of employment. Other factors, however, are taken into consideration, such as the student's scholarship, ability and dependability.

Students planning to earn all or a part of their expenses are not advised to enter the University with less than \$250 or \$300. This sum is usually sufficient to take care of all necessary expenses for the first two quarters giving the student time to get well started in his studies, and to find employment. Entering the University with less than this amount is a serious handicap to a new student, and usually results in poor scholarship, and ultimate withdrawal from the University because of a lack of funds. If, on the other hand, a student has earned and saved this amount before entering the University, that fact is a good indication that he will succeed in college.

It is impossible for the University to give students any definite assurance of employment in advance of their arrival and personal application. Upon arriving at the University, men students should apply to the Student Employment Secretary, and women students, to the Dean of Women, who will be glad to advise them regarding employment and give them every aid possible.

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### HEALTH SERVICE

The University maintains a health service. All freshmen receive a thorough physical and medical examination by a regular practicing physician at the time of their entrance to the University. Advice and care are given by the University nurse, who has general supervision of student health and investigates all cases of students reported to be ill. When medical attention is necessary, the nurse calls any regular physician practicing in Missoula whom the patient may desire.

Although not required, students are urged to be vaccinated for small-pox and typhoid fever before coming to the University.

The service is supported by a fee of \$2.50 per quarter charged each student. Insofar as the fund derived from this fee is sufficient, students are reimbursed for bills incurred with the authorization of the University nurse for medical and emergency surgical attention, hospital charges, and medicines. The fund is usually sufficient to reimburse each student seventy-five per cent of such bills.

## Scholarships and Prizes

The deans of men and women in conference with the president are authorized to administer all matters connected with prizes and scholarships, subject to the condition of gift and any actions by the faculty. Where the award of a prize is conditional upon performance in, or in relation to, the work of a department of the University the award shall be made by the deans upon recommendation of the department concerned. Where the award is not conditioned upon performance in, or in relation to any one department of the University, specific regulations shall apply as may be determined by the donor, or by the faculty or by the administrative officers. Such as are at present established are stated and shall be awarded as follows:

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### HIGH SCHOOL HONOR SCHOLARSHIPS

In order to promote the attendance of students of ability and promise at the several institutions of the University of Montana it is the declared policy of the State Board of Education to provide for the awarding of scholarships to be known as High School Honor Scholarships, to graduates of the accredited public high schools of the state.

The principal of each fully accredited high school in the state may nominate from each year's graduating class from one to four members, depending upon the size of the class (but not more than two for any institution), to be the recipients of high school honor scholarships. These scholarships exempt the holders from the payment of the entrance fee, the registration fee, and the incidental fee described on page 40. Blanks for the nomination of scholars with detailed statement of conditions, will be furnished to the principals by the Chancellor of the University, State Capitol, Helena.

A faculty rule, at the State University, provides that the privileges of the scholarship will be withdrawn during the year succeeding failure to maintain an average of 25 grade points per quarter for the quarters attended. The scholarship does not apply to the Summer Session.

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### STATE FEDERATION OF WOMEN'S CLUBS SCHOLARSHIPS

Upon nomination of the officers of the Montana Federation of Women's Clubs, the State Board of Education has authorized the award of one scholarship each year in each of the institutions of the University of Montana.



The Federation of Women's Clubs assumes the payment of expenses for board, room rent and necessary books by a gift for the first year and funds provided on the loan basis for the remaining three years. The present holders of this scholarship are Olga Hammer of Valier, Mrs. Hulda M. Miller Fields of Hardin, and Violet Watters of Nashua.

The holders of such scholarships are exempted from the payment of the entrance fee, registration fee, and the incidental fee, provided the same rules relating to scholarship standing are complied with as govern exemption by high school honor scholarships.

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### BUTTE COLLEGE CLUB SCHOLARSHIPS

The College Club of Butte maintains four loan scholarships at the State University, as follows:

- Claribel Leggat Couse Scholarship.
- Eleanor Humphrey Smith Scholarship.
- Rosemary MacGinnis Creden Scholarship.
- Natalie Lahr Dwight Scholarship.

One scholarship each year is offered to a Butte High School girl graduate. Candidates for the scholarships must have high grades in the High School and must receive the vote of two-thirds of the club's active membership. These scholarships are on the loan plan, \$300 being allowed each year to each recipient.

The holders of these scholarships are exempted from the payment of the entrance, registration and incidental fees provided the same rules relating to scholarship standing are complied with as govern exemption by High School Honor Scholarships. The present holders of this scholarship are Vera Vern Phelps, Mildred Barnes, and Eleanor Keefe.

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### MILITARY SERVICE SCHOLARSHIPS

Upon the proper certification of the President of the University that a student has rendered military or naval service to the nation in time of actual war and has been honorably discharged, the Chancellor of the University of Montana will authorize the award of a Military Service Scholarship to such student. The holders of such scholarships will be exempt from the payment of the entrance fee, the registration fee, and the incidental fee.

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### FOREIGN SCHOLARSHIPS

Any European student whose expenses are borne by the American Legion in accordance with the plan for international exchange of stu-

dents which has been arranged by the Interallies Veteran Congress may be exempt for one year from the entrance, registration and incidental fees.

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### **THE BONNER SCHOLARSHIP**

The Bonner Scholarship was founded by Mrs. E. L. Bonner of Missoula. The purpose of this scholarship, amounting to three hundred dollars per year, is to aid a student of fine mental and moral qualities to obtain a university education who otherwise might find it highly difficult if not impossible to do so. It is awarded to a student ranking among the highest in scholarship at the end of his freshman year, to be held by him for three years unless forfeited. The present holder of the Bonner Scholarship is Joseph Giarratana, Jr., of Glendive.

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### **THE STRAUGHN SCHEUCH SCHOLARSHIP**

The Straughn Scheuch Scholarship was founded in 1920 by Professor and Mrs. F. C. Scheuch in honor of their son, Straughn Scheuch, who died while a student in the State University. The scholarship is awarded under the following conditions:

1. The scholarship will be awarded to a man registered in the College of Arts and Sciences, with full sophomore standing at the time of appointment, and certified by the Registrar as being in line for graduation at the June Commencement two years from the time of appointment.

2. First consideration will be given to men dependent in whole or in considerable part on themselves for support.

3. The choice is based upon general excellence including particularly (1) character, (2) scholarship, (3) loyalty, (4) leadership, (5) physical soundness and strength, and (6) the possession of a definite and worthy purpose for life. The Committee of Selection is given full discretion in weighing these and other elements.

The selection will be made by a committee consisting of the President of the State University, the Dean of Men, and a third member, a citizen of Missoula, to be chosen by the two ex-officio members of the committee.

This scholarship was awarded to Arnold Gillette of Lewistown in June, 1925.

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### **THE RHODES SCHOLARSHIP**

Men who have completed their sophomore year at the State University of Montana, and are between 19 and 25 years of age, are eligible to compete for the Cecil Rhodes Scholarships, tenable for three years at Oxford University, England, with a stipend of four hundred

pounds each year. These scholarships are awarded on the combined basis of character, scholarship, physical vigor, and leadership in extra curricular activities. Further information may be obtained from Professor W. P. Clark, State University, Missoula, Montana, who is the State University representative for the Rhodes Scholarship.

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#### **THE JOYCE MEMORIAL PRIZE**

The Annie Lewis Joyce Memorial prize shall be awarded upon recommendation of the English Department. The proceeds of the Joyce endowment of \$200 shall be bestowed in the form of a medal or otherwise at the option of the winner. In 1926 this prize was awarded to Elsie McDowall of Butte.

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#### **BENNETT ESSAY PRIZE**

This prize shall be awarded upon recommendation of the Department of History and Political Science. The annual proceeds of \$500 are given as a prize (in money or a medal of equivalent value, at the option of the successful contestant) for the best essay by any regular undergraduate student of the University, on some topic pertaining to good government. No prize is awarded, however, in case the judges decide that none of the essays is good enough to receive recognition. In 1926 first prize was awarded to Carl McFarland of Great Falls.

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#### **THE 1904 CLASS PRIZE**

This prize is \$20 payable from the interest on an endowment of \$400 founded by the class of 1904. The prize was awarded by the Department of Physics in 1926 to Joseph Giarratana, Jr., of Glendive.

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#### **THE C. A. DUNIWAY SCHOLARSHIP BOOKS**

A fund of four hundred dollars established by former President Duniway provides standard books, within various fields of knowledge, to be awarded annually to students distinguishing themselves by scholarship in the several departments of the University.

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#### **ABER MEMORIAL ORATORICAL PRIZE**

A fund of one thousand dollars was set aside by the late Professor William M. Aber for the establishment of the Aber Memorial Oratorical prizes. A first prize of thirty-five dollars and second prize of fifteen dollars are awarded annually to the winners in an oratorical contest.

In 1926 the first prize was awarded to Louis Aronowsky of Washington, D. C., second prize was awarded to Ralph Edgington of Billings.

### **THE RIDER ART PRIZE**

The Rider Art Prize is given annually by Dr. T. T. Rider of Missoula to the student in the Department of Fine Arts who shows the greatest advancement in art during the year. This prize shall be awarded upon recommendation of the Art Department. The prize in 1926 was awarded to Louise Nickey of Jordan.

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### **THE PI MU EPSILON PRIZE**

The Pi Mu Epsilon prize in mathematics is given every other year to alternate with the Duniway prize in the Department of Mathematics. This prize is of the same nature, and is awarded under the same conditions, as the Duniway prize, and is given by the local chapter of Pi Mu Epsilon, honorary mathematics fraternity.

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### **SHAVER SCHOLARSHIP PRIZE**

A prize of \$25 is awarded annually by Dr. R. C. Shaver of Missoula to the sorority and the fraternity making the highest scholarship average for the year.

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### **SILVER BOW CHAPTER D. A. R. PRIZE**

A prize of \$20 is awarded annually by the Silver Bow Chapter, Daughters of the American Revolution, of Butte, for the best year's work in history. The work shall include at least one-half year of American (United States) history. The half-year shall be interpreted as not less than five quarter hours. The student to receive the award shall be recommended for it by his professor and endorsed by the president of the University.

The prize for 1926 was awarded to Carl McFarland of Great Falls.

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### **PRIZES IN PHARMACY**

The Kappa Psi Senior Scholarship prize, given by the Kappa Psi National Pharmacy fraternity, is awarded annually to one of its members provided that a member of Kappa Psi makes the highest general average among all of the pharmacy students in all classes. Awarded in 1926 to Theodore Walker of Helena.

The Lehn and Fink gold medal is awarded annually to a member of the graduating class making the highest general average in the pharmacy courses, but not awarded to a member receiving the Kappa Psi prize. Awarded in 1926 to Charles W. Abbott of Missoula.

Life membership and dues in the National Association of Drug Clerks is awarded annually to each of the three students ranking highest in the three major divisions of Pharmacy.

**THE MONTANA TROPHY**

The Montana trophy shall be awarded annually to the student possessing the highest all-round excellence in athletics and scholarship. The trophy is a silver cup given by Professor W. E. Schreiber, chairman of the Department of Physical Education. Awarded in 1926 to Edward Walter Illman of Glasgow.

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**THE CORPUS JURIS PRIZE**

The American Law Book Company awards annually, to a student in the class in the Use of Law Books, a prize consisting of several volumes of "Corpus Juris."

# Activities

## ATHLETICS

All athletic activities in the University are under the control and supervision of the Faculty Athletic Committee. Eligibility of athletes for intercollegiate competition is in the hands of the Faculty Athletic Committee. The details of management of intercollegiate athletics are in the hands of the athletic director subject to the approval of the General University Board on Athletics, which consists of the Faculty Athletic Committee, three members of the Central Board of the Associated Students, and two alumni members.

The University has two gymnasiums, one for women and one for the men. The men's gymnasium, completed in 1922, is one of the finest in the country. The gymnasium floor is 75x140 feet in size with separate rooms for boxing, wrestling, fencing and theory classes. The first floor is given up to administrative offices, locker rooms, varsity teams' rooms, and training rooms. A wing of the building contains the shower rooms and swimming pool. The entire building is equipped with the very latest and best apparatus of all kinds.

The women's gymnasium is equipped with dressing rooms, shower rooms, rest rooms, offices, class rooms, and contains a gymnasium floor 45x90 feet in size. It is fully equipped with the best gymnastic apparatus. In the new gymnasium is a large locker and shower room set apart for the use of women, and the natatorium is reserved for their use half of the time.

To the north of the men's gymnasium is the new Dornblaser athletic field, which was presented to the University by the Alumni Association. A standard quarter mile cinder track encloses the football field and pits for pole vaulting and jumping. The track has a 220-yard straightaway, 35 feet wide. North of the football field is the new baseball diamond. The new bleachers, extending nearly the full length of the field, have a seating capacity of 7,000. Concrete tennis courts have been constructed north of the women's gymnasium and are for the exclusive use of the women's department. To the east of the tennis courts a women's athletic field is being built to take care of hockey, association football and baseball.

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## ANNUAL INTERSCHOLASTIC GAMES

For twenty-four years the University has held annual interscholastic invitation meets for track and field contests on its athletic field. Invitations to participate are extended to all fully accredited high schools in the state.

In determining and administering rules of eligibility for contests the University has the aid of the Montana High School Athletic Association. This is a league of accredited high schools of the state, organized for the promotion and control of athletics.

Interscholastic week is by no means devoted entirely to athletics, however. The girls' declamatory and the boys' declamatory contests, the Little Theatre tournament, the interscholastic debate to decide the state championship, the meetings of the Interscholastic Editorial Association—these events attract students from all parts of the state.

Interscholastic Week at the State University of Montana has come to be one of Montana's institutions. The meet is one of the largest interscholastic track and field contests held in the country.

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### HIGH SCHOOL DEBATING LEAGUE

A Debating League having for its object improvement in debate among students in high schools of the state was organized by high school principals and superintendents at a meeting held at the University on May 17, 1906. One of the provisions of the constitution is that the president shall be a member of the faculty of the University. The final contest between the various district winners is held annually as a feature of the Interscholastic Meet. The winners are rewarded by various University prizes.

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### INTERCOLLEGIATE DEBATE

The State University engages in debate with the leading Universities of the Northwest and occasionally with Eastern Universities that have teams traveling in the West. In addition to the regular debates, teams from the State University make a tour of the state each year. Whenever foreign teams, traveling in the United States, visit the West, debates with them are scheduled if possible. The activity of debate at the State University affords the finest opportunity for students in public address to combine academic, class, and practical experience.

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### PUBLICATIONS BY STUDENTS

The Associated Students of the University publish a semi-weekly newspaper, the Montana Kaimin. The paper, through the effective efforts of its corps of editors, has become a permanent factor in the University life.

The Sentinel is a year book prepared by the Junior class and published by the Associated Students of the University. It contains a valuable record of the activities of each year.

The Frontier, a quarterly magazine, is published by the students and faculty of the Department of English.

### THE UNIVERSITY RADIO BROADCASTING STATION

After a year of experiment and preparation, the broadcasting station of the State University of Montana was officially opened on Charter Day, February 17, 1925. The station has been broadcasting regularly since that time except for a period during the summer of 1925 when it was closed to increase the power and make other improvements. It now has a power rating of 500 watts and a wave length of 244 meters.

With the improvements and increased power the University Radio Station, KUOM, came on the air in the fall of 1925 with a double series of programs. A program of market reports and weather reports is broadcast daily at 6:30 P. M. and recreational and informational programs on Sundays at 9:15 P. M. and Mondays and Thursdays at 8:00 P. M. Popular talks, literary readings, fact talks, and lectures by members of the faculty together with vocal and instrumental music drawn from the University glee clubs, symphony orchestra, band, music faculty, and artists residing in Missoula make up the Monday and Thursday programs. On Sunday a program of religious and classical music and a radio sermon compose the program.

During the period of its operation the radio station has been instrumental in bringing thousands of people in touch with the University as evidenced by the letters which have been received from all parts of the continent.

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### SOCIETIES

The entire student body is organized in one society known as the Associated Students of the State University of Montana. This organization, through appropriate committees and officers, has charge of matters of general student concern such as athletics, oratory, debate, and entertainments.

The Associated Women Students is an organization made up of all women students in the University for the purpose of regulating matters pertaining to the student life of its members.

A branch of the Y. W. C. A. is organized in affiliation with the intercollegiate association. This organization, the University Inter-Church Club, and various church clubs and associations carry on work for the religious and social life of the University.

Five musical organizations are in existence—the University Glee Club, composed of men; the Women's Glee Club; the Choral Society, composed of men and women; the University Symphony Orchestra; and the University Band. These organizations provide music for University events during the year, and furnish an opportunity for all students who have musical talent to cultivate it as well as to participate in the social pleasures pertaining to such organizations. The Men's Glee Club makes a tour of the state every spring.



The "M" Club is an organization of all University men who have won a letter in any branch of athletics. Its purpose is the betterment of University spirit, with athletics especially in view.

The Montana Masquers is the University dramatic organization, open to students who have distinguished themselves in dramatics in any capacity; acting, stage managing, costuming, designing, etc. A series of plays is given throughout the year in Missoula, and at least one tour is made of the state. A subsidiary organization, the University Players, from which the Masquers select their membership, is made up of all students taking part in University dramatics.

The Penetralia Chapter of Mortar Board is an honor organization of upperclass women devoted to advancing the interests of the University in every feasible way.

The Silent Sentinel is a similar organization of upperclass men.

Bear Paw is an organization of sophomore men which assists in the entertainment of visiting teams.

The Tanans is a society of sophomore women for the purpose of taking care of women guests at the University during the year and of assisting the Bear Paw organization in any way in University affairs among women students.

Other student organizations are as follows: Alchemist Club, Art League, Debating Union, Forestry Club, Grizzly Chapter of the Disabled Veterans of the World War, Home Economics Club, International Club, Law School Association, LeCercle du Chevalier de la Verendrye (affiliated with the Alliance Francaise), Mathematics Club, Music Club, Pharmacy Club, Philosophical Club, Press Club, Quadrons (organization of senior girls), Rifle Club, and Women's Rifle Club.

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### HONORARY AND PROFESSIONAL FRATERNITIES

Alpha Kappa Psi is a national commercial fraternity with a membership of students doing major work in the school of business administration.

Delta Phi Delta is a national fraternity open to both men and women students who have proved themselves gifted in art.

Delta Psi Kappa is a national women's physical education fraternity.

The Druids is a local semi-professional and honorary forestry fraternity.

Gamma Epsilon Pi is a national commercial fraternity for women.

Kappa Psi is a national pharmaceutical fraternity for men. Its membership is limited to major students in Pharmacy who show marked ability in their work.

Kappa Epsilon is a national women's pharmaceutical fraternity with requirements similar to those of Kappa Psi.

Kappa Tau is a local honorary fraternity founded upon scholarship.

Phi Delta Phi is a national legal fraternity. Candidates for membership must have consistently maintained a high degree of scholarship and must declare their intention of engaging in the active practice of law.

Phi Mu Epsilon is a national mathematics fraternity. Candidates for membership must have consistently maintained a high degree of scholarship in mathematics and in other University work.

Phi Sigma is a national biology fraternity open to both men and women.

Scabbard and Blade is a national fraternity for R. O. T. C. majors.

Sigma Alpha Iota is a national women's music fraternity.

Sigma Sigma is a local premedical fraternity.

Sigma Delta Chi is a national professional journalism fraternity with membership limited to men doing major work in journalism who show marked ability in their work.

Theta Sigma Phi is the women's journalism fraternity with requirements for admission similar to those of Sigma Delta Chi.

# Organization of Instruction

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## I. COLLEGE OF ARTS AND SCIENCES.

- 1—Biology.
- 2—Botany.
- 3—Chemistry.
- 4—Economics.
- \*5—Education.
- 6—English.
- 7—Fine Arts.
- 8—Foreign Languages: French, German, Spanish, Latin and Greek.
- 9—Geology.
- 10—History and Political Science.
- 11—Home Economics.
- 12—Library Economy.
- 13—Mathematics.
- 14—Military Science.
- 15—Physical Education.
- 16—Physics.
- 17—Psychology and Philosophy.

## II. SCHOOL OF BUSINESS ADMINISTRATION.

## III. SCHOOL OF FORESTRY.

## IV. SCHOOL OF JOURNALISM.

## V. SCHOOL OF LAW.

## VI. SCHOOL OF MUSIC.

## VII. SCHOOL OF PHARMACY.

## VIII. GRADUATE STUDY.

## IX. SUMMER SESSION.

## X. PUBLIC SERVICE DIVISION.

## XI. BIOLOGICAL STATION.

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\*The organization of this department into a school has been authorized by the State Board of Education.

# College of Arts and Sciences

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## CURRICULUM IN ARTS AND SCIENCES

Note—In the following outline of courses, the length of a course and the quarter or quarters in which it is given are indicated immediately after its title. Courses numbered from 11 to 99 are offered to undergraduates only; those numbered from 101 to 199 are offered to both undergraduates and graduates (the amount of graduate credit allowed is determined by the department concerned and the graduate committee); those numbered from 201 to 299 are offered to graduates only. In the courses designated "continuous" the student may receive credit only upon the completion of the entire course. In courses numbered a, b, c, credits may be granted upon completion of a quarter's work. This outline is as nearly complete as it is possible to make it and it affords the student information which is necessary in arranging his course. When the student has decided upon his major course, he is expected to follow closely the work which is outlined as the required course in that line of study or research.

The University reserves the right to withdraw any course for which fewer than five students are enrolled before the opening of the course. Such courses may be given only in special cases and with the written approval of the President.

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Candidates for a degree of Bachelor of Arts in the College of Arts and Sciences must complete 180 credits in addition to the requirements in Physical Education. Of these not less than 93 credits must be in the College of Arts and Sciences. Not more than 27 credits in music, of which not more than 3 credits may be in ensemble work; nor more than 21 credits in Military Science will be counted toward graduation. Candidates are required to have a number of grade points at least equal to the number of credits earned.

The College of Arts and Sciences offers the student a liberal education and special training in some chosen field of work. For this purpose it has adopted a flexible curriculum. The student selects a major department in which he must obtain from forty to fifty-five credits, and he must also get acquainted with the other fields of liberal education. In order to meet the latter objective he is required to take courses in each of the larger divisions included under Liberal Arts.

Students entering the State University after September 1, 1927, will be required to offer for admission the subjects listed on page 26 of the catalog. Other students must offer three entrance units in English, three units in science or mathematics, one unit in American History and Government and one additional unit in social science, or their equivalent in college work. (Eight credits of University work are regarded as equivalent to one unit of high school work.)

In addition to satisfying the entrance requirements, all candidates for the Bachelor of Arts degree must meet in the University the requirements listed below:

1. Physical Education, 6 quarters (6 credits) required of all freshmen and sophomores less than 27 years of age, unless excused for cause.
2. Military Drill, 6 quarters (6 credits) required of all freshmen and sophomore men who are less than 27 years of age unless excused for cause.
3. English Composition, 2 quarters (8 credits). The first quarter must be taken in the freshman year and the second quarter in the sophomore year, normally in the corresponding quarter. A student making a grade of A in the first quarter of required English Composition shall be exempted from the second quarter.
4. Foreign Language, 5 quarters (25 credits) in one language, subject to the following conditions:

Entrance credit in foreign language may be offered in satisfaction of this requirement, one unit being regarded as equivalent to two quarters of university work. Students desiring to offer entrance credit toward this requirement must take a placement examination. Those who are found by the departmental examination to be unprepared for the class for which they are eligible may be placed in a lower class; such students may receive credit for only one quarter of a foreign language below the class for which their entrance credits would normally prepare them.

Students who enter with one unit of language and pass a placement examination are required to complete only three quarters of the same language in the University; those who enter with two units, one quarter. Students who enter with three or more units in one foreign language, upon passing a test at the University, shall be regarded as having fulfilled all foreign language requirements for graduation.

Note: One quarter of a foreign literature given in English (in a course not normally open to freshmen) may be substituted for the fifth quarter of the foreign language requirement, provided it is not used to satisfy the restricted elective requirements in literature.

5. Astronomy, Biology, Botany, Chemistry, Geology, Mathematics, Physics; 3 quarters (12 credits, eight of which must be in one science or in mathematics). The combined sciences for high school and the University must include not less than two different sciences of this group. In each of these two sciences the student must offer not less than one unit or eight credits.
6. Economics, History, Political Science, Sociology; 2 quarters (8 credits).
7. English Literature, Philosophy, Psychology; 2 quarters (8 credits).

### MAJOR-DEPARTMENT ELECTIVES

Not later than the junior year, every student must choose a major department. This department may command from 40 to 55 credits of the student's time. Not more than 65 credits in any department may be counted for graduation. In the department of Foreign Languages not more than 65 credits in one language nor more than a total of 90 in Foreign Languages may be counted for graduation. Juniors and seniors must plan their course of study with the advice of their major professors.

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### FREE ELECTIVES

The remainder of the 180 required credits are free electives after the restricted electives and the major department requirements have been met. Until choice of a major department is made, a student's electives are subject to the advice of an appointed faculty adviser; after this choice, the head of the department selected becomes the adviser.

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### REGISTRATION

Regular students in the College of Arts and Sciences are required to follow a curriculum so that they will normally complete all the required courses and restricted electives before the end of their junior year.

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### FRESHMAN REGISTRATION

All students are required during their freshman year to take the following work:

1. Physical Education; 3 credits.
2. Military Drill (for men); 3 credits.
3. At least two different courses selected from those listed on pages 61-62.

During one quarter of the freshman year the student must carry a course in Freshman English. During any one quarter freshmen will not be allowed to carry more than three courses in addition to Physical Education and Military Science.

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### SOPHOMORE REGISTRATION

All students are required during their sophomore year to meet the following requirements:

1. Physical Education; 3 credits.
2. Military Drill (for men); 3 credits.

3. At least one subject each quarter selected from those listed on pages 61-62.

During any one quarter of the sophomore year a student will not be allowed to carry more than four courses in addition to Physical Education and Military Science.

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### **JUNIOR AND SENIOR REGISTRATION**

Juniors and Seniors must carry at all times at least one subject selected from Group B until all requirements are completed.

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### **GENERAL STATEMENT OF MAXIMUM AND MINIMUM REGISTRATION**

Sixteen credits (in addition to required Physical Education and Military Science) is the usual maximum registration and 10 credits (in addition to required Physical Education and Military Science) is the minimum.

Students who during the previous quarter have received a total of 33 grade points and no grade of "E" or "F" may register for 18 credits (in addition to Physical Education and Military Science). Courses for which no credit is given toward a degree are assigned a rating for the operation of this rule.

Students wishing to enroll for more or less than the number of credits allowed by the above regulations must obtain the approval of their adviser and of the chairman of advisers.

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### **CREDIT FOR INDEPENDENT WORK**

Credit is allowed honor students of junior and senior standing for independent work in topics or problems chosen by themselves with the approval of the departments concerned and with the supervision of instructors. Such work must be registered for at the beginning of a quarter. The student cannot obtain a larger number of credits than he is registered for but a smaller number may be completed and credit obtained upon the instructor's approval.

# BIOLOGY

PROFESSOR, MORTON J. ELROD (Chairman). ASSOCIATE PROFESSOR, ROBERT T. YOUNG. INSTRUCTOR, LEONA BAUMGARTNER. ASSISTANT, M. J. HARBAUGH.

Students who do major work in Biology must take courses in the department to the extent of 45 or more credit hours, which must include Zoology 11abc, three credits in Biological Club, one subject from each of the groups following, and additional elective subjects: Group 1, Histology, 8 cr., Embryology, 10 cr.; Group 2, Physiology, 8 cr., Bacteriology, 10 cr., Protozoology, 5 cr.; Group 3, Eugenics, 3 cr., Evolution, 3 cr. In addition they must complete Botany 11 (2 Q.), Chemistry 11, and are advised to complete Geology 11. They must have a reading knowledge of French or German, or, preferably, of both.

The Department of Biology does not give Senior Examinations except to candidates for Honors.

See "Premedical Course" for suggested course for students preparing to study medicine.

See "Biological Station."

## For Undergraduates

**11abc. Elementary Zoology.** 3 Q. Autumn, winter, spring. 5 cr. each quarter. Students may enter course any quarter. Introduction to the study of animals, dealing with their anatomy, distribution, and habitats. Textbooks, lectures, library references, and laboratory work. Three lectures, including quiz, and six hours of laboratory each week. Field excursions. Attention to local fauna. Invertebrates are studied during the autumn and winter quarters, Vertebrates in the spring. Mr. Elrod, Mr. Young and assistants.

**12. Forest Zoology.** 1 Q. Winter. 5 cr. Open only to students in the School of Forestry. Intended to meet some of the problems of the forester in dealing with fish and game animals. Three lectures or recitations and six hours of laboratory each week. Mr. Elrod.

**13. Animal Ecology.** 1 Q. Spring. 5 cr. Prerequisite, Zoology, 11. Animals as affected by environment; adaptability of structure to modes of life. Lectures, laboratory, and field work. Special reference to local fauna. Mr. Elrod.

**16. Protozoology.** 1 Q. Spring. 5 cr. Prerequisite, Botany 11a, Zoology, 11a, or the equivalent. A study of the life histories of various protozoans, their structure, habits, reproduction, distribution; their relation to animals and man as producing diseases. Three lectures or recitations and six hours of laboratory each week. Mr. Stimpert.

**17. Entomology.** 1 Q. Spring. 5 cr. Prerequisite, Zoology 11 ab or 12. A study of insects, including their structure, classification, distribution, benefits and injuries, and their relation to animals and man through diseases. Three lectures or recitations and six hours of laboratory each week. Mr. Elrod.



**19a. General Bacteriology.** 1 Q. Autumn. Summer. 5 cr. Prerequisites, General Chemistry 11 and either Botany 11ab, Zoology 11ab, or Pharmacy 13. The course gives a general knowledge of the activities of bacteria and essential technique in laboratory methods. It emphasizes principles of sterilization, cultivation of bacteria, factors influencing the growth of bacteria, products of bacterial growth, general ideas of disease production and immunity, and bacteriology of soil, milk, water, and foods. Laboratory, lecture, and recitation. It will be especially serviceable to students preparing for medicine or technical work. Miss Baumgartner.

**19b. Pathogenic Bacteriology.** 1 Q. Winter. 5 cr. Prerequisite, Bacteriology 19a. A careful study of the characteristics, etiology, prophylaxis, and control of diseases caused by microorganisms. Laboratory work deals with various pathogenic types and methods of laboratory diagnosis of diseases. Lecture and recitation. Miss Baumgartner.

**21ab. Histology.** 2 Q. Autumn, winter. 4 cr. each quarter. Prerequisite, Zoology 11 ab. A knowledge of chemistry is essential. Preparation of animal tissues for microscopical examination; use of microscope and microtome; methods of fixation, sectioning and staining; a study of the tissues of the human body. Laboratory, lectures, textbook, and reading. Mr. Elrod.

**22ab. Embryology.** 2 Q. Winter, spring. 5 cr. each quarter. Prerequisite, Zoology 11ab. The course deals with the early development of animals, with special reference to the chick and pig. Three lectures and recitations and six hours of laboratory each week. Mr. Young.

**23. Comparative Anatomy.** 1 Q. Autumn. 5 cr. Prerequisite, Zoology 11 ab. Planned for students in Physical Education, and for those who wish to enter a medical school. A comparative study of organ systems in the higher vertebrates, as a basis for the interpretation of the mammal. Three lectures, recitations, or quizzes and six hours of laboratory each week. Mr. Young.

**24a. Physiology of the Human Body.** 1 Q. Autumn. 4 cr. Prerequisite, sophomore standing. A year of chemistry and a year of elementary botany or zoology are desirable in preparation. Planned to meet the requirements of teachers, students of Physical Education, Home Economics, Pharmacy, and those wishing a course of general information. A general summary of bodily activities, and the physiology of digestion, metabolism, excretion, and muscular action. Miss Baumgartner.

**24b. Physiology of the Human Body.** 1 Q. Winter. 4 cr. Prerequisite, same as 24a. This quarter covers the physiology of the nervous system, blood, circulation, respiration, reproduction, and endocrine glands. Miss Baumgartner.

**26. General Hygiene.** 1 Q. Spring. Summer. 3 cr. Open only to freshmen and sophomores. An informational course dealing with the subject as related to the individual, the community, and the state. The lectures and discussions relate to such subjects as bacterial and protozoan diseases, food, exercise, sleep, ventilation, drainage, disinfectants, and quarantine. Students entering this course will find an elementary knowledge of chemistry and zoology essential. Lectures, recitations and quizzes. Miss Baumgartner.

**For Undergraduates and Graduates**

**114. Eugenics.** 1 Q. Autumn. Summer. 3 cr. Open only to juniors and seniors. Prerequisite, Zoology 11 ab or Botany 11 ab. A discussion of the fundamental principles involved in the better development of man and animals. Lectures, textbooks, reports and library. Mr. Elrod.

**115. Evolution and Heredity.** 1 Q. Spring. 3 cr. Prerequisite, junior or senior standing and Zoology 11 ab or Botany 11 ab. Lectures and assigned readings. Deals with the facts supporting the doctrine of evolution, and the development of the theories of evolution since the time of Darwin; a discussion of the facts of heredity and their application. Mr. Young.

**118. Entomology, Advanced.** 1 to 4 Q. Autumn, winter, spring. Credit to be arranged. Prerequisite, Entomology 17. Intended for those who wish to make advanced study in insects. Individual work will predominate, the student taking special groups of insects or special insect problems. Mr. Elrod.

**120. Immunology.** 1 Q. Spring. 5 cr. Prerequisite, Bacteriology 19. General principles of immunity and laboratory work in serology, animal experimentation, and clinical diagnosis. Lectures, recitation, and laboratory. Miss Baumgartner.

**122. Histology, Advanced.** 1 Q. Spring. Credit to be arranged. Prerequisite, Histology, 21 ab. Special work and problems in tissue structure and pathology may be taken up by students individually. Mr. Elrod.

**129. Biological Club.** Autumn, winter, spring, 1 cr. each quarter. Prerequisite, Zoology 11 and junior standing. Three credits required of students majoring in Biology; open to others of approved ability. Reviews of current literature for the purpose of giving a comprehensive survey of the trend of thought and study in biological fields. Mr. Elrod, Mr. Young, Miss Baumgartner.

**131. Biological Problems.** 1 to 4 Q. Autumn, winter, spring, summer. Opportunity will be given graduate students and others of sufficient ability to pursue original investigations within the facilities of the department as to laboratories and material. Details will be arranged with individual students. Credit and time to be arranged. Mr. Elrod, Mr. Young, Miss Baumgartner.

**For Graduates**

**201. Research.** 1 to 4 Q. Autumn, winter, spring, summer. Credits variable. Courses for students will be outlined to meet individual needs and requirements. The Biological Station at Flathead Lake affords exceptional opportunity for investigations.

# BOTANY

PROFESSOR, J. E. KIRKWOOD (Chairman). ASSISTANT PROFESSORS  
J. W. SEVERY, CHARLES W. WATERS.

Students doing major work in Botany must take courses in the department sufficient to total at least 45 credits, the distribution to be determined upon consultation. In most cases the following courses are required: 11, 21, 22, 161 (10-15 cr.), and 171. The sequence of courses may be as follows: 11, 21, 22, 161, 141, 171; or 11, 161, 21, 22, 141, 171; or 11, 21, 22, 161, 165, 166, 171; or otherwise upon arrangement. Major students are required to take also Zoology 11 (2 quarters), and are advised to take Chemistry 11 and Geology 11. A reading knowledge of French or German (preferably both) is required.

The region is rich in opportunity for research in ecology, pathology, systematic botany, and other branches of the science. Opportunity is offered for graduate work in these subjects leading to the degree of Master of Science.

The Department of Botany does not give Senior Examinations except to candidates for Honors.

## For Undergraduates

**11abc. General Botany.** 1, 2 or 3 Q. Autumn, winter, spring. 5 cr. each quarter. Summer, 4 cr. No prerequisite. The course may be begun in any quarter. Botany 11a is repeated during the winter quarter. This course aims to present the subject of plant life in its best and broadest relations to human interests from various standpoints. It gives an introduction to the nature and work of plants and their classification. Field work, a feature in the spring quarter. Mr. Waters, Mr. Severy.

**14. Economic Botany.** 1 Q. Spring. 5 cr. Prerequisite, one quarter, preferably two, of General Botany or junior standing. Students taking required science may take the alternative of this course or Botany 11c in the final quarter of the year. The course embodies a treatment of plants from the standpoint of their uses and products; the geographic distribution, and the most important industrial applications of plants. It aims to give a large body of information on the importance of plant life in relation to human interests. Mr. Severy.

**21. Plant Histology.** 1 Q. Autumn. 5 cr. Prerequisite, Botany 11. A special study of the organs and tissue of plants from the physiological standpoint. Introduction to the methods of making microscopical slides and of general microtechnique. Mr. Severy.

**22. Plant Physiology.** 1 Q. Winter. 5 cr. Prerequisite, Botany 11. An experimental study of living plants, their behavior under controlled conditions, their reactions, growth, etc. Mr. Severy.

**23. Identification of Woods.** 1 Q. Autumn. 4 cr. Prerequisite, Botany 11 or equivalent. A study of the microscopic structure of the wood of important North American trees. Mr. Severy.

**25. Plant Variation and Heredity.** 1 Q. Spring. 3 cr. Prerequisite, Botany 11. A study of the laws of inheritance in the plant world as developed from scientific investigations. A brief historical treatment of the work of Lamarck, Mendel, Darwin, Weismann, De Vries and others. Mr. Severy.

**31. Forest Pathology.** 1 Q. Spring. 5 cr. Prerequisite, Botany 21 or 22. A study of the agencies of disease and decay of trees and structural timbers. Lectures, laboratory and field work. Mr. Waters.

**63. Dendrology.** 2 Q. Autumn, winter. Continuous. 8 cr. Prerequisite, Botany 11. A study of the classification and distribution of the principal forest trees of the United States and Canada. Mr. Kirkwood.

#### For Undergraduates and Graduates

**141ab. Comparative Morphology.** 2 Q. Winter, spring. 5 cr. each quarter. Prerequisite, Botany 21. Devoted especially to the study of the life-histories of typical plants of the larger natural groups. Given in alternate years with 165 and 166. Given in 1927-28. Mr. Kirkwood.

**151. Ecology.** 1 Q. Spring. 5 cr. Prerequisite, Botany 22. The relation of vegetation to natural environment; the factors controlling the distribution of plants locally and generally; plant geography. Lectures, laboratory and field work. Mr. Kirkwood.

**161. Systematic Botany.** 3 Q. Autumn, winter, spring. 5 cr. each quarter. Summer. 4 cr. Prerequisite, Botany 11. Classification of the flowering plants, especially of Montana. Field work in season. Instruction also in the methods of collecting, preserving and mounting plants. Mr. Kirkwood.

**165. Systematic Mycology.** 1 Q. Autumn. 5 cr. Prerequisite, Botany 11. A study of the classification and relationships of the fungi. Lectures, laboratory and field. This and course 166 given in alternate years with Botany 141ab. Given in 1928-29. Mr. Waters.

**166. Systematic Mycology.** 1 Q. Spring. 5 cr. Prerequisite, Botany 11. A study of the classification and relationships of the algae. Lectures, laboratory and field. This and course 165 given in alternate years with Botany 141ab. Given in 1928-29. Mr. Waters.

**171. Seminar in Botany.** 3 Q. Autumn, winter, spring. Continuous. 9 cr. Open only to senior major and graduate students in botany. Reviews of the current literature of botany; introduction to the journals and methods of research. Mr. Kirkwood.

**175. Botanical Theses.** 1 Q. Any quarter. 3 to 5 cr. Prerequisite, senior standing and 30 credits in Botany. Primarily for those seeking a Civil Service appointment requiring a botanical thesis. Mr. Kirkwood, Mr. Severy, Mr. Waters.

#### For Graduates

**201. Research.** Any quarter. Credits variable. Work on selected problems in the fields of Ecology, Pathology, Morphology and Physiology under direction. Correspondence is invited. Mr. Kirkwood, Mr. Severy, Mr. Waters.

# CHEMISTRY

PROFESSORS. W. G. BATEMAN, R. H. JESSE (Chairman). ASSOCIATE PROFESSOR, J. W. HOWARD.

Students who do major work in this department are required to have a minimum of 54 credits in Chemistry, which must include: General Chemistry, 15 credits; Qualitative Analysis, 10 credits; Quantitative Analysis, 7 to 10 credits; Organic Chemistry, 10 credits; Physical Chemistry, 10 credits. In addition a major student in Chemistry should have acquired by the time of his graduation a reading knowledge of French and German and a working knowledge of English Composition, College Physics, Algebra, Trigonometry, Analytic Geometry, Calculus, and Elementary Mineralogy.

The Department of Chemistry does not give Senior Examinations except to candidates for Honors.

## SUGGESTED CURRICULUM FOR MAJORS IN CHEMISTRY

### FRESHMAN YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Chemistry 11 or 13.....	5	5	5
English 11a or Language.....	5	5	5
Trigonometry or Restricted Elective (if Trigonometry taken in High School).....	.....	5	.....
Survey of College Mathematics.....	5	.....	.....
Analytic Geometry.....	.....	.....	5
Physical Education.....	1	1	1
Military Science.....	1	1	1
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	17	17	17

### SOPHOMORE YEAR

Chemistry 101.....	5	5	.....
Chemistry 15ab.....	5	5	.....
(Elective may be substituted for 15a. if student has taken Chemistry 13.)			
Chemistry 17.....	.....	.....	5
English 11b or Language.....	3-5	3-5	3-5
Physical Education.....	1	1	1
Military Science.....	1	1	1
Elective.....	.....	.....	5
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	15-17	15-17	15-17

### JUNIOR YEAR

Chemistry 113.....	1	1	1
History or Economics, or Philosophy or Literature.....	4-5	4-5	4-5
Chemistry 109.....	5	5	.....
Calculus.....	5	5	.....
Chemistry 110.....	.....	.....	5
Elective (suggested list):			
Chemistry 111.....	3	.....	2-4
Mineralogy.....	4	4	.....
Chemistry 103.....	.....	.....	5
Advanced Calculus.....	.....	.....	5
Bacteriology.....	5	5	.....
Any unfulfilled restrictive elective.....	.....	.....	.....
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	15-16	15-16	13-16

## SENIOR YEAR

Chemistry 113 .....	1	1	....
Chemistry 106 .....	5	5	....
Physics 20abc .....	5	5	....
Philosophy or Literature, or History or Economics	4-5	....	....
Elective .....	....	5	11
Suggested List: Chemistry 103, Chemistry 107, Chemistry 108, Chemistry 200, Advanced Physics, Geology, Additional Language.			
	15-16	16	16

## For Undergraduates

**11. General Chemistry.** 3 Q. Autumn, winter, spring. Continuous. 15 cr. The fundamental laws of chemistry; the properties and relations of the more common elements and of their compounds. Students who during the first quarter show unusual progress may be promoted to Chemistry 13 without the usual prerequisite of high school chemistry. Mr. Jesse, Mr. Howard, and assistants.

**13. Inorganic Chemistry and Qualitative Analysis.** 3 Q. Autumn, winter, spring. Continuous. 15 cr. Prerequisite, one year of chemistry in high school. The fundamental laws of chemistry; the properties and relations of the non-metallic and metallic elements; theory and methods of inorganic qualitative analysis. Students who are deficient may be dropped at any time, at the judgment of the instructor, into Chemistry 11. Students who have completed Chemistry 11abc may register for Chemistry 13c. Mr. Bateman.

**15a. Qualitative Analysis.** 1 Q. Autumn. 5 cr. Prerequisite, Chemistry 11. The theory of, and the methods for the detection and separation of the principal inorganic basic and acidic ions. Mr. Bateman.

**15b. Qualitative Analysis.** 1 Q. Winter. 5 cr. Prerequisite, Chemistry 13 or 15a. A continuation of course 15a. Mr. Bateman.

**17. Quantitative Analysis.** 1 Q. Spring. 5 cr. Prerequisite, Chemistry 13 or 15a. Introduction to quantitative gravimetric and volumetric methods. Mr. Jesse.

**19. Organic Chemistry.** 1 Q. Winter. 5 cr. Prerequisite, Chemistry 11 or 13. Briefer survey of the field of organic chemistry. Intended for students of Pharmacy and Home Economics. Mr. Howard.

## For Undergraduates and Graduates

**101. The Carbon Compounds.** 2 Q. Autumn, winter. Continuous. 10 cr. Prerequisite, Chemistry 11 or 13. A detailed and systematic study of organic chemistry. Intended for students who elect chemistry as a major and for premedical students. Mr. Howard.

**102. Organic Qualitative Analysis.** 1 Q. Spring. 2 cr. Prerequisite, Chemistry 101. Systematic methods of identification of pure organic compounds and mixtures; general class reaction of organic chemistry. Mr. Howard.

**103. Physiological Chemistry.** 1 Q. Spring. 5 or 6 cr. Prerequisite, Chemistry 19; or Chemistry 101. Chemistry of the human body; blood, bile, urine, feces, milk, etc. Mr. Bateman.

**105. Textile Chemistry.** 1 Q. Spring. 3 cr. Prerequisite, Chemistry 19 or 101. Microscopic study of textile fibers; chemical analysis of fabrics; dyeing and laundering. Given in 1927-28 and in alternate years. Mr. Bateman.

**106. Physical Chemistry.** 2 Q. Autumn, winter. Continuous. 10 cr. Prerequisite, Chemistry 17, 101, and enrollment in college physics. A knowledge of calculus is very desirable. The more important methods, results, and problems of theoretical chemistry. Mr. Jesse.

**107. History of Chemical Theories.** 1 Q. Spring. 5 cr. Prerequisite, Chemistry 101, and a reading knowledge of German. Present status and value of chemical theories through an examination of their origin and development. Mr. Bateman, Mr. Jesse, Mr. Howard.

**108. Electrochemistry.** 1 Q. Spring. 3 cr. Prerequisite, Chemistry 106. Lectures on theoretical and applied electrochemistry. Mr. Jesse.

**109. Inorganic Industrial Chemistry.** 1 Q. Winter. 5 cr. Prerequisite, Chemistry 17 and 101. The chemistry of industrial and engineering materials and the discussion of technical chemical processes. Mr. Howard.

**110. Organic Industrial Chemistry.** 1 Q. Spring. 5 cr. Prerequisite, Chemistry 13 or 15a and Chemistry 101. Mr. Howard.

**111. Technical Analysis.** 1 Q. Autumn. Winter. Spring. 2 to 4 cr. Course may be taken during two succeeding quarters for not more than total of 4 credits. Prerequisite, Chemistry 17. Analysis of various materials of commercial importance. The work is varied according to the needs and tastes of the individual. Mr. Jesse or Mr. Howard.

**113abc. Journal Club.** 3 Q. Autumn, winter, spring. 1 cr. each quarter. Prerequisite, Chemistry 17, 101, and a reading knowledge of German and French. Students may enter the course any quarter. Presentation and discussion of current journal literature by upper classmen and the departmental staff. This course may again be elected for credit in a following year. Mr. Jesse, Mr. Bateman, Mr. Howard.

### For Graduates

**200. Advanced Courses and Research.** The department is prepared to arrange for properly qualified students advanced and research courses in: inorganic, analytic, organic, physical, or industrial chemistry and in biochemistry.

The following course will be given in the 1927 Summer Session:

**S5. Principles of Physical Science.** Second term (three weeks). 1½ cr. Modern views of chemical constitution and chemical reaction. The reactions principally of ionogens, ionization, metathesis, electrolysis, hydrolysis, oxidation and reduction, equilibrium, and energy relations, Radioactivity. Colloids. The illustrative material will be chosen as far as possible from everyday life and familiar industry. Mr. Jesse.

# ECONOMICS AND SOCIOLOGY

PROFESSOR, SHIRLEY J. COON (Chairman). ACTING PROFESSOR, JOHN R. HAHN. ASSOCIATE PROFESSOR, CLYDE E. BURGEE (on leave). ASSISTANT PROFESSORS, CALVIN CRUMBAKER, CLOICE R. HOWD, CLAUDE STIMSON, O. TONNING. INSTRUCTOR, VIRGINIA DIXON (on leave).

Students who elect major work in Economics or Sociology are required to complete at least 45 credits in this department. The following courses, described under the School of Business Administration, will be accepted toward a major in this department: Economic History of the United States, Corporation Finance, Marketing, Foreign Trade, and Investments. For description, see School of Business Administration. The following schedule of courses should be observed:

## FIRST YEAR

Fall	Winter	Spring
Lang. or Science..... 5	Lang. or Science..... 5	Lang. or Science..... 5
Pol. & Ec. Prog..... 5	Pol. & Ec. Prog..... 5	Pol. & Ec. Prog..... 5
English 11a..... 5	Engl. 20a or 30.....5 or 4	Engl. 20b or 30.....5 or 4
Physical Educ..... 1	Physical Educ..... 1	Physical Educ..... 1
Military Science..... 1	Military Science..... 1	Military Science..... 1
17	16-17	16-17

## SECOND YEAR

History 17..... 4	Hist. 18 or 21b..... 4	History 21c..... 4
Prin. of Econ..... 4	Prin. of Econ..... 4	Statistics..... 4
Psychology..... 4	Psychology..... 4	Social Psychology..... 4
Elective..... 4	English 11b..... 3	Elective..... 4
Physical Educ..... 1	Physical Educ..... 1	Physical Educ..... 1
Military Science..... 1	Military Science..... 1	Military Science..... 1
18	17	18

Students selecting Economics as their major will observe the following schedule in their Junior and Senior years:

## JUNIOR YEAR

Money & Banking.... 3	Money & Banking.... 3	Exchange..... 3
Corp. Finance..... 4	Public Finance..... 3	Public Finance..... 3
Cooperat. Move.... 3	Ad. Econ. Theory... 3	Prop. & Dist..... 3
Elective..... 6	Elective..... 6	Elective..... 6
16	15	15

## SENIOR YEAR

Labor Problems..... 3	Mod. Trust Move.... 3	Mod. Trust Move.... 3
Transportation..... 4	Soc. Theories..... 3	Social Progress..... 3
Ec. & Soc. Prob.... 3	Ec. & Soc. Prob.... 3	Foreign Trade..... 4
Elective..... 6	Elective..... 6	Elective..... 6
16	15	16

Students selecting Sociology as their major will observe the following schedule in their Junior and Senior years:

## JUNIOR YEAR

Sociology..... 4	Sociology..... 4	Social Order..... 4
Cooperat. Move.... 3	Ad. Econ. Theory... 3	Prop. & Dist..... 3
Philos. 52..... 3	Philos. 53..... 3	Abnormal Psych.... 5
Elective..... 6	Elective..... 6	Elective..... 4
13	16	16



## SENIOR YEAR

Labor Problems.....	3	Social Theories.....	3	Social Progress.....	3
Ec. & Soc. Prob.....	3	Ec. & Soc. Prob.....	3	Ethics .....	5
Elective .....	9	Elective .....	9	Elective .....	8
	<hr/>		<hr/>		<hr/>
	15		15		16

The department does not give senior examinations except to candidates for Honors. In calculating credits for prerequisites, Economics 11abc does not count.

## ECONOMICS

## For Freshmen

**11a. Political and Economic Progress.** 1 Q. Autumn. 5 cr. Open to freshmen only. Topical review of the political, economic, and religious bases of modern civilization from the fall of the Roman Empire to the age of Louis XIV. Mr. Tanning.

**11b. Political and Economic Progress.** 1 Q. Winter. 5 cr. Open to freshmen only. The rise of modern political, economic, and social problems from the age of Louis XIV to the end of the industrial revolution. Mr. Tanning.

**11c. Political and Economic Progress.** 1 Q. Spring. 5 cr. Open to freshmen only. The development of political, economic, and social problems since the industrial revolution. Mr. Tanning.

## ECONOMICS AND SOCIOLOGY

**13. Survey of Economics.** 1 Q. Autumn. Spring. 5 cr. Prerequisite, sophomore standing. This course is designed for majors in departments or schools, other than Economics and Business Administration, where a study of economic principles from the standpoint of citizenship is desired. May be substituted for 14a Economics as a prerequisite for Economics 14b, but may not be counted toward a major in Business Administration or Economics. Mr. Crumbaker.

**14ab. Principles of Economics.** 2 Q. Autumn, winter. Winter, spring, continuous. 8 cr. First quarter of course given in summer. Prerequisite, sophomore standing. Mr. Coon, Mr. Crumbaker, Mr. Howd, Mr. Stimson.

**6lab. Introduction to Sociology.** 2 Q. Autumn, winter. Summer. 4 cr. each quarter. Prerequisite, junior standing, and Social Psychology 14 required of sociology majors. Social interests; social activities. Mr. Hahn.

**101ab. Money and Banking.** 2 Q. Autumn, winter. 3 cr. each quarter. Prerequisite, Economics 14ab. Theory and history of money, banking theory, practice, and legislation. Mr. Howd.

**103. Exchange.** 1 Q. Spring. 3 cr. Prerequisite, Economics 101ab. The institutions, rates, and machinery of domestic and foreign exchange; international banking and foreign exchange problems. Mr. Howd.

**107ab. Modern Trust Movement.** 2 Q. Winter, spring. 3 cr. each quarter. Prerequisite, Economics 14ab and Business Administration 133. History, character, and consequences of modern trusts. The trust problem and proposed solutions. Given in 1927-1928 and in alternate years. Mr. Burgee.

**11lab. Public Finance.** 2 Q. Winter, spring. 3 cr. each quarter. Prerequisite, Economics 14ab and Business Administration 133. The expenditures, revenues, credit, and taxation policies of the body politic. Given in 1926-1927, and in alternate years. Mr. Howd.

**127. Railway Transportation.** 1 Q. Autumn. 4 cr. Prerequisite, 20 cr. in Business Administration and Economics, including 14ab. History of railroad transportation; development of systems; theory and problems of rate making, classification, and routing; discriminations; state and federal legislation; decisions of courts and commissions; regulation versus government ownership and operation. Mr. Crumbaker.

**129. Public Utilities.** 1 Q. Winter. 3 cr. Prerequisite, Business Administration 133. The essentials of a good franchise; problems of particular utilities; rate structure; methods of social control. Given in 1927-28, and in alternate years. Mr. Crumbaker.

**131. Labor Problems.** 1 Q. Autumn. 3 cr. Prerequisite, 20 credits in Business Administration and Economics, including 14ab. General survey of the main forces and factors which give rise to modern labor conditions; poverty; child labor; unemployment; wages; hours of work; distribution of income; social progress; the philosophy, policies, and methods of organized labor; labor legislation; arbitration; and social insurance. Mr. Coon.

**151. Advanced Economic Theory.** 1 Q. Winter. 3 cr. Prerequisite, 20 credits in Economics, or 14ab, junior standing, and consent of instructor. A history and analysis of economic theories, introducing the classical, historical, Austrian, and socialistic schools. Mr. Coon.

**162. Social Order.** 1 Q. Spring. 4 cr. Prerequisite, Economics 61ab. Social control. Mr. Hahn.

**163. Social Progress.** 1 Q. Spring. 3 cr. Prerequisite, Sociology 61ab. Changes in society through war, struggle, invention, education, art. Mr. Hahn.

**171. Property and Distribution.** 1 Q. Spring. 3 cr. Prerequisite, Economics 151, or 20 credits in Economics and consent of the instructor. Application of economic principles to the study of the property system; the distribution of incomes and property to the various members and classes of society. Mr. Hahn.

**173. Cooperative Movements.** 1 Q. Autumn. 3 cr. Prerequisite, Economics 14ab, and junior standing. Contemporary organizations of labor, capital, or the state, for the cooperative production and distribution of goods; cooperation in credit. Mr. Hahn.

**175. Social Theories.** 1 Q. Winter. 3 cr. Prerequisite, Economics 14ab, and either Economics 171 or 173. The examination of proposals for social reorganization in the light of economics and sociology. Mr. Hahn.

**181lab. Economic and Social Problems.** 2 Q. Autumn, winter. 3 cr. each quarter. Prerequisite, 27 credits in Economics and Business Administration. Students may enter either quarter. Researches in the application of economic science to contemporary political and social problems. Mr. Hahn.

# EDUCATION

PROFESSORS, FREEMAN DAUGHTERS (Chairman on leave), W. E. MADDOCK (Acting Chairman). ASSISTANT PROFESSOR, W. R. AMES. INSTRUCTOR, LEORA HAPNER.

Students preparing for the work of administration or supervision in public schools, or for teaching professional subjects, should do major work in Education. Those desiring to become teachers of particular subjects, either in the junior or senior high school, should specialize in the subjects to be taught. Courses required for the Certificate of Qualification to Teach are marked with a star (\*), but one additional four credit course must be taken. Major students in Education are required to take courses 134, 150ab, 152, 156, 158 and 154 or 162, or their equivalents, in addition to the courses required for the Certificate. Adjustments may be made to meet extraordinary needs.

The Department of Education will not give Senior Examinations in 1927-28 except to candidates for Honors.

A course in General Psychology, carrying a minimum of four credits, is prerequisite to all courses in Education except courses 30 and 166. The prerequisites for particular courses may be relaxed in the summer quarter for teachers of maturity and wide experience, but the standard of work will in no case be relaxed. Courses numbered between 100 and 200 may carry graduate credit, but only when arrangements shall have been made with the department in advance.

Students desiring the University Certificate of Qualification to Teach are warned against neglecting the prerequisite courses until the senior year. General Psychology should be taken in the sophomore year, and two or three courses in Education should be taken in the junior year. Educational Psychology should be taken in the autumn quarter of the junior year or in the spring quarter of the sophomore year.

## For Undergraduates

**14. History of Education.** 1 Q. Summer. 4 cr. Prerequisite, General Psychology. Open to regular students of junior standing and to teachers of maturity and experience.

**\*18. Principles of Education.** 1 Q. Autumn. Spring. 3 cr. Summer. 4 cr. Education 19 is prerequisite unless 18 and 19 are taken simultaneously in the junior or senior year. Mr. Ames.

**\*19. Educational Psychology.** 1 Q. Autumn. Spring. Summer. 4 cr. Prerequisite, General Psychology and sophomore standing. Mr. Ames.

**\*22. The High School.** 1 Q. Autumn. Spring. Summer. 4 cr. Prerequisite, senior standing and 6 credits in Education. The history, organization, management, and problems of the high school. Miss Hapner.

**\*26. Observation and Teaching.** 1 Q. Autumn. Winter. Spring. 5 cr. Education 22 is prerequisite or must be taken simultaneously. Amount of credit allowed toward degree depends upon the amount of work done under standardized conditions. In other cases part-time work, experience and observation may meet certificate requirements only. For the year 1927-28 not more than 35 students will be registered in any one quarter. Reservations for a place in this course should be made in the spring quarter of the junior year to prevent congestion in any one quarter. If there are more than can be accommodated in any one quarter, those who made no reservations will not be permitted to take the work. Work consists of observation of class-room teaching; conferences; preparation of lesson plans; and teaching under supervision of critic teachers and staff of the Educational Department. The work is carried on in cooperation with the Missoula County High School and the Missoula City Schools. Mr. Maddock and Miss Hapner.

**\*30. School Hygiene.** 1 Q. Winter. Summer. 3 cr. Prerequisite, junior standing. The hygienic aspects of school architecture and equipment, of instruction, and of the physical and mental life of the school child. Miss Hapner.

#### For Undergraduates and Graduates

**134. School Supervision.** 1 Q. Autumn. Summer. 4 cr. Prerequisite, Education 19. Instruction—its quality, technique, rating, and improvement; discipline, supervised study and other problems bearing upon the instructional side of school work. Mr. Maddock.

**150ab. Educational Administration.** 2 Q. Winter, spring. Summer. 3 cr. each quarter, except in summer, when course is condensed and carries 4 cr. Prerequisite, 6 credits in Education. 150a covers the field of city school organization and administration and 150b covers the field of federal, state, county, and rural school organization and administration. There is no necessary sequence to the two quarters' work and it is immaterial which is taken first. Designed for graduate and advanced students. Mr. Maddock.

**152. Educational Measurements.** 1 Q. Winter. Summer. 4 cr. Open to advanced and graduate students. Prerequisite, Education 19. Statistical methods. Development and use of scales, and measurement of educational products. Mr. Ames.

**154. Seminar in Education.** 1 Q. Autumn. Spring. Summer. Credit and time to be arranged. Designed for advanced and graduate students of Education. Original investigations carried on under the supervision of the staff of the Department of Education. Mr. Maddock.

**156. School Finances.** 1 Q. Winter or spring. Prerequisite, senior standing, or 12 credits in Education and experience as a principal or superintendent. History and sources of school revenue. Funds, relative costs, inequalities, legal limitations and proper expenditures. Comparative study of finances in surveys, reports and bulletins. Mr. Ames, Mr. Maddock.

**158. Educational Sociology.** 1 Q. Spring. Summer. 4 cr. Prerequisite, General Psychology and junior standing. The social aspects of education, the relation of the school to society, institutional adjustment and change, and the social objectives of the curriculum. Miss Hapner.

**162. Problems in Elementary Education.** 1 Q. Autumn. Summer. 4 cr. Prerequisite, General Psychology and junior standing.

The elementary school, its history, organization, management, curriculum, types of teaching; its special problems; the kindergarten and other features with which supervisors should be acquainted. Mr. Maddock.

**166. History of American Education.** 1 Q. Winter. Summer. 4 cr. Open to graduate and advanced students. Mr. Maddock.

#### For Graduates

**270abc. Educational Psychology.** 3 Q. Autumn, winter, spring. 3 cr. each quarter. Prerequisite, Education 19. This is an advanced course and will cover a wide range of literature, much of it technical, in the field of Educational Psychology. Given in 1928-29. Mr. Daughters.

**275abc. History of Education.** 3 Q. Autumn, winter, spring. 4 cr. each quarter. Prerequisite, either Education 14 or 166, or their equivalent. The history of education with emphasis upon sources. All the greater educational classics will be studied intensively and reviewed by the student. Mr. Daughters.

**280. Seminar in Administrative Problems.** 1 Q. Spring. Credit to be arranged. Prerequisite, Education 150ab, or its equivalent. Intensive study of administrative problems; original research. Mr. Maddock.

#### The following courses are given in the summer quarter only:

**S12. School Law.** 1 Q. Summer. 1½ cr. Certificate credit to students meeting State and University regulations.

**S20. School Management.** 1 Q. Summer. 2½ cr. Certificate credit to students meeting State and University regulations.

**S42. Schools for Individuals.** 1 Q. Summer (six weeks). 2½ cr. Educational methods dealing with directed study, moral training, civic responsibility, adaptation of teaching to individual differences, Dalton and Winnetka plans, pupil directed athletics, and pupils' economic and social activities.

**S43. Extra Curricular Activities.** 1 Q. Summer (three weeks). 1 cr. Open to all students. Discussion of the problem of extra curricular activities in the high school.

**S45. Educational Statistical Methods.** 1 Q. Summer. 4 cr. A demonstration and working course in statistical methods. The determination and evaluation of measures of central tendency, dispersion, precision, reliability and differences between means and between distributions; seriation and plotting; curve fitting; correlation.

# ENGLISH

PROFESSORS, FRANCES CORBIN, HAROLD G. MERRIAM (Chairman).  
ASSOCIATE PROFESSORS, EDMUND L. FREEMAN, LUCIA B. MIRRIELES.  
ASSISTANT PROFESSORS, BRASSIL FITZGERALD, CARL GLICK. INSTRUCTORS,  
N. B. BECK, EUGENE FINCH. ASSISTANT, MRS. WINIFRED MUCKLER.

Students who do major work in the department are required to take a minimum of 45 hours in addition to 11ab. Courses 30, 57a or b, 58ab, 193abc, and 199 are required of all major students. Courses 30, 57a or b, and 58ab should be taken in the sophomore year. Those students who desire also to secure a teacher's certificate must take in addition courses 190a and 190b.

All students whose major work is in English are advised to take at least two years in a foreign language, and two quarters of work in each of the subjects: history, psychology, and sociology; and a year's work in the physical sciences. The course, Greek Literature in English, is recommended.

Students who do minor work in English will not be recommended for teaching unless they have, in addition to English 11a, twenty-five credits in English including 190a or 190b and at least 12 credits from among courses 20ab, 30, 57ab, 58ab, and 59ab. Both 190a and 190b are advised.

Senior examinations must be taken by all students who take their major work in English. (See pages 31-32.)

Credits for courses under the division of Literature count toward an English "major."

Courses open to freshmen are numbered 10-29; to sophomores, 30-59; to juniors and seniors, 60-89; to seniors only, 90-99; and to both undergraduates and graduates, 100-199; to graduates only, 200-299.

## Composition

**11a. Freshman Composition.** 1 Q. Autumn. Winter. Spring. 5 cr. Summer, 4 cr. Required of all students in the freshman year. A study of the development of personal ideas and the gathering and organization of material for the writing of papers. Study of words and syntax. The English staff.

**11b. Freshman Composition.** 1 Q. Autumn. Winter. Spring. 3 cr. (This course carries 4 cr. for premedical students.) To be taken in the sophomore year. The English staff.

**30. Composition.** 1 Q. Autumn. Winter. Spring. 4 cr. Required of students who do major work in English. Open to freshmen who have made a grade of A or B in 11a, to sophomores who have been exempted from 11b, and to any student who has completed 11ab successfully. A study of exposition. On an average two essays a week will be written. Mr. Freeman.

**32. Story Writing.** 2 Q. Winter, spring. Continuous. 4 cr. Summer, 3 cr. Open to sophomores after consultation with the instructor. Before electing this course a student should take English 30. Practice in writing narrative, and study of representative short stories. Mr. Glick.

**72abc. Literary Composition.** 3 Q. Autumn, winter, spring. 1 or 2 cr. each quarter. Open to juniors and seniors. Prerequisite, English 30 or 32, or consent of the instructor on the basis of submitted writings. The writing of prose and verse—essays, stories, plays, poems—with artistic standards in view. Students choose the type of writing they wish to attempt, and the class meets in groups accordingly. The best student in each group will be appointed an assistant editor of *The Frontier*, University literary magazine. Mr. Fitzgerald, Mr. Freeman, Mr. Merriam, Mr. Glick.

**160abc. Creative Writing.** 3 Q. Autumn, winter, spring. 1 to 3 cr. each quarter. Prerequisite, junior standing and any two of the English courses 30, 32, or 72, or consent of the instructor on the basis of submitted writings. Practice in writing, with counsel in literary conception and execution. Mr. Merriam.

### Public Speaking

**20a. Principles of Speech.** 1 Q. Autumn. Spring. 5 cr. Summer, 4 cr. Open to freshmen. This is a course in general speech education. Special emphasis is placed upon distinct utterance, thinking and speaking in the presence of others, and effective oral expression in ordinary social and business relationships. Mr. Beck.

**20b. Public Speaking.** 1 Q. Winter. 3 cr. Prerequisite, English 20a, or a high school course in public speaking. A course for those who wish training in effective methods of adapting composition and delivery to various types of audiences. Special emphasis is placed upon the psychological factors in speech that influence human conduct. Critiques of representative public addresses are required during the quarter. Every student prepares and delivers two formal addresses. Mr. Beck.

**21. Argumentation.** 1 Q. Autumn. Spring. 5 cr. each quarter. Open to freshmen. English 11a and 20a are recommended as preparation for this course. Enrollment limited to 20. The course involves study of formal argumentation; laws of evidence, proof, and brief-drawing. Investigations, followed by submission of statement of fact. Critical study with practice in principles of argumentation and debate. First half of the quarter is given to the study of technique, second half to application of principles through practice debate. Mr. Beck.

**23. Voice Training.** 3 Q. Autumn, winter, spring. Continuous. 6 cr. Open to freshmen. Prospective teachers of English should take this work; recommended for students interested in dramatics. Correct handling of the voice. Exercises in reading aloud. Mr. Glick.

**53. Public Discussion and Debate.** 1 Q. Winter. 3 cr. Prerequisite, English 20a and 21, or membership in the University debating squad. Open to sophomores, juniors, and seniors, and to freshmen who make a grade of A or B in the prerequisite courses. Strictly a speaking course; class discussion and debate upon questions of public and present-day interest. Impromptu and extempore discussion, and formal debate. Mr. Beck.

**S121. Argumentation and High School Debate.** 1 Q. Summer. 4 cr. Especially for high school coaches of debate; open to them, to

seniors who have taken a course in argumentation or have engaged in university debating, and to others only with the consent of the instructor. May be taken

- (a) as Argumentation for 2½ cr.;
- (b) as High School Debate for 1½ cr.;
- (c) as both for 4 cr.

In (a) theory of argumentation will occupy the first six weeks, and practice in application the last three weeks. In (b) there will be a round-table discussion of problems met in high school coaching, and testing of evidence, finding the material, marshalling of argument. Mr. Beck.

**40. Story Telling.** 1 Q. Spring. 2 cr. Open to sophomores. Study and practice of effective telling of stories to children. Story telling as a community influence.

**62. Dramatic Presentation.** 3 Q. Autumn, winter, spring. Continuous. 3 cr. Enrollment limited to 20. Before election the student should consult with the instructor. Study of the staging of plays. Mr. Glick.

**S63. Stagecraft.** 1 Q. Summer. 2½ cr. Open to juniors and seniors, and to others only with consent of the instructor. The making of model stages, dyeing, papier-mache making of trees masks, etc., stenciling, tapestry painting, and the making of miscellaneous properties and devices for productions.

**S64. Play Production.** 1 Q. Summer. 4 cr. Open to juniors and seniors, and to others only with consent of the instructor. The approach and determinate factors of scene designing. Color and its application to the stage. The principles of design. Interior decoration. Lighting. Costume designing and making. Make-up. Complete note and prompt book for the production of a one-act play will be required of all.

**S65. Play Directing.** 1 Q. Summer. 2½ cr. Open to juniors and seniors, and to others only with consent of the instructor. A study of the types of production, theory and practice. Stage technique. Theory of design, composition and grouping in the interpretation of drama through position. A study of tempo, atmosphere and climax. Special study of the acting and producing of farce and comedy, of mass productions and of historical plays. Students required to produce plays.

### English Language and Literature

**S29. Lectures.** 1 Q. Summer. 1 cr. Open to all students. The English staff.

**55. The English Bible.** 1 Q. Spring. 4 cr. Open to sophomores. Literary types; qualities of thought, feeling, and style; careful study of certain selected books. Miss Corbin.

**56. Social Thought of Literary Men.** 1 Q. Winter. 4 cr. Open to sophomores. A study of the reaction of several eminent literary men, past and present, to the social problems and ideals of their own day. Mr. Freeman.

**57a. Shakespeare.** 1 Q. Autumn. Spring. 5 cr. Open to sophomores. A chronological study of the plays of Shakespeare. Mr. Finch.

**57b. Shakespeare.** 1 Q. Winter. 5 cr. Open to sophomores. An intensive study of two or three plays. Mr. Finch.



**58a. General Literature.** 1 Q. Autumn. Winter. Summer. 4 cr. Open to sophomores. Combined with 58b in the summer. This course and 58b study the aims and values of literature, and of the various literary types. 58ab is a course fundamental to later courses in periods and particular forms. Mr. Freeman, Mr. Merriam.

**58b. General Literature.** 1 Q. Winter. Spring. 4 cr. Prerequisite, English 58a. Mr. Freeman, Mr. Merriam.

**59a. American Literature.** 1 Q. Autumn. 5 cr. Summer. 4 cr. Open to sophomores. Combined with 59b in the summer. This course and 59b study American thought and feeling as reflected in our literature. Special attention is paid to the greater writers of the nineteenth century; Emerson, Hawthorne, Poe, and Whitman. Miss Corbin.

**59b. American Literature.** 1 Q. Winter. 5 cr. Open to sophomores. (See statement under English 59a). Miss Corbin.

**73. Spirit of the Renaissance in English Literature.** 1 Q. Winter. 4 cr. Open to juniors and seniors. Prerequisites, English 57a or 57b and English 58ab, English 165, and History 13a are recommended. Study of the new learning and new feeling as expressed in the poetry of Wyatt, Surrey, Spenser, and Sidney. The educational ideal and ethical function of literature as expressed in the prose fiction of the period. Representative drama exclusive of Shakespeare. The exploration and adventure, the literature of travel, the song books, the libraries, the universities. Given in 1926-27, and in alternate years. Miss Mirrielees.

**74. Literary Tendencies in the Seventeenth Century.** 1 Q. Spring. 4 cr. Open to juniors and seniors. Prerequisite, English 73 or History 13a; English 58ab is recommended. Cavalier lyrics; religious poets; Bacon; Milton; Bunyan; Dryden. Given in 1926-27, and in alternate years. Mr. Freeman.

**75. English Novelists.** 1 Q. Winter. 4 cr. Open to juniors and seniors. Prerequisite, English 58ab, or one year of history, or one year of sociology. A course designed to develop a sense of prose style, some critical standards for fiction, and an intelligent interest in and sympathy with all sorts of people, by the reading and discussion of novels by Fielding, Austen, Thackeray, Eliot, and Trollope. Given in 1926-27, and in alternate years. Mr. Fitzgerald.

**78a. Contemporary American Literature.** 1 Q. Spring. 4 cr. Combined with 78b in summer. 4 cr. Open to juniors. Students should have taken courses in literature before election of this course. English 59ab recommended. Study of older and newer currents of thought, feeling, and expression, in the American literary writing of today. Given in 1927-28, and in alternate years. Mr. Merriam.

**78b. Contemporary British Literature.** 1 Q. Spring. 4 cr. Combined with 78a in summer. 4 cr. Open to juniors. Before election of this course students should have taken other courses in literature. English 58ab recommended. Study of older and newer currents of thought, feeling and expression in the British literary writing of today. Given in 1926-27, and in alternate years. Mr. Merriam.

**80. Literary Thought of the Eighteenth Century.** 1 Q. Autumn. 4 cr. Open to juniors and seniors. Prerequisite, English 58ab, or English 74, or History 13b. Johnson and his circle; the verse and prose writers; beginnings of the romantic movement. Given in 1927-28, and in alternate years. Miss Mirrielees.

**81. Chief Romantic Poets.** 1 Q. Winter. 4 cr. Open to juniors and seniors. Prerequisite, English 58ab, or English 80, or History 13b. Study of the poetry of Shelley, Keats, Byron, and others, with emphasis on the poetry of Wordsworth. Given in 1927-28, and in alternate years. Miss Corbin.

**82. Tennyson and Browning.** 1 Q. Spring. 4 cr. Open to juniors and seniors. Prerequisite, English 58ab, or English 81. Given in 1927-28, and in alternate years. Miss Corbin.

**164. Chaucer.** 1 Q. Winter. 4 cr. Open to juniors, seniors and graduates. Prerequisite, any two quarters of sophomore or junior courses in literature. English 165 and 187 are recommended to precede this course. Reading, for understanding and appreciation, of much of Chaucer's work. Study of political, religious, social, and literary background; Chaucer's versification; his understanding of human nature. Given in 1927-28, and in alternate years. Miss Mirrielees.

**165. Middle English Literature.** 1 Q. Autumn. 4 cr. Open to juniors, seniors, and graduates. Prerequisite, English 58ab, and either English 57a or 57b; English 187, and History 13a are recommended to precede this course. Brief survey of metrical romances; consideration of the beginnings of English literary prose; "Travels of Sir John Mandeville"; Wycliff; Caxton; "Piers Plowman"; social and political verse; religious drama. Given in 1926-27, and in alternate years. Miss Mirrielees.

**S183. British Literature of the Late Nineteenth Century.** 1 Q. Summer. 2 cr. Open to juniors, seniors, and graduates. Currents of expression from about 1870 to the present day. Mr. Merriam.

**187. History of the English Language.** 1 Q. Winter. 3 cr. Open to juniors, seniors, and graduates. Prerequisite, four quarters of literature. Consideration of the growth of English language, and the development of modern English grammar and syntax. Given in 1926-27, and in alternate years. Miss Mirrielees.

**190a. The Teaching of Composition.** 1 Q. Winter. 3 cr. Combined with 190b in summer. 4 cr. Open to seniors and graduates. Prerequisite, fifteen hours in English and Literature, or consent of the instructor. Required of prospective teachers of English; recommended for those offering English as a minor teaching subject. Methods of teaching composition in high school. Miss Mirrielees.

**190b. The Teaching of Literature.** 1 Q. Spring. 3 cr. Combined with 190a in summer. 4 cr. Open to seniors and graduates. Required of prospective teachers of English; recommended for students offering English as a minor teaching subject. Methods of teaching literature in high school. Miss Mirrielees.

**191. Mechanics of Writing for Prospective Teachers.** 1 Q. Autumn. 1 cr. Open to seniors who expect to earn the teacher's certificate. A rapid review of the mechanics of writing that are demanded of a high school teacher in the correction of papers, reports, examinations. A study of high school standards of expression. Miss Mirrielees.

**192. Studies in Major Writers.** 1 Q. Autumn. 3 cr. May be elected only by seniors and graduates with the consent of the instructor. The subject and the instructor change from year to year. For 1925-26, Mark Twain. Mr. Freeman. Not given in 1926-27 unless by special arrangement with Mr. Merriam. 1927-28, Miss Mirrielees.

**193a. Philosophical and Religious Currents of the Nineteenth Century.** 1 Q. Autumn. 3 cr. Open to seniors and graduates only. Required of English majors. Prerequisite, two quarters of English literature, preferably 58ab or two quarters of either English history or of sociology. Intention is to gain by readings from some of the best books of the century acquaintance with the changing and varying spiritual attitudes preceding and affecting those of our own generation. Mr. Freeman.

**193b. Aesthetic Currents of the Nineteenth Century.** 1 Q. Winter. 3 cr. Open to seniors and graduates only. Required of English majors. Prerequisite, two quarters of English literature, preferably 58ab, or two quarters of either English history or of sociology. Intention is to find out what were the literary standards and aims of some of the chief writers of the century, what was special about each, and how currents of taste developed. Mr. Merriam.

**193c. Social Currents of the Nineteenth Century.** 1 Q. Spring. 3 cr. Open to seniors and graduates only. Required of English majors. Prerequisite, two quarters of English literature, preferably 58ab, or two quarters of either English history or of sociology. Intention is to find out what some of eminent writers of the century saw in the social conditions and activities of their time, and to consider their theories about making things better. Mr. Merriam.

**199 Seminar.** 3 Q. Autumn, winter, spring. Summer. 1 to 3 cr. each quarter. Open only to seniors and graduates after consultation with the instructor. Required of English majors. Instruction and practice in methods of literary study. Mr. Merriam.

### Literature

All courses listed in this division carry credit toward an English "major." Courses 25b and 184 carry credit toward a Greek and Latin "major." Courses in this division are listed as "Literature 25a" and "Literature 25b" and not as "English 25a" and "Greek 25b."

**25a. World Literature.** 1 Q. Autumn. Spring. 5 cr. Open only to freshmen; no prerequisite. Study of masterpieces of literature, with collateral reading. Mr. Fitzgerald, Miss Mirrielees.

**25b. Greek Literature in English.** 1 Q. Winter. 5 cr. Open to freshmen and sophomores only. No knowledge of the Greek language is required. General survey of Greek literature in English translations. Mr. Clark.

**52. Periods of World Drama.** 1 Q. Autumn. Summer. 4 cr. Open to sophomores. A beginning course in dramatic form and technique, the history of the stage, and the development of dramatic types. Study of a few plays, with collateral reading. Given in 1927-28, and in alternate years. Mr. Glick.

**76. Masters of Fiction.** 1 Q. Spring. 4 cr. Open to juniors and seniors. Prerequisite, English 58ab, or English 75, or one year of history or sociology. Study of novels, either of the present or the past, by the great novelists of the world—Balzac, Flaubert, Hugo, Tolstoi, Turgenyev, Howells, James, Meredith. Given in 1926-27, and in alternate years. Mr. Fitzgerald.

**77. Modern Drama.** 1 Q. Autumn. 4 cr. Open to juniors and seniors. Prerequisite, English 58ab or 57ab, or Literature 52. A review of the movements and thoughts in dramatic literature, as well

as a study of such dramatists as Hauptmann, Jones, Maeterlinck, Brieux, Galsworthy, Synge, Shaw, O'Neill. Given in 1926-27, and in alternate years. Mr. Glick.

**88. General Reading.** 1 Q. Spring. 2 cr. Open to junior and senior men only. Prerequisite, junior standing. Reading of ten books, five chosen by the instructor and five by the students. Discussion of five or six of these books. Mr. Beck.

**178. Tragedy.** 1 Q. Autumn. 4 cr. Open to juniors, seniors, and graduates. Prerequisite, Literature 52, or 77, or English 58ab, or English 57a or b. Study of the nature of tragedy; reading of great tragedies in the world's literature. Given in 1927-28, and in alternate years. Mr. Merriam.

**179. Comedy.** 1 Q. Winter. 4 cr. Open to juniors, seniors, and graduates. Prerequisite, Literature 52, or 77, or English 58ab, or English 57a or b. Study of the nature of comedy; reading of great comedies in the world's literature. Given in 1927-28, and in alternate years. Mr. Merriam.

**184. Influence of the Classics on English Literature.** 1 Q. Spring. 4 cr. Open to juniors, seniors, and graduates. Intensive study in translation of some Greek masterpieces and their influence on English literature. Given in 1927-28, and in alternate years. Mr. Clark.

**S186. American Critics.** 1 Q. Summer. 2½ cr. Open to juniors, seniors and graduates. A study of the critical writings of Woodberry, Spingarn, Brooks, Sherman and Mencken, with a brief preliminary review of the classical doctrines of criticism.

# FINE ARTS

PROFESSOR, CLIFFORD H. RIEDELL.

Major students in this department are required to complete 50 credits, including the following courses: 13, 28, 17ab, 12, 23, and 31abc.

## Design

**13abc. Elementary Design.** 3 Q. Autumn, winter, spring. Summer. 2 cr. each quarter. Open to all students. Essentials of design. Color, line, area, values composition. A fundamental course for art appreciation.

**28. Advanced Design.** 1 Q. Winter. 2 cr. Prerequisite, Fine Arts 13. The relation of design principles to modern problems.

**17a. Advertising.** 1 Q. Winter. 2 cr. The principles of drawing and design as related to advertising.

**17b. Advertising.** 1 Q. Spring. 2 cr. Prerequisite, Fine Arts 17a. Advanced problems in advertising.

**41. Teacher's Art.** 1 Q. Spring. 3 cr. Prerequisite, Fine Arts 13 and 23, and senior standing or consent of instructor. Given in 1926-27, and in alternate years.

## Drawing and Painting

**12abc. Elementary Drawing.** 3 Q. Autumn, winter, spring. 3 cr. each quarter. Summer 1 cr. Open to all students. Students may enter any quarter with consent of instructor. A systematic training in the modes of drawing. Pencil, brush and oil, and watercolor. From objects, photographs, and from nature.

**23abc. Advanced Drawing and Painting.** 3 Q. Autumn, winter, spring. 3 cr. each quarter. Summer 2 cr. Prerequisite, Fine Arts 12. Portrait and figure work in various mediums. Three quarters may be repeated for credit. Artistic anatomy is included in this course.

**33. Illustration.** 1 Q. Spring. 2 cr. Prerequisite, Fine Arts 13 and 23a. Drawing and design as related to illustration. Given in 1926-27, and in alternate years.

**123abc. Advanced Painting.** 3 Q. Autumn, winter, spring. 3 cr. each quarter. Prerequisite, consent of instructor. Painting from life. For advanced and graduate students.

## History of Art

**31a. History of Ancient Art.** 1 Q. Autumn. 2 cr. for non-majors; 3 cr. for majors in the department. Summer 2 cr. Prerequisite, sophomore standing. Primitive art through Roman art. Oriental art. Problems.

**31b. History of Mediaeval Art.** 1 Q. Winter. 2 cr. for non-majors; 3 cr. for majors in the department. Prerequisite, Fine Arts 31a. From Roman art to art of French Impressionists.

**31c. History of Modern Art.** 1 Q. Spring. 2 cr. for non-majors; 3 cr. for majors in the department. Prerequisite, Fine Arts 31b. From French Impressionists to present time.

## FOREIGN LANGUAGES

PROFESSORS, WESLEY P. CLARK, F. C. SCHEUCH (Chairman). ASSOCIATE PROFESSORS, RUDOLPH O. HOFFMAN, B. E. THOMAS. ASSISTANT PROFESSOR, MRS. LOUISE ARNOLDSON. INSTRUCTORS, ELSIE EMINGER, MRS. EVA MCKENZIE, META PETERSON, MAUDA POLLEY (on leave), HELEN TERRY, MRS. FLORA WEISBERG.

Students whose major work is French, Spanish or German must complete the following courses: 15b, 117, 119, 121, 123, 125, 127, 129. In addition they are required to take four quarters of another language and two quarters in the history of Europe. Not more than ninety credits in foreign languages will be counted toward the Bachelor of Arts degree.

Students who do minor work in French, German, or Spanish will not be recommended for teaching unless the work includes courses 15b and 117 in the respective languages.

The department of Foreign Languages does not give Senior Examinations, except to candidates for Honors.

For revised requirements in Foreign Language for graduation and evaluation of work done in high school see page 62.

### French

Note: Students who have one high school unit in French must enter 13a; those with two units, 15a; and those with three units, courses numbered over 100, subject, however, to placement tests. (See page 62.)

**11. Elementary French.** 2 Q. Autumn, winter. Winter, spring. Spring, autumn. 10 cr. Continuous. First quarter of course given in summer. 4 cr. Essentials of French grammar, practice in reading and conversation. Mrs. Arnoldson, Mr. Hoffman, Mrs. Weisberg.

**13a. Intermediate French.** 1 Q. Autumn. Winter. Spring. 5 cr. Summer. 4 cr. Prerequisite, 11 or one unit high school French. Selections from modern French authors are read and practice in the spoken language is given. Composition. Mrs. Arnoldson, Mr. Hoffman, Mrs. Weisberg.

**13b. Intermediate French.** 1 Q. Autumn. Winter. Spring. 5 cr. Prerequisite, 13a or equivalent. Continuation of 13a. Mrs. Arnoldson, Mr. Hoffman, Mrs. Weisberg.

**15a. Advanced French.** 1 Q. Autumn. Winter. Spring. 5 cr. Summer. 4 cr. Prerequisite, 13b, or two units high school French. Continuation of 13b with increased emphasis on literary appreciation. Opportunity for practice in the spoken language is given. Mrs. Arnoldson, Mr. Hoffman.

**15b. Advanced French.** 1 Q. Autumn. Winter. Spring. 5 cr. Prerequisite, 15a or equivalent. Continuation of 15a. Mrs. Arnoldson, Mr. Hoffman.

**117. French Grammar, Composition, Phonetics.** 1 Q. Autumn. Winter. Spring. 5 cr. Summer. 1-4 cr. Prerequisite, 15b or equivalent. Required of all students who major in French. Mr. Hoffman.

**119. General Survey of French Literature.** (Conducted in French.) 1 Q. Autumn. 5 cr. Prerequisite, 15b or equivalent. A general survey of French literary activity from the Serments de Strasbourg (842) to the end of the 19th century (1870). Stress laid on rise and development of principal writers and literary movements. Reading of representative works and emphasis on literary appreciation. Collateral readings and reports. Given in 1927-28, and in alternate years. Mr. Hoffman.

**121. History of French Literature in the 17th Century.** (Conducted in French.) 1 Q. Winter. 5 cr. Prerequisite, 15b or equivalent. General aspect of the century. Principal literary movements. Formation and role of the French Academy. The development of French literature from Malherbe to the end of the reign of Louis XIV. Assignments of outside readings. Oral and written records. Given in 1927-28, and in alternate years. Mr. Hoffman.

**123. History of French Literature in the 18th Century.** (Conducted in French.) 1 Q. Spring. 5 cr. Prerequisite, 15b or equivalent. General aspect of the century. Principal literary currents. The development of French literature from the death of Louis XIV to the advent of Napoleon. Assignments of outside readings. Oral and written reports. Given in 1927-28, and in alternate years. Mr. Hoffman.

**125. Cultural Background of French Literature.** (Conducted in French.) 1 Q. Autumn. 5 cr. Prerequisite, 15b or equivalent. A study of the great intellectual currents, artistic and literary movements, institutions, and ideas which have influenced the main phases of French literature. Cultural values emphasized. Discussions of indicated texts, collateral readings and reports. Readings from French literature illustrative of the influence of the epoch upon literary production. Given in 1926-27, and in alternate years. Mrs. Arnoldson.

**127. History of French Literature in the 19th Century.** (Conducted in French.) 1 Q. Winter. 5 cr. Prerequisite, 15b or equivalent. General aspect of the century. The romantic and realistic movements. The development of French literature from Chateaubriand to Rostand. Lectures in French. Assignments of outside readings. Oral and written reports. Given in 1926-27, and in alternate years. Mrs. Arnoldson.

**129. Contemporary French Literature.** (Conducted in French.) 1 Q. Spring. 5 cr. Prerequisite, 15b or equivalent. A study of the works of living or very recent writers, including the principal poets and dramatists. Collateral readings and reports of representative works and literary criticism. Given in 1926-27, and in alternate years. Mrs. Arnoldson.

### German

Note: Students who have one high school unit in German must enter 13a; those with two units, 15a; and those with three units, courses numbered over 100, subject, however, to placement tests. (See page 62.)

**11. Elementary German.** 2 Q. Autumn, winter. Winter, spring. Spring, autumn. 10 cr. Continuous. First quarter of course given in summer. 4 cr. Essentials of grammar, practice in reading and conversation. Mr. Scheuch, Mrs. Weisberg.

**13a. Intermediate German.** 1 Q. Autumn. Winter. Spring. 5 cr. Summer. 4 cr. Prerequisite, 11 or one unit high school German. Selections from German authors are read and practice in the spoken language is given. Composition. Mr. Scheuch, Mrs. Weisberg.

**13b. Intermediate German.** 1 Q. Autumn. Winter. Spring. 5 cr. Prerequisite, 13a or equivalent. Continuation of 13a. Mr. Scheuch.

**15a. Advanced German.** 1 Q. Autumn. Winter. Spring. 5 cr. Summer. 4 cr. Prerequisite, 13b or two units high school German. Composition and reading of classics. Mr. Scheuch.

**15b. Advanced German.** 1 Q. Winter. Spring. 5 cr. Prerequisite, 15a or equivalent. For majors in science, readers to be used are those based upon the major science taken.

**117. German Grammar, Composition, Conversation.** 1 Q. Autumn. Winter. Spring. 5 cr. Prerequisite, 15b.

**119. General Survey of German Literature.** 1 Q. Winter. Spring. 5 cr. Prerequisite, 117 or 15b.

### Spanish

Note: Students who have one high school unit in Spanish must enter 13a; those with two units, 15a; and those with three units, courses numbered over 100, subject, however, to placement tests. See page 62.)

**11. Elementary Spanish.** 2 Q. Autumn, winter. Winter, spring. Spring, autumn. 10 cr. Continuous. First quarter of course given in summer. 4 cr. Introduction to Spanish grammar. Practice in reading and conversation. Miss Peterson, Miss Terry.

**13a. Intermediate Spanish.** 1 Q. Autumn. Winter. Spring. 5 cr. Summer. 4 cr. Prerequisite, 11 or one unit high school Spanish. In this course a more detailed study of grammar is made. Spanish is used in classroom. Selections of modern Spanish authors are read. Miss Terry, Miss Peterson.

**13b. Intermediate Spanish.** 1 Q. Autumn. Winter. Spring. 5 cr. Prerequisite, 13a or equivalent. Continuation of 13a. Miss Terry, Miss Peterson.

**15a. Advanced Spanish.** 1 Q. Autumn. Winter. Spring. 5 cr. Summer. 4 cr. Prerequisite, 13b or two units high school Spanish. Composition, conversation, outside readings of journals, Spanish magazines, modern authors in classroom texts. Miss Terry.

**15b. Advanced Spanish.** 1 Q. Autumn. Winter. Spring. 5 cr. Prerequisite, 15a or equivalent. Continuation of 15a. Mr. Thomas, Miss Terry.

**117. Spanish Grammar, Composition, Phonetics.** 1 Q. Autumn. Winter. Spring. 5 cr. Summer. 4 cr. Prerequisite, 15b or equivalent. Required of all students who major in Spanish. Mr. Thomas.

**119. General Survey of Spanish Literature.** 1 Q. Autumn. 5 cr. Prerequisite, 15b or equivalent. Given in 1927-28, and in alternate years. Mr. Thomas.

**121. Spanish Drama.** 1 Q. Winter. 5 cr. Prerequisite, 15b or equivalent. Given in 1927-28, and in alternate years. Mr. Thomas.

**123. Spanish Literature of the Eighteenth Century.** 1 Q. Spring. 5 cr. Prerequisite, 15b or equivalent. Given in 1927-28. Mr. Thomas.



**125. Spanish Life and Customs.** 1 Q. Autumn. 5 cr. Prerequisite, 15b or equivalent. Spanish daily life, customs, habits, influence upon the language through Moorish occupation. Course is given in Spanish. Given in 1928-29, and in alternate years. Mr. Thomas.

**127. Spanish Literature in the Nineteenth Century.** 1 Q. Winter. 5 cr. Prerequisite, 15b or equivalent. Romanticism, the Revolution. Given in 1928-29, and in alternate years. Mr. Thomas.

**129. Contemporary Spanish Literature.** 1 Q. Spring. 5 cr. Prerequisite, 15b or equivalent. Among the authors studied those of South America will be included. Given in 1928-29, and in alternate years. Mr. Thomas.

### Latin and Greek

Students who do major work in Latin will be required to complete 40 credits in Latin, including 149, exclusive of 11abc, or 35 credits in Latin, and 10 credits in Greek or Literature 184 and Greek 121. Those who intend to teach Latin will not be recommended for teaching unless the work includes 25 credits in Latin in addition to 11abc.

Note: The evaluation of high school work in Foreign Languages (see page 62) will not apply to Latin and Greek in 1926-27. However, students with entrance credit in Latin or Greek who desire to continue the study of these languages in the University are required to take placement tests. One unit of Latin is evaluated as one and one-half quarters in the University; two units are equivalent to Latin 11abc; four to 13abc. Those entering with two units of Latin, and electing to complete the Foreign Language requirement in Latin, are required to complete 13a, and are urged to complete 13bc.

**11abc. Elementary Latin.** 3 Q. Autumn, winter, spring. 5 cr. each quarter. For students who enter with no credit in Latin. Profitable for Romance language and English majors. The three quarters cover the work of two years in high school. Mrs. McKenzie.

**13a. Intermediate Latin.** 1 Q. Autumn. 5 cr. Prerequisite, 11 or two units of high school Latin. Selections from the orations of Cicero studied for their literary and historical value. Daily attention to mastery of the fundamentals of the language and building of English and Latin vocabularies. Mrs. McKenzie.

**13b. Intermediate Latin.** 1 Q. Winter. 5 cr. Prerequisite, 13a or three units of high school Latin. Vergil's Aeneid I-VI. Introduction to Latin poetry, reading of Latin hexameter, appreciation of permanent values of the Aeneid. An attempt will be made through this course to introduce the students to our literary heritage from classical antiquity. Mrs. McKenzie.

**13c. Intermediate Latin.** 1 Q. Spring. 5 cr. Prerequisite, 13b. Continuation of 13b. Mrs. McKenzie.

**15a. College Freshman Latin.** 1 Q. Autumn. 5 cr. Prerequisite, 13b or four units of high school Latin. Reading in Latin and translation of Cicero's De Senectute and De Amicitia or selections from Livy. Important directions in how to study and appreciate Latin. Mr. Clark.

**15b. College Freshman Latin.** 1 Q. Winter. 5 cr. Prerequisite, 15a or equivalent. The Odes of Horace. The most important odes will be studied for their form, ideas, and influence on English poetry. Reading of the commonest metrical forms in Latin; outline of Roman literature. Mr. Clark.

**17a. Second Year College Latin.** 1 Q. Autumn. Spring. 5 cr. Prerequisite, 15b or equivalent. Pliny the Younger and Tacitus or Martial. Selections from the letters of Pliny the Younger and the Agricola or Germania of Tacitus or the Epigrams of Martial will be studied as a basis for an appreciation of the political and social life of the first century, A. D. Mrs. McKenzie, Mr. Clark.

**17b. Second Year College Latin.** 1 Q. Autumn. 5 cr. Prerequisite, 17a or equivalent. Catullus and Terence. Selections from Catullus will be read, translated, and studied for literary value. One comedy of Terence will be used as a basis for the study of ancient post-Aristophanic comedy. Mrs. McKenzie.

**115. Advanced Latin.** 1 Q. Winter. 5 cr. Prerequisite, 17b or equivalent. An introduction to the philosophy of the Greeks and Romans based on the Tusculan Disputations of Cicero and selections from Seneca. Not given in 1927-28. Mr. Clark.

**139. Lucretius and the Poetry of Science.** 1 Q. Spring. 5 cr. Prerequisite, 17b. Reading, translation, and appreciation of the best portions of *De Rerum Natura*. Mrs. McKenzie.

**141. The Annals of Tacitus. I-VI.** 1 Q. Autumn. 5 cr. Prerequisite, 17b. Mr. Clark.

**143. Life and Works of Vergil.** 1 Q. Winter. 5 cr. Prerequisite, 17b. Study of selected Eclogues and parts of the Georgics, review of Aeneid I-VI, reading of Aeneid VII-XII. Mr. Clark.

**145. Roman Comedy.** 1 Q. Spring. 5 cr. Prerequisite, 17b. Not given in 1927-28. Mr. Clark.

**147. Latin of the Late Empire.** 1 Q. Autumn. 5 cr. Prerequisite, 17b. Study of selections from late pagan and early Christian writers from the point of view of style and the attainment of an understanding of this transitional period in history. Not given in 1927-28. Mr. Clark.

**149. Writing Latin (Advanced).** 1 Q. Spring. 4 cr. Prerequisite 17b or equivalent. Prepared exercises in translation into Latin either from text-book or selected passages of English; extempore composition in Latin on simple themes. Not given in 1927-28. Mr. Clark.

**151. Introduction to Roman Epigraphy.** 1 Q. Winter. 5 cr. Prerequisite, 17b or equivalent. Attention is given to learning to read Latin inscriptions and to the main points of linguistic and historical interest in certain important inscriptions. Not given in 1927-28. Mr. Clark.

### Greek

The objectives sought are two: 1. The teaching of the Greek language to those who realize its absolute importance for anything more than a superficial knowledge of Greek literature, art, and civilization. 2. To give an opportunity for such contact with the Greek genius as can be had without any knowledge of the language. Course 11 and those following are intended to meet the first objective. Courses 121 and Literature 25b and 184 (see pages 84-85) are intended to meet the second objective.

**11. Elementary Greek.** 2 Q. Autumn, winter. Continuous. 10 cr. Open to freshmen. The fundamentals of vocabulary, forms, and syntax are learned. Attention to English derivatives from Greek; such acquaintance with Greek life and art as may be possible in the beginning of the language. Mr. Clark.

**13a. Intermediate Greek.** 1 Q. Spring. 3 cr. Review of fundamentals of Homeric Greek learned in courses 11ab. Transition to Attic Greek. Introduction to Greek Tragedy. Mr. Clark.

**13b. Intermediate Greek.** 1 Q. Winter. 3 cr. Introduction to Plato; study of the Apology, Crito and parts of the Phaedo. Not given in 1927-28. Mr. Clark.

**15a. Advanced Greek.** 1 Q. Spring. 3 cr. A study of the Prometheus Bound of Aeschylus and the Antigone of Sophocles or further work in Plato. Survey of Greek Literature. Not given in 1927-28. Mr. Clark.

**121. The Political and Social Thought of Plato and Aristotle.** 1 Q. Spring. 3 cr. Open to juniors, seniors, and graduates. A consideration of the theories of government and society as presented in the dialogues of Plato and the Politics of Aristotle. Of interest to those who are pursuing studies in sociology, economics, political science, or law. Given in 1926-27 and in alternate years. Mr. Clark.

See also Literature 25b and 184. (Pages 84-85.)

**The following courses are given in the summer quarter only:**

Special work will be given in Latin and Greek to students, on independent rather than a classroom basis. Mr. Clark.

# GEOLOGY

PROFESSORS, C. H. CLAPP, J. P. ROWE (Chairman). ASSOCIATE  
PROFESSOR, J. H. BRADLEY. ASSISTANT, ROYLE C. ROWE.

Students who do major work in this department must complete Geology 11 or 13, 22, 23, 24, 26, and 35, and other courses to receive 50 credits in the department. They should also complete 20 credits in Modern Languages, Forestry 45a, Mathematics 12, Chemistry 11, and Physics 11; and in addition those emphasizing Economic Geology and Petrology should take Chemistry 15 and 17, Mathematics 13 and 21, and Physics 20 or Mathematics 22, 23, and 24; and those emphasizing Stratigraphy and Paleontology should take Biology 11 and Botany 11.

The Department of Geology does not give Senior Examinations except to candidates for Honors.

## SUGGESTED CURRICULA FOR MAJORS IN GEOLOGY

(Emphasizing Economic Geology and Petrology)

### FRESHMAN YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Chemistry 11 or 13 .....	5	5	5
English 11a or Language .....	5	5	5
Mathematics 12 and Elective .....	5	5	5
Physical Education .....	1	1	1
Military Science .....	1	1	1
	17	17	17

### SOPHOMORE YEAR

Forestry 45a .....	3	.....	.....
Geology 13ab .....	.....	5	5
Physics 11 or 20 .....	5	5	5
English 11b and Elective or Language .....	5-6	5-6	5-6
Physical Education .....	1	1	1
Military Science .....	1	1	1
	15-16	17-18	17-18

### JUNIOR YEAR

Geology 22 and 23 .....	3	3	3
Geology 24 and 26 .....	4	4	4
Geology 35 .....	1	.....	2
Economics or History .....	4-5	4-5	.....
Chemistry 15 and 17 .....	5	5	5
	17-18	16-17	14

### SENIOR YEAR

Geology 101 and 103 .....	5	5	5
Geology 131 and 135 .....	4	4	3-5
Geology 102 .....	.....	3	.....
Geology 105 .....	.....	.....	3
Literature or Philosophy .....	4	4	4
Elective .....	4	.....	.....
	17	16	15-17

## (Emphasizing Stratigraphy and Paleontology)

## FRESHMAN YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Geology 11 .....	5	5	....
Political and Economic Progress .....	5	5	5
English 11a or Language .....	5	5	5
Physical Education .....	1	1	1
Military Science .....	1	1	1
Elective .....	---	---	3
	17	17	15

## SOPHOMORE YEAR

Chemistry 11 or 13 .....	5	5	5
Mathematics 12 .....	5	....	....
Biology .....	5	5	5
Geology 13b .....	....	....	5
English 11b and Elective .....	....	6	....
Physical Education .....	1	1	1
Military Science .....	1	1	1
	17	18	17

## JUNIOR YEAR

Geology 22 and 23 .....	3	3	3
Geology 24 and 26 .....	4	4	4
Geology 35 .....	1	....	2
Literature and Philosophy .....	4	4	....
Language or Elective .....	5	5	5
	17	16	14

## SENIOR YEAR

Geology 111 .....	5	5	....
Geology 102 .....	....	3	....
Geology 135 .....	....	....	3-5
Forestry 45a .....	3	....	....
Botany .....	5	5	5
Elective .....	....	3	4
	13	16	12-14

## For Undergraduates

**11ab. General Geology.** 2 Q. Autumn, winter. 5 cr. each quarter. Limited credit is given to those who have had Geology 14 or 15. This course acquaints the student who does not expect to specialize in Geology with the main facts and principles of the science, by means of class discussions, readings, laboratory, and field work. The first quarter is given to a study of common minerals and rocks, the agents of geologic change, the origin and development of the surface features of the earth, and its broad structural features. The second quarter is directed to the origin and evolution of the earth and its former and present life. Mr. Rowe and Mr. Bradley.

**13a. Dynamical Geology.** 1 Q. Winter. 5 cr. Prerequisite, Chemistry 11a and High School Physics. Not open to freshmen or to those who have completed 11a. Limited credit is given to those who have had Geology 14 or 15. A detailed study of the principles of dynamical geology, designed primarily for those who wish to major in Economic Geology and Petrology. Mr. Rowe.

**13b. Structural Geology.** 1 Q. Spring. 5 cr. Prerequisite, Geology 13a or 11a, 24, 26, High School Physics and Mathematics 12. A detailed study of the structural features of the earth's crust, presented largely by means of lectures and problems. Mr. Rowe.

**14. Forestry Geology.** 1 Q. Spring. 5 cr. For students in the School of Forestry. Not open to those who have had Geology 11 or 13. Primarily the application of Geology to Forestry through a careful study of common minerals, rocks and soils, geologic agents, development of topographic features. Mr. Bradley.

**16. Geography and Natural Resources of Montana.** 1 Q. Autumn. Winter. Spring. 3 cr. The discussion of the principal geographic features of the state, and the occurrence and utilization of its natural resources. Mr. Rowe.

**22. Historical Geology.** 2 Q. Autumn, winter. Continuous. 6 cr. Prerequisite, Geology 11b or 13b. A detailed study of the origin and history of the earth as read in the record of the rocks and the evolution of the principal forms of life. The first quarter takes the study to the close of the Paleozoic era, and the second quarter continues it to the present time. Mr. Bradley.

**23. Stratigraphy of North America.** 1 Q. Spring. 3 cr. Prerequisite, Geology 22. A study of the geology of North America as determined by the detailed stratigraphy of type areas. Mr. Bradley.

**24. Mineralogy.** 2 Q. Autumn, winter. Continuous. 8 cr. Chemistry 11 is prerequisite or may be taken simultaneously. The elements of crystallography and the classification and determination by means of physical properties, blowpipe analysis, and other simple chemical tests, of about 175 common minerals of geologic and economic importance. Mr. Rowe.

**26. Petrology.** 1 Q. Spring. 4 cr. Prerequisite, Geology 24. A careful study of the common rocks by means of their physical characters and mineral composition, their identification in the field, classification, origin and structural features. Mr. Rowe.

**35. Field Geology.** 2 Q. Autumn 1 cr., spring 2 cr. Prerequisite, Geology 11b or 13b. A course designed primarily to illustrate geologic features and principles by a study of actual cases in the field. Mr. Bradley.

#### For Undergraduates and Graduates

**101. Economic Geology.** 1 Q. Autumn. 5 cr. Prerequisite, Geology 11b or 13b and 24. A general study of the non-metallic mineral deposits of North America. Mr. Rowe.

**102. Petroleum Geology.** 1 Q. Winter. 3 cr. Prerequisite, Geology 11b or 13b and 26. Primarily the application of geologic principles to the discovery of petroleum, with a careful study of the features of the chief oil and gas fields of the United States. Mr. Rowe.

**103. Mineral Deposits.** 2 Q. Winter, spring. Continuous. 10 cr. Prerequisite, Geology 13b, 26, and 101. A course in the more theoretical aspects of the geology of metallic mineral deposits, including structural features, transportation and deposition of minerals, alteration of wall rocks, classification of mineral deposits, and secondary enrichment. Mr. Clapp or Mr. Rowe.

**105. Mining, Mineral, and Geological Law.** 1 Q. Spring. 3 cr. Prerequisite, junior standing and permission of instructor. A study of the laws that apply to the location, ownership and development of ore deposits, petroleum and natural gas, stone and water. Not given in 1927-28. Mr. Rowe.

**111. Invertebrate Paleontology.** 2 Q. Autumn, winter. Continuous. 10 cr. Prerequisite, Geology 11b or 13b. Biology 11 recommended. A systematic study of the evolution of the invertebrates through geologic times as shown by the fossil record, and the identification of fossils and fauna that determine the age of different formations. Mr. Bradley.

**131. Petrography.** 2 Q. Autumn, winter. Continuous. 8 cr. Prerequisite, Geology 26. A study of the elements of optical mineralogy and the identification of rock minerals, in thin sections with the polarizing microscope; followed by the microscopic study of the principal rock types, and a discussion of their origin and classification. Mr. Rowe.

**135. Geological Surveying.** 1 Q. Spring. 3 or 5 cr. Prerequisite, Geology 22, 26, and 35. This course aims to acquaint the student with the methods used in making a detailed study of field problems and preparing a formal report upon the investigation as exemplified by the thorough study of some selected field. Mr. Rowe, Mr. Clapp, Mr. Bradley.

**201. Research.** Any quarter. Credits variable. The department is prepared to arrange for properly qualified students advanced and research courses in paleontology, stratigraphy, structural geology, mineralogy, petrography and economic geology. Mr. Rowe and Mr. Bradley.

**The following course will be given in the 1927 Summer Session:**

**S5. Principles of Physical Science.** Third term (three weeks). 1½ cr. The materials of the earth and the origin of surface features, with emphasis on the geological processes of destruction, reconstruction, and deformation; earth origin and evolution. When possible, Montana illustrations will be used and certain week-end field trips will be required in place of laboratory work. Mr. Bradley.

# HISTORY AND POLITICAL SCIENCE

PROFESSORS, J. EARLL MILLER (on leave), PAUL C. PHILLIPS (Chairman). ASSISTANT PROFESSORS, EDWARD EARL BENNETT, OLE TONNING. ASSISTANTS, HAROLD BLINN, MADELINE TURCK.

Students who do major work in the Department of History and Political Science are required to choose either History or Political Science as a special field of study. All majors must elect not less than six credits from courses 102 and 104.

Constitutional Law, Municipal Corporations, and Public Utilities offered by the Law School and Railway Transportation, Public Finance, Labor Problems, and Public Utilities offered by the Department of Economics may be applied towards a major in Political Science.

Course 11 is offered only to freshmen. Sophomores who desire to continue work in this department should consult the Chairman for advice on courses to suit different needs.

The Department of History requires senior examinations of all majors.

**11a. Political and Economic Progress.** 1 Q. Autumn. 5 cr. Open to freshmen only. Topical review of the political, economic, and religious bases of modern civilization from the fall of the Roman Empire to the age of Louis XIV. Mr. Tinning.

**11b. Political and Economic Progress.** 1 Q. Winter. 5 cr. Open to freshmen only. The rise of the modern political, economic, and social problems from the age of Louis XIV to the end of the industrial revolution. Mr. Tinning.

**11c. Political and Economic Progress.** 1 Q. Spring. 5 cr. Open to freshmen only. The development of political, economic, and social problems since the industrial revolution. Mr. Tinning.

**13a. English History to 1688.** 1 Q. Autumn. 4 cr. Open to sophomores. The political, economic, and social history of England from the earliest time to the Glorious Revolution. Mr. Miller.

**13b. English History (1688-1927).** 1 Q. Winter. 4 cr. Open to sophomores. Political, economic, and social development with especial attention to colonial and imperial organization. Mr. Miller.

**15. Greek History.** 1 Q. Autumn. 4 cr. Prerequisite, 5 cr. in History or Greek. The cultural, social, and political development of ancient Greece with emphasis on its influence upon modern life. Given in 1927-28, and in alternate years. Mr. Phillips.

**16. Roman History.** 1 Q. Autumn. 4 cr. Prerequisite, 5 cr. in History or Latin 15a. The cultural, institutional, and political development of Rome and Roman influence on modern life. Given in 1927-28, and in alternate years. Mr. Phillips.

**17. American Government and Politics.** 1 Q. Autumn. Summer. 4 cr. Prerequisite, History 11bc or 21. A study of the organization and functions of the Federal Government. Attention will be given to politics as a part of our governmental system. Mr. Phillips.



**18. State and Local Government.** 1 Q. Winter. 4 cr. Prerequisite, History 17. A study of the organization and functions of the American state, county, and city. Mr. Phillips.

**19. Principles of Political Science.** 1 Q. Spring. 4 cr. Prerequisite, History 11bc, 13, or 21. An introductory study of the origin and nature of the state, sovereignty, forms of government, constitutions, citizenship suffrage. Mr. Miller.

**20. Comparative Governments.** 1 Q. Spring. 4 cr. Prerequisite, History 11bc, 13, or 17. A study of representative types of government, constitutional beginnings, organizations, methods of legislation, and administration. Mr. Phillips.

**21a. United States History. (1492-1800.)** 1 Q. Autumn. 4 cr. Combined with 21bc in summer. 4 cr. Prerequisite, sophomore standing. Colonial beginnings and types of colonial government with attention to social and economic conditions. The intercolonial wars and British policy. Causes of the American Revolution. The Confederation, formation of the national government, general American history to the inauguration of Jefferson. Duplicates History 14 in previous catalogs. Mr. Phillips.

**21b. United States History. (1800-1876.)** 1 Q. Winter. 4 cr. Prerequisite, sophomore standing. The development of nationality and democracy; the westward movement; the slavery and nullification controversy; Civil War and Reconstruction. Mr. Phillips.

**21c. Contemporary United States History. (1876-1928.)** 1 Q. Spring. 4 cr. Prerequisite, sophomore standing. The New West; agricultural and industrial development; influence of business and organized labor; movements for reform, the World War and new problems. Mr. Phillips.

**22. Montana History and Government.** 1 Q. Summer. 3 cr. Prerequisite, History 21. The exploration of Montana, early traders and missionaries, the gold mining era, territorial organization and development and statehood. The course will close with a survey of economic, social, and political development and discussion of present day problems. Mr. Phillips.

**23. Latin American History.** 1 Q. Spring. 4 cr. Prerequisite, History 11a or 14, and sophomore standing. A general survey of the development of Spanish America and Brazil with attention to the recent social, economic, and political history of these countries. Mr. Phillips.

**29. French Revolution and Napoleonic Era.** 1 Q. Autumn. 4 cr. Prerequisite, 2 quarters of History 11 or 35. Economic, social, political, and religious developments, and the international reaction to the Revolution. Mr. Bennett.

**30a. Europe in the Nineteenth Century.** 1 Q. Winter. 3 cr. Summer. 4 cr. Prerequisite, 2 quarters of History 11 or 13b, or 29. The internal economic, social, political, and religious development of France, Germany, Austria, and Italy through the Revolution. Mr. Bennett.

**30b. Europe in the Nineteenth Century.** 1 Q. Spring. 3 cr. Prerequisite, History 30a. The internal economic, social, political and religious development of continental Europe since 1870. Mr. Bennett.

**33. Medieval Europe.** 1 Q. Autumn. 3 cr. Open to sophomores who have not had History 11a. The political, social, economic, and institutional development of Europe from the barbarian invasions to 1300. Mr. Bennett.

**34. Renaissance and Reformation.** 1 Q. Winter. 3 cr. Open to sophomores who have not had History 11a. The political and social history of Europe from 1300 to 1600 with some emphasis on the history of ideas. Mr. Bennett.

**35. The Old Regime in Europe.** 1 Q. Spring. 3 cr. Prerequisite, History 11a or History 34 and sophomore standing. The history of Europe from about 1600 to the outbreak of the French Revolution. Mr. Bennett.

**101. The Teaching of History.** 1 Q. Winter. 2 cr. Open to seniors who have had 25 credits in History. Required of majors desiring teacher's certificate in history. Especial attention is given to the fundamental purpose of history, the course of study, the choice of textbooks, organization of subject matter, methods of recitation, and equipment for teaching. Mr. Bennett.

**102. History of the Northwest.** 2 Q. Autumn, winter. 3 cr. each quarter. Prerequisite, History 21. An advanced course for the study of the most significant factors in the history of the northwestern states and their relation to the nation. Mr. Phillips.

**103. Recent European History.** (1914-1927.) 1 Q. Summer. 4 cr. Prerequisite, 30ab. Brief preliminary survey of the causes and main events of the World War; the peace treaties of 1919 and the effects of the World War on the nations and peoples of Europe; the subsequent political, economic, and social developments to the present time. Current books and magazines will be used. Mr. Bennett.

**104. Seminar in History and Political Science.** 3 Q. Autumn, winter, spring. Summer. Credit to be arranged. Prerequisite, 25 cr. in History and senior standing. The work will be purely individual and adapted to suit the needs of the student. Mr. Bennett and other members of the department.

**106. International Public Law.** 2 Q. Winter, spring. Continuous. 6 cr. Prerequisite, History 11bc, 13, or 21, and junior standing. A study of the laws of nations in relation to peace, war, and neutrality. Given in 1928-29, and in alternate years. Mr. Miller.

**107. International Relations.** 2 Q. Winter, spring. Continuous. 6 cr. Prerequisite, History 11bc or 13, and junior standing. The present international situation and its historic background; the development of imperialism and world politics, the diplomatic relations and problems of the United States. Given in 1927-28, and alternate years. Mr. Miller.

**110. England and the British Empire (1870-1920).** 1 Q. Summer. 4 cr. Prerequisite, junior standing. The internal problems of England; social reform, industrial progress, agricultural development, trade unionism and kindred topics. The relations of England with the colonies. The internal problems of the self-governing dominions. Particular emphasis will be given to Canada. Given in 1928. Mr. Miller.

**127a. The Constitutional History of England.** 1 Q. Autumn. 3 cr. Prerequisite, History 13 and junior standing. May be applied toward a major in either History or Political Science. A study of the origin and growth of English institutions to the Magna Charta; the Anglo-Saxons; the feudal system; the early church; the beginnings of the jury system. Not given in 1927-28. Mr. Miller.

**127b. The Constitutional History of England.** 1 Q. Winter. 3 cr. Prerequisite, History 13 and junior standing. May be applied

toward a major in either History or Political Science. English institutions from Magna Charta to the Great Revolution; the rise of Parliament, the development of the common law, the church in the middle ages, the reformation. Not given in 1927-28. Mr. Miller.

**127c. The Constitutional History of England.** 1 Q. Spring. 3 cr. Prerequisite, History 13 and junior standing. May be applied toward a major in either History or Political Science. English institutions from the Great Revolution to the present time; the cabinet system, the industrial revolution, social, legal, and parliamentary reform, home rule, the imperial government today. Not given in 1927-28. Mr. Miller.

# HOME ECONOMICS

PROFESSOR, HELEN GLEASON (Chairman, on leave). ASSISTANT PROFESSORS, MONICA F. BURKE (Director of Residence Halls), ANNE PLATT (Acting Chairman), EDITH RHYNE.

The aim of the department is threefold: to liberalize every woman's education by giving her an appreciation of her greatest profession, that of home making; to train teachers for the secondary and normal schools and colleges; to train dietitians and managers for institutions, including hospitals, dormitories, tea and lunch rooms, and cafeterias.

Students who do major work in this department are required to have a minimum of 55 credits in Home Economics, including the following:

For home-makers: 14 or 18, 15ab, 16, 21, 32, 117, 119, 120, 122, 123, and 124.

For teachers: 14 or 18, 15ab, 16, 21, 117, 119, 120, 122, 123, 124, 139, 141. Course 17 is advised.

For institutional majors: 14 or 18, 15ab, 16, 117, 119, 123, 124, 133, 135, 139. Course 17 is advised.

In addition a major student in Home Economics qualifying to teach must take Chemistry 11, 19, 103, Household Physics 12. Sociology 61a, and Bacteriology 19a are recommended.

Students majoring in Fine Arts and minoring in Home Economics may elect Home Economics 16, 14 or 18, 32, 117, 119, 141, 150.

Students majoring in Home Economics and minoring in Fine Arts may elect Fine Arts 12abc, and 13. Courses 23a, 41, 28, and 23bc are optional.

A course in Textile Chemistry is given in 1927-28 and in alternate years in the department of Chemistry for majors in Home Economics.

The Department of Home Economics does not give Senior Examinations, except to candidates for Honors.

## SUGGESTED CURRICULA FOR HOME ECONOMICS MAJORS

### Home-makers' Course

#### FIRST YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Chemistry 11 or 13.....	5	5	5
English 11a .....	5	5	5
Modern Language .....	5	5	5
Household Physics 12 .....	5	5	5
Foods 15ab .....	1	1	1
Physical Education .....	1	1	1
	<u>16</u>	<u>16</u>	<u>16</u>

## SECOND YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Psychology 11ab .....	4	4	....
Foreign Language .....	5	5	....
Organic Chemistry 19 .....	3	5	....
English 11b .....	4	....	....
Clothing Design 16 .....	....	....	3
Clothing 14 or 18 .....	....	....	4-5
Textiles 117 .....	....	....	4
Educational Psychology 19 .....	1	1	1
Physical Education .....	....	....	5
Physical Chemistry 103 .....	....	....	....
	17	15	17-18

## THIRD YEAR

Principles of Economics or History .....	4	4	....
Nutrition 122 .....	5	3	....
Foods 21 .....	....	4	....
Clothing 120 .....	....	5	....
House Planning and Furnishing 119 .....	7	....	16
Electives .....	....	....	....
	16	16	16

## FOURTH YEAR

Sociology 61a .....	4	....	....
Home Administration 124 .....	5	....	....
Nutrition in Disease 123 .....	....	....	4
Millinery 32 .....	....	3	....
Electives .....	7	13	12
	16	16	16

## Teachers' Course

Home-makers' Curriculum and Teachers' Curriculum identical for the first two years.

## THIRD YEAR

School Hygiene 30 .....	....	3	....
General Bacteriology 19a .....	5	....	....
Economics or History .....	4	....	4
Principles of Education 18 .....	3	....	....
Nutrition 122 .....	5	....	....
Foods 21 .....	....	3	....
Clothing 120 .....	....	4	....
House Planning and Furnishing 119 .....	....	5	....
Educational Sociology 138 .....	....	....	4
Nutrition in Disease 123 .....	....	....	4
Foods 138 .....	....	....	4
	17	15	16

## FOURTH YEAR

Education 26 (Observation and Teaching) .....	....	5	....
The High School 22 .....	4	....	....
Home Administration 124 .....	5	....	....
Reading in Nutrition 139 .....	....	....	2-4
Advanced Clothing Design 141 .....	....	....	4
Electives .....	7	11	8
	16	16	14-16

**Institutional Management Course**

Teachers' Curriculum and Institutional Management Curriculum identical for the first two years.

## THIRD YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Economics or History .....	4	.....	4
General Bacteriology 19ab .....	5	5	.....
Nutrition in Disease 123 .....	.....	.....	4
Foods 21 .....	.....	3	.....
Foods 138 .....	.....	.....	4
Nutrition 122 .....	5	.....	.....
House Planning and Furnishing 119 .....	.....	5	.....
Electives .....	2	3	3
	<hr/> 16	<hr/> 16	<hr/> 15

## FOURTH YEAR

Home Administration 124 .....	5	.....	.....
Institutional Cookery 133 .....	5	.....	.....
Institutional Management 135 .....	.....	5	.....
Readings in Nutrition 139 .....	.....	.....	2-4
Electives .....	6	11	12
	<hr/> 16	<hr/> 16	<hr/> 14-16

**Foods**

**13. Food in Relation to Health.** 1 Q. Autumn. 3 cr. Open to all students, men and women, except majors in the department. This course deals with the fundamental principles of nutrition as related to health.

**15ab. Foods.** 2 Q. Winter, spring. Continuous. 10 cr. An introduction to the study of foods from a scientific and economic aspect with emphasis placed on selection and place in the diet.

**17. Food Preservation.** 1 Q. Summer. 3 cr. Prerequisite, either Chemistry 11, or Foods 15, or Bacteriology 19. A study of the principles of Bacteriology applied to the preservation of all foods. Not given in 1927.

**21. Foods.** 1 Q. Winter. 3 cr. Prerequisite, Foods, 15, or its equivalent. Chemistry 11 and Physics 12 strongly recommended. Meal planning, serving, marketing.

**122. Nutrition.** 1 Q. Autumn. 5 cr. Prerequisite, Foods 15 and registration or credit in Chemistry 103. A study in dietetics given in the light of chemistry and physiology of digestion, the energy value of food, the nutritive properties of proteins, fats, carbohydrates, ash constituents, and vitamins. Special emphasis is placed upon the symptoms, causes and treatment of malnutrition of children and adults. For upper classmen and graduates.

**123. Nutrition in Disease.** 1 Q. Spring. 4 cr. Prerequisite, Home Economics 122. This course includes the symptoms of disease, prophylactics, and feeding in disease. For upper classmen and graduates.

**133. Institutional Cookery.** 1 Q. Autumn. 5 cr. Summer. 3 cr. Prerequisite, Home Economics 15. The application of scientific, economic and sociological principles to the feedings of large numbers of people. For upper classmen and graduates.

**138 Foods.** 1 Q. Spring. 4 cr. Prerequisite, Foods 21 and Chemistry 19. Special food problems are assigned for individual investigation. For upper classmen and graduates.

**139. Readings in Nutrition.** 1 Q. Spring. 2 to 4 cr. Prerequisite, Home Economics 122. For seniors and graduates.

**191. Problems in Nutrition.** 1 to 3 Q. Autumn, winter, spring. 2 to 6 cr. Prerequisite, Home Economics 122. Experimental work in nutrition with rat colony. For seniors and graduates.

### Clothing

**14. Clothing.** 1 Q. Autumn. Spring. Summer. 3 cr. Open to all students who have not had high school clothing. This course is designed for students who wish to acquire ability in clothing selection and construction.

**16. Clothing Design.** 1 Q. Autumn. 4 cr. Prerequisite, recommended, Fine Arts 13. Composition and color studied through the use of masterpieces and the application of art principles to clothing.

**18. Clothing.** 1 Q. Spring. 3 cr. Prerequisite, high school clothing. Not open to students who have had Clothing 14. Application of economics, physiology, and art to clothing.

**32. Millinery.** 1 Q. Winter. 3 cr. Open to all students. This course includes both design and composition. A study is made of materials, frames, and trimmings. Emphasis is laid on the application of art principles to meet individual requirements.

**117. Textiles.** 1 Q. Spring. 4 to 5 cr. Prerequisite, Chemistry 11; recommended Chemistry 105 and Home Economics 16. Comprising a study of fibers, their manufacture and use; physical and chemical tests to aid in the selection of clothing and household furnishings.

**120. Clothing.** 1 Q. Winter. 4 cr. Prerequisite, Home Economics 14 or 18 and 16; recommended 117. Special emphasis given to suitability and design in costume. The clothing problem of the family studied.

**141. Advanced Clothing Design.** 1 Q. Spring. 4 cr. Prerequisite, Home Economics 120. This course comprises the application of all the art principles in the carrying out of original designs in materials. For upper classmen and graduates.

**150. Clothing.** 1 Q. Winter. 4 cr. Prerequisite, Home Economics 120 and 141. Special problems in costume design which deal with the historical development of dress are assigned for individual investigation. Originality in design is emphasized. For seniors and graduates.

### Shelter

**119. House Planning and Furnishing.** 1 Q. Winter. 5 cr. Open to all students of junior standing. The aesthetic, economic and hygienic problems in house planning and furnishing.

**124. Home Administration.** 1 Q. Autumn. 5 cr. Prerequisite, Home Economics 122; recommended 119. A careful study of the problems in the profession of home-making, emphasizing child care and welfare and woman as the chief executive officer, financier, and educator. For upper classmen and graduates.

**135. Institutional Management.** 1 Q. Winter. 5 cr. Prerequisite, Home Economics 133. Includes organization, management, and equipment of special types of institutions, such as dormitories, hospitals, tea rooms, cafeterias, and hotel dining rooms. For seniors and graduates.

**The following courses are given in the summer quarter only:**

**S11. Food Preparation.** 1 Q. Summer. 3 cr. This course will be given in three divisions, each division being made up of short units devoted to special food problems. Miss Burke.

Division 1: Sugar cookery, hot breads, cakes.

Division 2: Pastry, fruits and vegetables, meats.

Division 3: Salads, desserts, meal planning.

**145. Methods of Teaching Home Economics.** 1 Q. Summer. 3 cr. Prerequisite, Home Economics 15 and Home Economics 18 or their equivalents. This course will discuss the aims, organization, and presentation of subject matter and the measurement of attainments for the various types of schools. Not given in 1927.



# LIBRARY ECONOMY

ASSOCIATE PROFESSOR, GERTRUDE BUCKHOUS (Chairman). ASSISTANT PROFESSOR, WINNIFRED FEIGNER. INSTRUCTORS, WINONA ADAMS, BERTHA KRAUSS, BETSY M. RALSTON.

Students who do major work in Library Economy are required to have a minimum of 40 credits in this department. All students who major or minor in Library Economy are required to take courses 40 and 78 ab in English, courses in history, English and economics, and general courses in the sciences and education. A course in the history and appreciation of art is advised. A reading knowledge of French, German, and Spanish is desirable.

Ability to use the typewriter is necessary.

Four types of libraries are available for practice and laboratory work in connection with the various courses in this department: the University Library, the Missoula County Library, the Missoula City Library, and the Missoula County High School Library. These libraries offer an unusual opportunity for students to obtain practical experience in various phases of library work under careful supervision of trained librarians.

Students who prepare for major or minor work in this department are required, either in their freshman or sophomore year, to do field work in some county or city library of the state which contains 10,000 volumes. Not less than fifteen hours a week for a period of not less than twelve weeks must be spent in this work. A statement as to the character and quality of the work done by the student, signed by the librarian of the library in which the field work is done, must be submitted. No credit will be given for this work.

Senior examinations will not be required of students who do major work in Library Economy.

**11. General Reference.** 1 Q. Autumn. Spring. 1 cr. Open to all students. Lectures, reading, and reference work. Lectures will be given on the following topics: The arrangement of the library and the privileges granted students, the use and the value of the card catalogue, dictionaries and encyclopedias, Poole's Index and periodical literature, classification, cataloguing, atlases and gazetteers, note-taking, book-binding and care of books, government publications, reference books on English and American literature, history, and science. One lecture or recitation a week and one laboratory period. Miss Feighner.

**12. Reference.** 1 Q. Autumn. 3 cr. Prerequisite, junior standing and consent of instructor. The purpose of this course is to give a working knowledge of the standard reference books. Miss Buckhous.

**14. Classification.** 1 Q. Autumn. 2 cr. Prerequisite, junior standing and consent of instructor. A study of the decimal system with practice in classifying selected books. Miss Krauss.

**15. Library Economy.** 1 Q. Winter. 2 cr. Prerequisite, junior standing and consent of instructor. Specific problems in library economy, planning, equipment, business methods, records, etc. Miss Buckhous, Miss Feighner.

**19. Cataloguing.** 1 Q. Winter. 3 cr. Prerequisite, 14. Principles of dictionary cataloguing and methods used in the average library, with practice in cataloguing books. Miss Krauss.

**23. Reference.** 1 Q. Spring. 3 cr. Prerequisite, 12. Principles of reference work. Various types of reference books are studied. Practical problems are assigned and worked out. Miss Buckhous.

**26abc. Library Practice.** 3 Q. Autumn, winter, spring. 1, 2 or 3 cr. each quarter. Summer. 1 or 2 cr. Open to students of sophomore standing. 26a limited to 2 credits. Not more than 4 credits may be earned in one year. Specifically planned practice work under the supervision of the librarians of the city, county, high school, and university libraries. Miss Feighner.

**29. Classification.** 1 Q. Spring. 3 cr. Prerequisite, 19. History and principles of classification with comparison of the more common systems. Books presenting difficult problems in classification and assignment of subject headings are taken up in this course. Miss Krauss.

**38. Library Administration.** 1 Q. Autumn. 3 cr. Prerequisite, 15. Statistics, budgets, schedules, rules and regulations, reports, publications, publicity, and other minor problems of administration. Miss Buckhous, Miss Feighner.

**39. Book Selection.** 1 Q. Autumn. 2 cr. Prerequisite, 15 credits in Library Economy. Principles, methods, and sources of information in the choice of books. Miss Buckhous.

**40. Public Documents.** 1 Q. Autumn. 3 cr. Prerequisite, senior standing. A study of federal, state, and municipal organizations and official publications. Miss Buckhous.

**41. Classification and Cataloguing.** 1 Q. Winter. 3 cr. Prerequisite, 29. Classification and cataloguing of material which illustrates the more difficult problems of classification and cataloguing. Students do practical cataloguing as assistants to the cataloguer. Miss Krauss.

**47. Reference.** 1 Q. Spring. 3 cr. Prerequisite, 23. Reference work under the supervision of the reference librarian. Methods in research and the literature of the more important lines of work.

**48. Library Administration.** 1 Q. Winter. 2 or 3 cr. Prerequisite, 38. City, county, and high school library administration and organization.

**54. Trade Bibliography.** 1 Q. Spring. 2 cr. Prerequisite, 39. English and American book-trade, bibliography and related bibliographical aids. This will also include a consideration of continental book-trade bibliography.

**55. Book Selection.** 1 Q. Spring. 2 cr. Prerequisite, 39.

**57. Book Buying and Ordering.** 1 Q. Winter. 2 cr. Prerequisite, 54, may be taken simultaneously. Two lectures, one laboratory. Book funds, discounts, importation, book dealers, and the routine of ordering. Miss Buckhous.

**59. Special Lectures.** 1 Q. Spring. 2 cr. Open to seniors. Newspaper publicity, the public library and the community, library instruction in high schools. Members of the University faculty and librarians of the state.

**The following course is offered in the summer quarter only:**

**S13. Library Economy, Organization and Reference.** 1 Q. Summer. 2 cr. Problems in library economy, planning, equipment, records, etc.; the ordering of books, their preparation for the shelves; loan system, classification and cataloguing. Reference books used in high school and small libraries. Miss Feighner.

# MATHEMATICS

PROFESSORS, N. J. LENNES (Chairman), A. S. MERRILL (on leave).  
ASSISTANT PROFESSOR, E. F. A. CAREY. INSTRUCTOR, ROBERT MORRIS.  
ASSISTANT, ELIZABETH FLOOD.

Students who do major work in this department are required to have a minimum of 45 credits. This should include courses 12, 13, 21, 22, 23, and 24. The remaining credits should be selected in consultation with the instructors giving the courses which the student proposes to select. Courses 10, 11, and A 11 cannot be counted as part of the requirements for a major in Mathematics.

Advanced students may register for special work to be carried on informally under the advice of one of the instructors. Credit for such work will be assigned in proportion to the amount and quality of the work.

The mathematics library contains complete sets of all the American mathematical journals, and complete sets of several of the most important foreign journals, such as Crelle, Annalen, Liouville, Fortschritte and others. The current volumes of all the important mathematical journals are in the library. Important new books are constantly added.

Courses 11, 14, 17, 31, 101, 103, 104, 125, 126 are given alternate years as indicated. All other courses with numbers above 100 are given from time to time as demand arises.

The regular senior examinations are not required of those who graduate with mathematics as a major.

**10. Intermediate Algebra.** 1 Q. Autumn. Winter. 5 cr. Summer. 4 cr. Prerequisite, 1 entrance unit of Algebra. For students entering with only one year of Algebra this is a prerequisite for all other courses in Mathematics. Students entering with  $1\frac{1}{2}$  units of Algebra cannot take course 10 with credit. Mr. Lennes, Mr. Merrill, Mr. Carey.

**11. Solid Geometry.** 1 Q. Winter. 5 cr. Prerequisite, Mathematics 10, and one entrance unit in Plane Geometry. Given in 1926-27, and in alternate years. Mr. Lennes, Mr. Merrill, Mr. Carey.

**12. Survey of College Mathematics.** 1 Q. Autumn. Winter. Spring. 5 cr. Summer. 4 cr. Prerequisite, 1 entrance unit of Algebra and 1 entrance unit of Plane Geometry and Mathematics 10 or equivalent. A prerequisite for all courses in Mathematics except courses 10, 15a, 15b, in some cases 20a (see prerequisites for 20a), and, in the case of students registered in the School of Forestry, for course 13. Mr. Lennes, Mr. Merrill, Mr. Carey.

**13. Plane Trigonometry.** 1 Q. Autumn. Winter. Spring. 5 cr. Prerequisite, Mathematics 10 or equivalent. Students not enrolled in the School of Forestry are required to have had course 12. Students who present entrance credit in Trigonometry can not take this course with credit. Mr. Lennes, Mr. Merrill, Mr. Carey.

**14. Spherical Trigonometry.** 1 Q. Winter. 5 cr. Prerequisite, Mathematics 13 or equivalent, and Mathematics 12. Given in 1927-28, and in alternate years. Mr. Lennes, Mr. Merrill, Mr. Carey.

**16. College Algebra.** 1 Q. Winter. 5 cr. Prerequisite, Mathematics 12. The advanced part of the entrance Algebra should be taken not earlier than the third year of the high school course. Mr. Lennes, Mr. Merrill, Mr. Carey.

**17. Strength of Materials.** 1 Q. Winter. 5 cr. Prerequisite, Mathematics 13. Given in 1927-28, and in alternate years. Mr. Carey.

**20a. Mathematics of Investment, Elementary Course.** 1 Q. Spring. 5 cr. Prerequisite, 1 unit of entrance Algebra and Mathematics 10 and 12; or  $1\frac{1}{2}$  units of entrance Algebra and Mathematics 12; or 1 unit of entrance Algebra, 1 unit of Plane Geometry, credit in Trigonometry, either as entrance or in the University, and Mathematics 10. Mathematics 20a may not be taken for credit by those who have had 25 or more credits in Mathematics in the University. Mr. Lennes, Mr. Merrill, Mr. Carey.

**20b. Mathematics of Investment, Advanced Course.** 1 Q. Autumn. 5 cr. Prerequisite, Mathematics 20a, or 25 credits in the department of Mathematics. Mr. Merrill.

**21. Plane Analytic Geometry.** 1 Q. Winter. Spring. 5 cr. Prerequisite, Mathematics 13 or equivalent, and Mathematics 12. Mr. Lennes, Mr. Merrill, Mr. Carey.

**22. Differential Calculus.** 1 Q. Autumn. 5 cr. Prerequisite, Mathematics 21. Mr. Lennes, Mr. Merrill, Mr. Carey.

**23. Integral Calculus.** 1 Q. Winter. 5 cr. Prerequisite, Mathematics 22. Mr. Lennes, Mr. Merrill, Mr. Carey.

**24. Advanced Calculus.** 1 Q. Spring. 5 cr. Prerequisite, Mathematics 23. Mr. Lennes, Mr. Merrill, Mr. Carey.

**25. Statistics.** 1 Q. Spring. 4 cr. Admission on consultation with the instructor. Mr. Merrill.

**31. Teaching of Secondary Mathematics.** 1 Q. Spring. 5 cr. Prerequisite, consent of instructor. Given in 1926-27, and in alternate years. Mr. Lennes.

#### For Undergraduates and Graduates

**101. Ordinary Differential Equations.** 1 Q. Spring. 5 cr. Prerequisite, Mathematics 23. Given in 1927-28 and in alternate years. Mr. Carey.

**102. Partial Differential Equations.** 1 Q. Winter. 5 cr. Prerequisite, Mathematics 101. Mr. Lennes, Mr. Merrill, Mr. Carey.

**103. Synthetic Projective Geometry.** 1 Q. Winter. 5 cr. Prerequisite, Mathematics 21. Given in 1926-27, and in alternate years. Mr. Merrill.

**104. Theory of Equations.** 1 Q. Winter. 5 cr. Prerequisite, Mathematics 22. Given in 1927-28, and in alternate years. Mr. Lennes, Mr. Merrill, Mr. Carey.

**105. Theory of Determinants.** 1 Q. 5 cr. Prerequisite, Mathematics 12. Mr. Lennes, Mr. Merrill, Mr. Carey.

**106. The Teaching of Arithmetic.** 1 Q. Summer. 3 cr. Prerequisite, consent of instructor. Deals with historical and present aspects of the subject. Particular attention is paid to standard tests and measurements of arithmetic ability. Mr. Lennes.

**125. Solid Analytic Geometry.** 1 Q. Autumn. 5 cr. Prerequisite, Mathematics 22. Given in 1925-26, and in alternate years. Mr. Lennes, Mr. Carey.

**126a. Analytic Mechanics.** 1 Q. Autumn. 5 cr. Prerequisite, Mathematics 23. Given in 1926-27, and in alternate years. Mr. Carey.

**126b. Analytic Mechanics.** 1 Q. 5 cr. Prerequisite, 126a. Given in 1926-27, and in alternate years. Mr. Lennes, Mr. Merrill, Mr. Carey.

### For Graduates

**240a. Functions of a Real Variable.** 1 Q. 5 cr. Mr. Lennes.

**240b. Real Function Theory.** 1 Q. Spring. 5 cr. Subject to demand. Mr. Lennes.

**241. Functions of a Complex Variable.** 1 Q. 5 cr. Mr. Lennes, Mr. Merrill, Mr. Carey.

**242. Fundamentals of a Complex Variable.** 1 Q. 5 cr. Prerequisite, Mathematics 241. Mr. Lennes, Mr. Merrill, Mr. Carey.

**243. Vector Analysis.** 1 Q. 5 cr. Mr. Carey.

**245. Theory of Sets of Points.** 1 Q. 5 cr. Mr. Lennes.

**246. Advanced Projective Geometry.** 1 Q. Spring. 5 cr. Prerequisites, Elementary projective geometry and a certain mathematical maturity. Subject to demand. Mr. Lennes.

### Astronomy

**A 11. Descriptive Astronomy.** 1 Q. Spring. 5 cr. Mr. Merrill.

**A 101. Celestial Mechanics.** 1 Q. Spring. 5 cr. Prerequisite, Mathematics 101 and 126a. Mr. Merrill.

# MILITARY SCIENCE AND TACTICS

PROFESSOR, FRANK W. MILBURN (Major, Infantry, D. O. L.), ASSISTANT PROFESSORS, RALPH M. CAULKINS (Captain, Infantry, D. O. L.), HAROLD J. LACROIX (1st Lieutenant, Infantry, D. O. L.). ASSISTANTS, MAYWOOD KIRKWOOD (Sergeant, DEML), CLARENCE W. PETERSON (Sergeant, DEML).

The University maintains an infantry unit of the Reserve Officers' Training Corps, senior division, organized under authority of the National Defense Act.

"The primary object of the Reserve Officers' Training Corps is to provide systematic military training at civil educational institutions for the purpose of qualifying selected students of such institutions as reserve officers in the military forces of the United States. It is intended to attain this object during the time that students are pursuing their general or professional studies with the least practicable interference with their civil careers, by employing methods designed to fit men, physically, mentally, and morally, for pursuits of peace as well as pursuits of war. It is believed that such military training will aid greatly in the development of better citizens. It should be the aim of educational institutions to maintain one or more units of the Reserve Officers' Training Corps in order that in time of national emergency there may be instantly available a large number of educated men, physically efficient and trained in the fundamentals of military science and tactics and fitted to lead intelligently the units of the armies upon which the safety of the country will depend."—Extract, Special Regulations, No. 44, War Department.

Every effort is made to develop the initiative and other qualities of leadership necessary for success in any walk of life. This is accomplished by requiring students to exercise command, both on the drill field and in the class room, and by lectures on the theory of command and leadership.

All resident male students of freshman and sophomore standing are required to take the basic R. O. T. C. course except:

1. Students who have reached the age of 27 years at the beginning of the quarter.
2. Students enrolled for less than eight (8) quarter credits.
3. Students granted permission to postpone military drill or substitute other courses because of physical disability.
4. Students who have fulfilled the following requirements of basic training:
  - (a) Two years in a senior division of the R. O. T. C.
  - (b) Three years in a junior division of the R. O. T. C.

(c) Two Citizens' Military Training Camps.

(d) One enlistment in the National Guard provided a "Statement of Service," signed by a commissioned officer, is approved by the Professor of Military Science and Tactics.

Note: Two years in a junior division of the R. O. T. C. will operate to exempt a student from the first basic course. Completion of the Basic Red course in a C. M. T. C. will operate to exempt a student from the first year basic course. Completion of the Advance Red course in a C. M. T. C. will exempt a student from the second year basic course.

5. Students who have served in any branch of the Army or Navy.

Students who have completed the Basic Course are eligible to take the Advanced Course which covers two additional years. Before being admitted to the Advanced Course they must execute the following written agreement:

Missoula, Montana,

(Date)

In consideration of commutation of subsistence to be furnished me in accordance with law, I hereby agree to continue in the Reserve Officers' Training Corps during the remainder of my course in the University of Montana (not to exceed two years), to devote six hours per week during such period to the training prescribed and to pursue the course of camp training during such period, prescribed by the Secretary of War.

(Sig.).....

Students taking the Advanced Course are paid commutation of subsistence for one ration, an amount which varies from time to time, but which is about thirty cents per day. This amount, which is paid quarterly, is paid from the time a student signs the agreement until he graduates, except during the period of one R. O. T. C. camp which each advanced course student is required to attend. This camp should be attended between his junior and senior or sophomore and junior years. He receives transportation, subsistence, and pay at the rate of seventy cents per day while attending camp.

The Government furnishes each member of the R. O. T. C. with one uniform consisting of the following:

- 1 belt, waist.
- 1 breeches, wool pair.
- 1 coat, wool O. D. with collar ornaments.
- 1 shirt, wool O. D.
- 2 chevrons, pairs for each non-commissioned officer.
- 1 cap O. D. with insignia.



1 leggins, spiral pair.

1 tie, black.

2 insignia, R. O. T. C.

The uniform should be drawn before classes start and must be turned in at the end of the year before the student receives credit from the Registrar. Lost articles must be paid for by the student. Students withdrawing from school or dropping Military Science for any reason must turn in their uniform before leaving.

### Basic Course

#### Required of Freshmen and Sophomores

**11a. Military Science and Tactics.** 1 Q. Autumn. 1 cr. Practical and theoretical, three hours per week. Command and leadership. Military courtesy and military hygiene and first aid.

**11b. Military Science and Tactics.** 1 Q. Winter. 1 cr. Practical and theoretical, three hours per week. Rifle marksmanship, physical drill and command and leadership.

**11c. Military Science and Tactics.** 1 Q. Spring. 1 cr. Practical and theoretical, three hours per week. Command and leadership.

**12a. Military Science and Tactics.** 1 Q. Autumn. 1 cr. Practical and theoretical, three hours per week. Command and leadership and scouting and patrolling.

**12b. Military Science and Tactics.** 1 Q. Winter. 1 cr. Practical and theoretical, three hours per week. Musketry, interior guard duty and automatic rifle.

**12c. Military Science and Tactics.** 1 Q. Spring. 1 cr. Practical and theoretical, three hours per week. Command and leadership.

### Advanced Course

**13a. Military Science and Tactics.** 1 Q. Autumn. 2½ cr. Practical and theoretical, six hours per week. Command and leadership. Military field engineering and military sketching.

**13b. Military Science and Tactics.** 1 Q. Winter. 2½ cr. Infantry weapons. Machine guns.

**13c. Military Science and Tactics.** 1 Q. Spring. 2½ cr. Practical and theoretical, six hours per week. Command and leadership and combat principles.

**14a. Military Science and Tactics.** 1 Q. Autumn. 2½ cr. Practical and theoretical, six hours per week. Command and leadership, infantry weapons (3-inch trench mortar and 37 mm. gun), military law, and rules of land warfare.

**14b. Military Science and Tactics.** 1 Q. Winter. 2½ cr. Practical and theoretical, six hours per week. Military history, administration and combat principles.

**14c. Military Science and Tactics.** 1 Q. Spring. 2½ cr. Practical and theoretical, six hours per week. Command and leadership and combat principles.

# PHYSICAL EDUCATION

PROFESSOR, W. E. SCHREIBER (Chairman). ASSOCIATE PROFESSOR, J. W. STEWART. ASSISTANT PROFESSOR, MARY M. LAUX (Director of Women's Department). INSTRUCTORS, HARRY F. ADAMS, MARION E. BIGELOW. DIRECTOR OF ATHLETICS, J. W. STEWART. ATHLETIC COACH, MAJOR F. W. MILBURN.

The Department of Physical Education consists of all of the physical activities of the University under the following divisions:

1. Division of intercollegiate athletics.
2. Division of intra-mural athletics for women.
3. Division of intra-mural athletics for men.
4. Division of physical training for women.
5. Division of physical training for men.
6. Division of training teachers of Physical Education.

All students taking part in the work of the department are required to take the physical and medical examination provided by the department. This examination is given to every entering student in the freshman or sophomore years. No student is allowed to participate in athletic work of any kind until he or she has been examined by the director of the department.

All freshmen and sophomore men and women are required to take work in the regular classes of the department and all special students enrolled for eight or more credits must report for regular work. (Six credits are required for graduation. Three periods per week for two college years.)

Excuses or exemptions from the departmental requirements are granted only by the head of the department after consultation with the University nurse, the director of the women's department, or personal consultation with the physician in charge of the case.

Regular gymnasium costumes are required of both men and women and these should not be ordered until after consultation with the instructor. When students have their costumes the department may accept them for use in the classes.

## PROFESSIONAL COURSE

The professional course of the department aims to prepare teachers for physical education work and athletic coaching. Under no circumstances does a student begin his major work before the junior year in college. Such students are required to present a minimum of 55 credits in the physical education department for graduation, including courses 11abc and 12abc. They should complete the following courses in the

**Department of Biology:** freshman year, Zoology; sophomore year, Physiology and Hygiene; junior year, Histology; and senior year, Bacteriology. Students are advised to take at least one year's work in Chemistry, this subject being a prerequisite to Bacteriology in the senior year. They should also complete the requirements of the Department of Education for the Certificate of Qualification to Teach. Practice teaching will be correlated with the Department of Education.

Students expecting to take a minor in Physical Education will be expected to complete the following courses in the department in addition to freshman and sophomore Physical Education courses 11 and 12abc, Systems and Methods, 6 credits; School Gymnastics, 4 credits; Advanced Gymnastics, 3 credits; Principles of Coaching, 6 credits; Playgrounds, 4 credits; First Aid, 2 credits; Gymnastic Dancing, 3 credits; and Equipment and Management, 2 credits. The last course is optional.

The Department of Physical Education does not give senior examinations, except to candidates for Honors, but requires every student finishing the work of the professional course to present in outline form a complete synopsis of certain texts dealing with each particular phase of the course.

### ATHLETICS

All intercollegiate athletics are under the supervision of the Faculty Athletic Committee, varsity teams being maintained in football, basketball, baseball and track.

Facilities are provided by the department for participation in athletic work for every member of the student body, intra-mural competition being maintained in football, hockey, basketball, baseball, track, tennis, cross-country running, indoor baseball, boxing, wrestling, handball, gymnastics and swimming.

### PHYSICAL TRAINING—PRACTICAL COURSES

#### Men

**11abc and 12abc. Freshman and Sophomore Physical Training.** 6 Q. Autumn, winter, spring of freshman and sophomore years. Summer. 1 cr. each quarter. Three periods per week. Every student will be expected to have the following courses which will complete the work of freshman and sophomore classes respectively:

One quarter of gymnasium floor work given in the autumn and winter quarters only.

One quarter of gymnastic apparatus work given in the autumn and winter quarters only.

One quarter of swimming given in the fall, winter and spring quarters.

One quarter of track work given only in the spring quarter.

One quarter of competitive games given in the fall, winter and spring quarters.

One quarter of optional work which will be in boxing, fall and winter quarters; wrestling, fall and winter quarters; tennis, spring quarter; fencing, fall and winter quarters; cross-country running, fall quarter; additional quarter in swimming and additional quarter in track.

Final examinations are required in all of the above courses.

Members of the Varsity and Freshman athletic squads may substitute athletic work for any of the required courses. Members of the freshman or sophomore classes who for any reason of physical disability are barred from fulfilling the above requirements may, with the consent of the director, offer two quarters of such work as they are capable of taking to satisfy the above requirements. Choice of this work will be left to the student.

The department reserves the right to require two or more quarters' work of any particular type of any student when in its opinion that particular type of work is particularly needed by that student.

No student will be given the final grade of the department until he has passed the examination in swimming.

### Women

**11abc. Freshman Physical Training.** 3 Q. Autumn, winter, spring, Summer. 1 cr. each quarter. Required of every freshman. Three periods per week.

Physical and medical examination at the beginning of the autumn quarter.

Autumn. Outdoor work in hockey and tennis. Indoor mass class work in Swedish gymnastics, proper walking and standing positions, elementary dancing, apparatus work, and recreative games. Swimming, fencing, basketball, and volley ball.

Winter. Continuation of the indoor work of the autumn quarter with basketball and indoor baseball.

Spring. Outdoor work in baseball, track athletics, tennis, recreative games, and swimming.

**12abc. Sophomore Physical Training.** 3 Q. Autumn, winter, spring. 1 cr. each quarter. Required of every sophomore. Three periods per week.

Autumn. Outdoor work in hockey, tennis, and recreative games. Indoor work in mass class drills, apparatus work, advanced dancing, basketball, swimming and fencing.

Winter. Continuation of the indoor work of the autumn. Basketball, swimming and fencing.

Spring. Outdoor work in baseball, tennis, track, and games. Swimming.

During the freshman year two periods per week will be devoted to practical work and the third to general class work in Health Education. Lectures and talks by members of the department and other instructors in the University, and by state and county health officers. The work of the term will be definitely graded on written examinations on this work as well as the practical work.

No student will be given the final grade of the department until she has passed the examination in swimming.

Students who, in the opinion of the instructors of the department, are physically unable to take the above work in either the freshman or sophomore years may be required to take rest courses.

### Men and Women

**15abc. Advanced Gymnastics.** 3 Q... Autumn, winter, spring. 1 cr. each quarter to major and minor students. Students may enter any quarter. Prerequisite, 12abc, or marked gymnastic ability. Required work of all major and minor students in physical education. Open to all other students in the University without credit.

Autumn. Gymnastic mass floor drills in the German system of gymnastics. Apparatus work and military marching tactics.

Winter. Gymnastic mass floor drills in the Swedish system of marching and gymnastics. Apparatus work.

Spring. Outdoor work in recreative games and athletics.

Throughout the course class leading is required and class work in advanced swimming, diving, and life saving.

### GENERAL ATHLETICS

#### Autumn—For Men

Intercollegiate football. Interclass and intra-college contests in football, handball, association football, and cross-country running.

#### Autumn—For Women

Inter-organization contests in hockey, tennis and baseball. Inter-class and intra-collegiate contests in the same sports.

#### Winter—For Men

Intercollegiate basketball and wrestling. Interclass and intra-collegiate contests in basketball, wrestling, boxing, indoor baseball, swimming, gymnastics, and fencing.

#### Winter—For Women

Inter-organization and interclass contests in basketball, indoor baseball, gymnastics, swimming, and shooting.

#### Spring—For Men

Intercollegiate baseball, track, and tennis. Interclass and intra-collegiate contests in track, baseball, tennis, and handball.

#### Spring—For Women

Inter-organization and interclass contests in track, tennis, baseball, and swimming.

### SUGGESTED CURRICULUM FOR MAJORS

#### FIRST YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Biology 11 .....	5	5	5
English 11a .....	.....	.....	5
History 11ab .....	5	5	.....
Public Speaking 20a .....	.....	.....	5
Language .....	5	5	.....
Physical Education 11 .....	1	1	1
Military Science (men) .....	1	1	1

COURSES IN PHYSICAL EDUCATION

119

SECOND YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Physiology 24ab .....	4	4	.....
Biology 26 .....	.....	.....	3
Psychology 11ab .....	4	4	.....
Anatomy, P. E. 20 .....	4	4	4
English 11b .....	.....	.....	3
Foreign Language or Chemistry 11 or 13 .....	5	5	5
Military Science (men) .....	1	1	1
Physical Education 12 .....	1	1	1

THIRD YEAR

Chemistry 11 or .....	5	5	5
Histology 21 .....	4	4	.....
Education 19-166-18 .....	4	4	3
Anthropometry, P. E. 131 .....	2	.....	.....
Systems and Methods, P. E. 135 .....	3	3	.....
Physical Education 15 .....	1	1	1
Kinesiology, P. E. 136 .....	.....	5	.....
School Gymnastics, P. E. 137 .....	.....	.....	4
Laws of Growth and Development, P. E. 139 .....	.....	.....	1
Physical Diagnosis, P. E. 149 .....	.....	.....	2

FOURTH YEAR

Bacteriology 19 .....	4	4	.....
Education 22-30 .....	4	3	.....
Observation and Teaching .....	A total of 5 hours required during the year		
Principles of Coaching, P. E. 143 .....	2	2	2
Physiology of Exercise, P. E. 148 .....	2	.....	.....
Physical Diagnosis, P. E. 149 .....	.....	*	.....
Corrective Gymnastics, P. E. 141 .....	.....	3	.....
Equipment and Management, P. E. 142 .....	.....	.....	2
Massage, P. E. 146 .....	.....	.....	2
Physical Education 45 .....	1	1	1
Playgrounds, P. E. 134 .....	4	.....	.....
First Aid, P. E. 132 .....	.....	.....	2

\*To be given during the winter quarter for the last time in 1928.

Outline of Professional Courses

**20abc. Human Anatomy.** 3 Q. Autumn, winter, spring. 4 cr. each quarter. First quarter of course given in summer. 4 cr. Required of all sophomore students who expect to major in Physical Education. Not open to freshmen. Studied from skeleton charts, and lectures. Autumn quarter: bones, skeleton, ligaments, and joints. Winter quarter: muscular, circulatory, and lymphatic systems. Spring quarter: digestive, nervous and uro-genital systems, and special senses, and organs of the body. Text, Radasch Manual of Anatomy.

**45abc. Gymnastic Dancing.** 3 Q. Autumn, winter, spring. Summer. 1 cr. each quarter. Prerequisite, 12abc. Open to juniors and seniors who are majors or minors in the department for credit and others with consent of the director without credit. Students may enter any quarter. Folk, gymnastic, and natural dancing given especially from the standpoint of the teacher. In the spring quarter the work is correlated with the annual pageant.

For Undergraduates and Graduates

**131. Anthropometry and Prescription.** 1 Q. Autumn. 2 cr. Prerequisite, 20abc. A study of the measurements and tests of the human body, methods of making them, how to chart and how to use these charts in prescribing work for the individual.

**132. First Aid.** 1 Q. Spring. Summer. 2 cr. Prerequisite, students majoring in Physical Education, 20abc; students majoring in Forestry, junior standing; all others, senior standing. Division of this course will be made to suit the needs of students in the department of

Physical Education, in the School of Forestry, and those desiring it for information purposes. Accidents of the human body and how to treat them.

**134. Playgrounds.** 1 Q. Autumn. 4 cr. Summer. 4 cr. Open only to juniors or seniors. History, theory of play, construction, equipment, problems, management, methods of conducting, and some practical work in supervision.

**135ab. Systems and Methods.** 2 Q. Autumn, winter. 3 cr. each quarter. Open only to major and minor students. Prerequisite, 12abc. A study of the various systems of Physical Education and their place in the physical training of the American schools and the practical application in methods of handling gymnastic class work.

**136. Kinesiology.** 1 Q. Winter. 5 cr. Open only to major students. Prerequisite, 20ab. A study of the anatomical mechanism of the most common and representative types of gymnastic movements and positions with the view of developing subjective control.

**137. School Gymnastics.** 1 Q. Spring. Summer. 4 cr. Prerequisite, 135. Methods of handling gymnastics in the graded and high school. Types of work suitable for each grade. Progression of work.

**139. Laws of Growth and Development.** 1 Q. Spring. 1 cr. Prerequisite, 131. Open to major students only. A study of the growth and development of the child from birth to adult years and the application of physical education to these laws.

**141. Corrective Gymnastics.** 1 Q. Winter. 3 cr. Prerequisite, 137. Open only to major students. A study of the prevention and correction of deformities in the child.

**142. Equipment and Management.** 1 Q. Spring. 2 cr. Open only to major or minor students. A study of the best methods of construction of gymnasium, athletic field, swimming pools, tennis courts, running tracks, etc. and their management in schools and colleges.

**143abc. Principles of Coaching.** 3 Q. Autumn, winter, spring. 2 cr. each quarter. Summer. 1 to 6 cr. Open to juniors and seniors only. Students may enter this course any quarter. Methods of handling athletic teams, theory and practice. The work of the men and women is separate, the men considering football, basketball, baseball, track, and training methods from the standpoint of the coach. The women consider basketball, hockey, indoor baseball, playground ball, volley ball, and association football.

**146. Massage.** 1 Q. Spring. 2 cr. Prerequisite, Physiology of Exercise 148. Open only to major students. The place of massage in medicine and physical education. Methods and use of the various types of massage. Practical application.

**148. Physiology of Exercise.** 1 Q. Autumn. 2 cr. Prerequisite, Physiology 24ab. Open only to major students. A study of the physiological effects of the different types of exercises on the functions of the human body.

**149. Physical Diagnosis.** 1 Q. Spring. 2 cr. Prerequisite, 131. Open only to major students. Examination of the human body for external signs of disease, including the examination of the heart, lungs, eyes, ears, nose, throat and skin.

**The following course given in summer only:**

**S2. Athletic Training.** 1 Q. Summer. 1 cr. Methods of handling and conditioning of the athlete.

# PHYSICS

PROFESSOR, G. D. SHALLENBERGER. ASSISTANT PROFESSOR, E. M. LITTLE. ASSISTANT, JOSEPH GIARRATANA.

To complete a major in Physics, a student must earn 40 credits in this department. By way of preparing for advanced courses, a student should take either Physics 11 in the freshman year or Physics 20 in the sophomore year. If the former alternative is chosen, course 11 should be followed by at least 4 credits in Physics 31 in the sophomore year.

Essential courses offered by other departments should be elected as follows: trigonometry in the winter, and analytic geometry in the spring quarter of the freshman year; calculus throughout the sophomore year; general or inorganic and qualitative chemistry in the sophomore year, if Physics 11 is taken in the freshman year; otherwise chemistry should be taken in the freshman year. Students looking forward to high school teaching should elect 8 credits in Psychology 11, and courses 18, 19, 22, 26, 30, and 166 in the Department of Education.

The Department of Physics does not give senior examinations, except to candidates for honors.

Students who are planning to enter the profession of engineering should elect course 20 and such other courses as, upon consultation with the department, are deemed advisable.

**11ab. General Physics I.** 2 Q. Autumn, winter. 5 cr. each quarter. Three hours of classroom work and two double periods of laboratory work per week. Open to freshmen and sophomores only. Students may not receive credit for both Physics 11ab and 20ab. No formal prerequisites for 11a, but a working ability in high school mathematics is assumed. 11a is prerequisite for 11b. Having had these two courses, one should take Physics 20c to complete a year's work in physics or to satisfy the premedical requirement in this subject.

- a. Mechanics (Autumn).
- b. Sound, Electricity, and Magnetism (Winter).

**12. Household Physics.** 1 Q. Autumn. 5 cr. Three hours of classroom work and two double periods of laboratory per week. Open to freshmen and sophomores only. No formal prerequisites, but a working ability in high school mathematics is assumed. This is a course for home makers and Home Economics students. The laws and applications of physics which are met in home making activities are studied.

**15. Radio Communication.** 1 Q. Spring. 2 cr. The aim of this course is to furnish those who take it a general view of radio phenomena. The elementary theory will be studied, and a considerable portion of the time will be spent in the laboratory investigating the parts, and their functions, of transmitting and receiving equipment.



**20abc. General Physics II.** 3 Q. Autumn, winter spring. 5 cr. each quarter. Three hours of classroom work and two double periods of laboratory work per week. Open to sophomores, juniors, and seniors. Trigonometry or mathematics 12 is prerequisite, and high school physics is desirable for 20a. 20a is prerequisite for 20b, while either 20b or 11b is prerequisite for 20c. These courses are more mathematical than 11a and b; they provide a technical viewpoint of physics and satisfy engineering school requirements in general physics.

a. Mechanics (Autumn).

b. Sound, Electricity, and Magnetism (Winter).

c. Heat and Light (Spring).

**22. General Physics** (briefed course). 1 Q. Winter. 5 cr. Three hours of classroom work and two double periods of laboratory work per week. Open to sophomores, juniors, and seniors. Prerequisite, trigonometry or mathematics 12. Students may not receive credit in this course and in Physics 20a or 11a. The subject matter of this course consists of those topics in Physics which are of unique interest to Forestry and Geology students.

**31abc. Junior Laboratory.** 3 Q. Autumn, winter, spring. 2 to 3 cr. each quarter. Students may enter course any quarter. Prerequisite, Physics 11 or 20. Experimental or theoretical work in advanced general physics. The work given will be adapted to the needs of the students registering for the course.

**41. Acoustics.** 1 Q. Spring. 5 cr. Three hours of classroom work and two double periods of laboratory per week. Prerequisite, Physics 11a or 20a. The subject matter includes the physical basis of harmony and tone quality, auditorium acoustics, and theory of musical instruments.

**114. Electricity.** 1 Q. Spring. 3 cr. A lecture and textbook course. Prerequisites, Physics 11 or 20 and integral calculus.

**115. Electrical Measurements.** 1 Q. Spring. 2 cr. A laboratory course. Prerequisite, Physics 11 or 20 and integral calculus. Ordinarily accompanies Physics 114.

**122. Light.** 1 Q. Winter. 3 cr. A lecture and textbook course. Prerequisites, Physics 11 or 20 and integral calculus.

**123. Optical Measurements.** 1 Q. Winter. 2 cr. A laboratory course. Prerequisites, Physics 11 or 20 and integral calculus. Ordinarily accompanies Physics 122.

**131. Heat.** 1 Q. Autumn. 5 cr. A lecture and textbook course. Prerequisites, Physics 11 or 20 and integral calculus.

**141. Sound.** 1 Q. Any quarter. 3 cr. A lecture and textbook course. Prerequisites, Physics 11 or 20 and integral calculus.

**152. Electron Theory and Atomic Structure.** 1 Q. Winter. 5 cr. A lecture and textbook course in which a study is made of the theory of some of the recent discoveries in physics. Prerequisites, Physics 20 and Mathematics 23.

**154. Modern Physics.** 1 Q. Spring. 5 cr. A continuation of Physics 152. Prerequisites, Physics 114, 122, and 152.

**180. Physics Seminar.** 1 Q. Spring. 1 cr. A library and discussion course. Required of physics majors.

**The following course will be given in the 1927 Summer Session:**

**S5. Principles of Physical Science.** First term (three weeks). 1½ cr. Principles and application of force, motion, momentum, energy, heat, sound, light, magnetism, and electricity; and a consideration of the nature of light, matter, and electricity.

# PSYCHOLOGY AND PHILOSOPHY

PROFESSOR. FRANKLIN O. SMITH (Chairman). ASSISTANT PROFESSORS. WALTER R. AMES, ERNST A. ATKINSON.

Students who do major work in this department must have 45 credits in Psychology, including: General Psychology 12, Experimental Psychology 6, Social Psychology 5, Psychology of Child Development 5, Abnormal Psychology 5. In addition, a major student in psychology should acquire some knowledge of mathematics and physics. For those who wish to pursue psychological studies further, a reading knowledge of German and French is essential.

The Department of Psychology does not give senior examinations, except to candidates for honors.

## For Undergraduates

**11ab. General Psychology.** 2 Q. Autumn, winter. 8 cr. Continuous. The work covered in the two quarters will be combined in one during the summer. 4 cr. Prerequisite, sophomore standing. A general course designed as an outline study of the whole subject, and an introduction to the special courses in psychology. Mr. Smith, Mr. Ames, Mr. Atkinson.

**11c. Advanced General Psychology.** 1 Q. Spring. 4 cr. Prerequisite, 11a, or 11b, or S11. A study of the principles of human experience and conduct with their broader implications in the light of the facts presented in 11ab. Mr. Smith.

**12ab. Experimental Psychology.** 2 Q. Autumn, winter. 3 cr. each quarter. Prerequisite, one quarter of General Psychology. Two two-hour laboratory periods and one lecture with reading and discussion each week. This course aims to familiarize the student with laboratory methods and apparatus in the study of some of the laws and mental processes and their application. Mr. Atkinson.

**13. Psychology of Child Development.** 1 Q. Spring. 5 cr. Prerequisite, Psychology 11ab. A study of mental evolution with special emphasis upon the development of the human mind in the race and the individual. Particular attention is given to the development of the child in which comparative studies are made with animal intelligence and behavior. Mr. Smith.

**14. Social Psychology.** 1 Q. Spring. 5 cr. Summer. 4 cr. Prerequisite, Psychology 11ab. A study of the social aspects of mental life and of the psychological processes of groups. Correlated courses of special value are Sociology, Law, Business Administration, Journalism, and Education. Mr. Smith.

**31. Psychology of Religion.** 1 Q. Spring. 4 cr. Prerequisite, two quarters of Psychology 11. Given in 1925-26. Mr. Smith.

**32. Psychology of Business.** 1 Q. Spring. 5 cr. Prerequisite, Psychology 11a. Mr. Atkinson.

**50. Logic.** 1 Q. Spring. 5 cr. Prerequisite, sophomore standing. Mr. Atkinson.

**51. Ethics.** 1 Q. Spring. 5 cr. Prerequisite, sophomore standing. Mr. Smith.

**52. Introduction to Philosophy.** 1 Q. Autumn. 3 cr. Prerequisite, sophomore standing. Statement of philosophical problems; explanation of terms; purpose and methods of the study of philosophy. History of Greek Philosophy. Given in 1926-27, and in alternate years. Mr. Smith.

**53. History of Modern Philosophy.** 1 Q. Winter. 3 cr. A continuation of course 52, but may be taken independently by those who have had course 11. Given in 1925-26. Mr. Smith.

#### For Undergraduates and Graduates

**101. Advanced Experimental Psychology.** 1 Q. Winter. 3 cr. Prerequisite, Psychology 12. One lecture and four hours a week of laboratory work. A study of special problems of quantitative psychology. Mr. Smith.

**102abc. Problems in Psychology.** 3 Q. Autumn, winter, spring. Summer. Credit according to work done. Students may enter course any quarter. Prerequisite, Psychology 11ab or application to chairman of the department. Mr. Smith, Mr. Atkinson.

**103. Applied Psychology.** 1 Q. Autumn. 5 cr. Prerequisite, Psychology 11. A study of the general principles of applied psychology with special reference to vocational and avocational psychology; the psychology of law, medicine, industry; music, religion, art, literature, etc. Mr. Smith, Mr. Atkinson.

**104. Systematic Psychology.** 1 Q. Winter. 5 cr. Prerequisite, Psychology 11ab. A study of the psychology of other William James and other contemporary psychologists.

**115. Abnormal Psychology.** 1 Q. Spring. 5 cr. Summer. 3 cr. Open to juniors, seniors, and graduates who have had Psychology 11ab. A study of abnormal phenomena and mental diseases, including sleep and dreams, the subconscious, hypnotism, psychoanalysis, hysteria, psychasthenia, neurasthenia, dementia praecox, and other functional diseases. Mr. Atkinson.

**130. Mental Measurements.** 1 Q. Spring. Summer. 4 cr. Prerequisite, two quarters of General Psychology or the equivalent. Open only to advanced undergraduate and graduate students. Designed for those preparing for work in education and social service. A historical and critical study of the methods of measuring intelligence and efficiency. Lectures, discussion, reports, and demonstrations. Mr. Ames.

#### For Graduates

**201. Research.** Any quarter. Credits variable. Prerequisite, Psychology 11ab and 130 or equivalent. Work on selected problems under direction. Mr. Smith, Mr. Atkinson, Mr. Ames.

**Colloquium.** In cooperation with members of the faculty of other departments in the University. No credit. Meets twice each month from October to May. Open to members of the faculty and graduate and senior students.

The object of the Colloquium is to afford opportunity for the study and discussion of topics of general interest in a more comprehensive and inclusive manner than is possible in the restricted departmental courses.

# Public Service Division

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The University is actuated by the idea that, so far as its resources permit, it should perform any public service for which it is more naturally adapted than other existing agencies. For this reason it undertakes various extension activities, such as correspondence study, extension lecturing, etc.

## DEPARTMENT OF CORRESPONDENCE STUDY

During the past year the University has offered the following correspondence courses:

### **Biology**

Entomology, Eugenics, Physiology, General Hygiene, Evolution.

### **Business Administration**

Commercial Geography, Elementary Accounting, Advanced Accounting, Commercial Law, Income Tax Procedure, C. P. A. Problems, Credits and Collections, Corporation Finance, Foreign Trade.

### **Economics and Sociology**

Principles of Economics, Money and Banking, Foreign Trade and Exchange, Public Finance, Introduction to Sociology, Railway Transportation.

### **Education**

School Management, History of Education, Principles of Education, Educational Psychology, School Hygiene, The High School, School Supervision, History of American Education, Educational Administration, Observation and Teaching.

### **English**

Freshman Composition, Advanced Composition, American Literature, Literary Writing, Social Thought of Literary Men, English Novelists, Masters of Fiction, Contemporary Literature, Creative Writing, Problems in Teaching Composition, Teaching Literature.

### **Geology**

General Geology.

### **History and Political Science**

Political and Economic Progress, English History, North American Colonies, American Government and Politics, State and Local Government, United States History, Contemporary United States History, Europe in the Nineteenth Century. Studies in History.

### Home Economics

Problems in Nutrition, Advanced Dietetics, House Planning and Furnishing, Textiles.

### Latin

Elementary Latin, Intermediate Latin, Writing Latin (Elementary), College Freshman Latin, The Odes and Epodes of Horace.

### Mathematics

Elementary Algebra, Plane Geometry, Intermediate Algebra, Solid Geometry, College Algebra, Plane Trigonometry, Mathematics of Investments, Analytic Geometry, Differential Calculus, Integral Calculus, The Teaching of Arithmetic.

### Modern Languages

Elementary French, Intermediate French, Advanced French, General Survey of French Literature, Advanced French Grammar and Composition, Elementary German, Intermediate German, Advanced German, Advanced German Grammar and Composition, Elementary Spanish, Intermediate Spanish, Advanced Spanish, Advanced Spanish Composition, Spanish Drama, Spanish Novel, Contemporary Spanish Literature, Commercial Spanish, Problems in the Teaching of Modern Language.

### Music

History of Music.

### Pharmacy

Materia Medica, Dispensing, Materia Medica and Prescription.

### Psychology

General Psychology, Social Psychology, Abnormal Psychology, Psychology of Religion, Mental Measurements, Ethics.

### Correspondence Study Fees

The fees for correspondence courses are payable in advance.

For each quarter credit.....	\$2.50
To cover cost of postage on returned assignments, per course.....	\$1.00

In case books are borrowed from the University Library, the required deposit of \$4.00 should be made directly to the University Librarian. When the student no longer desires books, the deposit is returned less postage and fines for delay in returning books.

### **PUBLIC LECTURES**

The services of members of the University staff may be secured for public addresses and lectures by application to the Public Service Division.

Owing to financial limitations the State University has no separate staff for public service work, but is compelled to call upon the members of the regular staff for extra-mural services. For this reason it is usually necessary to plan some time in advance for any work which calls staff members away from the institution for any considerable length of time.

It is the policy of the University to fix the charges for public service work without any reference to geographical location within the state; that is, in general the charge for any particular kind of service will be the same no matter where the service is rendered. A list of lectures and subjects available will be sent on application to the Public Service Division.

### **BUREAU OF INFORMATION**

The Bureau of Public Information was established in October, 1913, for the purpose of furnishing information to citizens of the state of Montana on various subjects. Such information is furnished free, except that each letter of inquiry must be accompanied by a stamp in order to pay return postage. It is believed that this effort on the part of the University to aid citizens of the state has proved its value, and every person seeking information of any character whatever is therefore urged to take advantage of this offer of help.

## Premedical Course

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The State University offers courses which prepare students for entrance to any medical school in the United States. The entrance requirements to such schools as adopted by the Council on Medical Education of the American Medical Association are as follows:

**High School.** Students must have completed a four-year course of at least fifteen units in a standard accredited high school or other school of standard secondary grade, or have passed examinations for unconditional entrance to college. The subjects taken in high school should include if possible at least two years' work in Latin.

**College.** A minimum requirement of two years of collegiate work extending through thirty-two weeks each and comprising ninety quarter credits. Many of the best medical schools, however, require three years of preparatory work and a few require graduation from college.

### PREMEDICAL CURRICULUM

The following courses will satisfy the requirements of all medical schools requiring only two years of preparatory work:

**Chemistry:** Fifteen credits in general chemistry which may include qualitative analysis; ten credits in organic chemistry.

**Biology:** Fifteen credits in zoology or in zoology and botany, but not in botany alone.

**Physics:** Fifteen credits in general physics.

**English:** Nine credits in composition.

**French or German:** A reading knowledge of one modern language. This includes at least one year's college work in addition to high school credits.

**Electives:** To make ninety credit hours electives should be selected from non-science courses in general.

These requirements will be fulfilled in the University by completing Chemistry 11 or 13 and Chemistry 101, Biology 11, Physics 11, English 11ab and French 11 and 13.

In a few cases the above courses somewhat more than satisfy the requirements; but many medical schools require other courses in addition. Students should plan their premedical work to fit the demands of the particular school they wish to attend.

All medical schools of high standing urge students to undertake a more thorough preparation than the minimum course outlined above. If students wish to carry out this recommendation they may do major

work in any department of the College of Arts and Sciences. The courses mentioned above as essential entrance requirements must be taken; they may fulfill major department requirements or satisfy restricted electives. Among the free electives of the third or fourth years it is suggested that further work in biology and courses in psychology, biochemistry, English and modern language be taken.



# Graduate Study

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The State University of Montana has an established system of graduate study. Every graduate student is required to do private reading and study covering a wide range in the field of his special work; this reading is supplemented by lectures and laboratory work and is under the direction of the head of the University department in which the advanced work is being done.

The administration of graduate study is in the hands of the members of the University faculty who offer advanced courses. The details of management are vested in a faculty standing committee.

## Admission

For admission to graduate study in work leading to an advanced degree, the student must hold a first degree from some university or college of recognized standing. Admission to advanced work in special departments or schools may be obtained only by those who have done the requisite undergraduate work in these departments or schools.

In order to be enrolled in graduate study, the students must be doing graduate work. The mere possession of a degree does not entitle the student to become a member of this department if the courses which he is taking are undergraduate courses.

Students who satisfy the faculty of their fitness, may be permitted to take advanced work without reference to a degree. The preliminary requirements for study of this character are the same as if the student were a candidate for a degree.

## Fees and Courses

The fees in graduate study are the same as those for undergraduates. Courses in graduate work are offered by the following departments of the University: Biology, Botany, Business Administration, Chemistry, Economics and Sociology, Education, English, Foreign Languages, Forestry, Geology, History and Political Science, Home Economics, Mathematics, Psychology and Philosophy, Physical Education, Physics.

The State University is prepared to give instruction of a thorough character leading to the degree of Master of Arts and Master of Science. For the present the University does not offer courses leading to the degrees of Doctor of Philosophy or Doctor of Science.

Degrees of Master of Arts or Master of Science may be conferred in accordance with the following regulations:

The Master's degree is granted only for special attainment in some branch of learning. As evidence of such attainment the candi-

date must submit a satisfactory thesis and must pass a satisfactory examination. The thesis must be submitted to an examining committee of three members, consisting of the instructor with whom the major work has been done and to two other members of the faculty selected by the Committee on Graduate Work. This examining committee will pass upon the merits of the thesis. When the thesis has been accepted, the same committee will arrange and conduct the examination of the candidate. The examination may be oral, or written, or both, as the committee decides.

In order to be admitted to the examination, the candidate must have complied with the following conditions:

1. He must be a graduate of the University of Montana or of some other institution of equal rank approved by the Committee on Graduate Work.

2. He must have been in residence and registered at this University as a candidate for the Master's degree, for three full quarters.

Three summer sessions of 9 weeks each will be accepted as fulfilling the residence requirements, with the following provisions:

- A. The candidate will be required to pass an examination in courses amounting to not less than 36 quarter credits.

- B. The thesis must be prepared in absentia or during a subsequent summer session.

- C. In the case of discounted courses the student may be allowed to make up the discount in absentia.

3. He must offer himself for examination in specific subjects amounting to the equivalent of at least thirty credits. Twenty-two of these thirty credits must be in the major subject. Eighteen of the thirty credits must have been pursued in residence at the University. A list of the specific subjects in which the candidate offers himself must be reported one month before the time of examination to the Committee on Graduate Work and must be approved by this committee.

Note: Graduate work is intensive in character and it requires much more diligent application than does undergraduate work. Therefore, the thirty credits of graduate work is considerably more than the equivalent of thirty credits of undergraduate work. It should be understood that the Master's Degree is not granted for any number of credits. In all cases some distinction in achievement is required of the candidate.

4. The instructor with whom the major work is elected is the candidate's adviser. With his help, the candidate must, within two weeks after the time at which he takes residence, prepare and submit to the Committee on Graduate Work for its approval a program of the courses which he intends to pursue in preparation for the examination.

5. Before registering for any course leading to the Master's degree the student should confer with the chairman of the Graduate Committee in order that mistakes in procedure may be avoided.

Note: Courses numbered from 11 to 99 are offered to undergraduates only; those numbered from 101 to 199 are offered to both undergraduates and graduates; **the amount of graduate credit allowed is to be left to the department concerned and the graduate committee;** those numbered from 201 to 299 are offered to graduates only. Courses to which undergraduates are admitted are discounted as to credit, but the discount may be made up by the student, with the consent of the instructor, who must certify to the satisfactory completion of the extra work.

5. The subject of the thesis must be reported to the Committee on Graduate Work three months before the time at which the candidate expects to present himself for examination, and the subject must be approved by this committee.

6. Before the degree is conferred the candidate's thesis must be deposited with the Librarian and its receipt duly acknowledged by that official.

7. Theses for the Master's Degree must be typewritten on letter size paper in the style prescribed by the graduate committee. If the thesis is printed it must conform to the style of the University of Montana Studies.

8. Candidates for the Master's Degree must have a reading knowledge of any foreign language necessary for the prosecution of their graduate work in the department concerned.

# School of Business Administration

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PROFESSORS, SHIRLEY J. COON (Dean), J. B. SPEER. ASSOCIATE PROFESSORS, CLYDE E. BURGEE (on leave), EMMETT R. SANFORD. ASSISTANT PROFESSORS, CALVIN CRUMBAKER, CLOICE R. HOWD, CLAUDE STIMSON. INSTRUCTORS, E. KIRK BADGLEY, JOHN A. REES.

The School of Business Administration gives training in its elementary courses for expert clerical work, and in its advanced courses for administrative positions in industrial and commercial organizations and in public service. It is the policy of the school to develop as rapidly as possible such training as will meet the needs of future executives.

## Requirements for Admission

A well rounded course in business requires a solid foundation in non-technical subjects. Regular students who are candidates for the Bachelor of Arts degree must present credentials showing that they have satisfied entrance requirements in the State University of Montana or in some college or university of approved standing and that they have completed two years of study in such school. Persons who do not possess these qualifications may register as special students provided they are not less than twenty-one years of age and give satisfactory evidence that they are able to carry university courses.

## Requirements for Graduation

Candidates for the degree of Bachelor of Arts in Business Administration must meet the following requirements:

1. The general University requirements for restricted electives (see pages 61-62).

2. A minimum of fifty-three credits in Business Administration and Economics. Only such subjects will be accepted as fulfilling the major requirements as have the approval of the dean. The following courses, described under the department of Economics, are accepted as Business Administration subjects: Principles of Economics, Money and Banking, Exchange, Railway Transportation, and Public Utilities.

3. Candidates for the degree of Bachelor of Arts in Business Administration must include the following courses: 14ab, Principles of Economics; 11ab, Psychology; 12ab, Accounting; 41, Commercial Law; 133, Corporation Finance; and 151ab, Marketing.

4. The special senior examinations will not be given except to candidates for Honors.

### Collateral Courses

The following courses may not be applied toward the required fifty-three credits in Business Administration, but they are recommended to students in this field: Mathematics of Investments, Statistics, and Economic Botany. Principles of Economics is a prerequisite to all advanced courses in Business Administration and should be taken in the sophomore year. Elementary and Intermediate Accounting should also be taken in the sophomore year.

### C. P. A. Examinations

The laws of the State of Montana provide for the certification of public accountants. The University grants the C. P. A. certificate to legally qualified persons who have successfully passed a written examination in "Theory of Accounts," "Practical Accounting," "Auditing," and "Commercial Law." Graduates of the School of Business Administration who have pursued the courses suggested in the Accounting group will have had the necessary training to pass these examinations.

### Cooperating Schools

The School of Business Administration cooperates with the School of Law so that it is possible to obtain in six years both the Bachelor of Arts degree in Business Administration and the Bachelor of Laws degree. This is a very desirable combination for those expecting to enter the legal profession.

Students who wish to major in Advertising should elect the following courses: **Freshman year**, Journalism 11abc; **sophomore year**, Journalism 21abc, Economics 14ab, Business Organization, Psychology 11ab, and Business Psychology; **junior year**, Commercial Law, Journalism 43, and the advertising section of Journalism 31abc; **senior year**, Marketing, Fine Arts 17ab, Journalism 45ab and 47.

Those who expect to teach commercial subjects in high school should obtain the University Certificate of Qualification to Teach (see pages 33-34). Business Administration students who wish to secure this certificate should take General Psychology in their sophomore year; Education 19 and 30 in their junior year; and Education 18, 22, 26 and 166 in their senior year.

## CURRICULA OF THE SCHOOL OF BUSINESS ADMINISTRATION

Students expecting to register in the School of Business Administration are advised to take the following courses in their freshman and sophomore years, subject to modification based upon the individual student's entrance credits as indicated on pages 61-62 of this catalogue.

## FRESHMAN YEAR

Autumn	Winter	Spring
Lang. or Science..... 5	Lang. or Science..... 5	Lang. or Science..... 5
Pol. & Ec. Progress 5	Pol. & Ec. Progress 5	Pol. & Ec. Progress 5
English ..... 5	Math. 10 or 12..... 5	Math. 20 ..... 5
Physical Education 1	Physical Education 1	Physical Education 1
Military Science..... 1	Military Science..... 1	Military Science..... 1

## SOPHOMORE YEAR

Accounting ..... 5	Accounting ..... 5	Accounting ..... 5
Prin. of Econ..... 4	Prin. of Econ..... 4	Bus. Organization*.. 4
Psychology ..... 4	Psychology ..... 4	Psych. of Business.. 5
Elective ..... 3	English ..... 3	Elective ..... 2
Physical Education 1	Physical Education 1	Physical Education 1
Military Science ..... 1	Military Science ..... 1	Military Science ..... 1
*May substitute Statistics, Geology 16, or English 30.		

## GENERAL BUSINESS

## JUNIOR YEAR

Commercial Law..... 3	Commercial Law..... 3	Credits and Col..... 3
Money & Banking... 3	Money & Banking... 3	Exchange ..... 3
Corporation Fin.... 4	Investments* ..... 4	Insurance ..... 3
Elective ..... 6	Elective ..... 6	Elective ..... 6
*May substitute Public Utilities.		

## SENIOR YEAR

Marketing ..... 3	Marketing ..... 3	Foreign Trade..... 4
Labor Problems ..... 3	Public Utilities* ..... 3	Labor Ad. or Bus. Management ..... 3
Ry. Transportation.. 4	Office Management 2	Office Management 2
Seminar ..... 1	Seminar ..... 1	Seminar ..... 1
Elective ..... 5	Elective ..... 7	Elective ..... 6
*May substitute Investments.		

## ACCOUNTING

## JUNIOR YEAR

Commercial Law..... 3	Commercial Law..... 3	Credits & Col..... 3
Corp. Finance ..... 4	Investments* ..... 4	Insurance ..... 3
Advanced Account.. 4	Advanced Account.. 4	Cost Accounting..... 4
Elective ..... 5	Elective ..... 5	Elective ..... 5
*May substitute Public Utilities.		

## SENIOR YEAR

Marketing ..... 3	Marketing ..... 3	Labor Ad. or Bus. Management ..... 3
Labor Problems..... 3	Office Management 2	Office Management 2
Auditing ..... 4	Income Tax..... 4	C. P. A. Problems... 4
Elective ..... 6	Elective ..... 6	Elective ..... 6

## DESCRIPTION OF COURSES

In calculating credits for prerequisites, Economics 11abc does not count. For a description of the courses listed under the Department of Economics see pages 73 to 75.

## For Undergraduates

**S1. Commercial Geography.** 1 Q. Summer. 4 cr. The geographical distribution of centers of production; influence of environment upon products, industries, transportation, and resources. Effects of the war upon trade. Designed primarily for teachers. Given in 1927. Mr. Sanford.

**S2. Economic History of the United States.** 1 Q. Summer. 3 cr. Open to all students. Development of the land, mineral, forest, and other natural resources; evolution of the present status of agriculture, manufacture, transportation and commerce, banking and finance. Given in 1927. Mr. Coon.

**11. Elementary Accounting.** 1 Q. Autumn. 5 cr. Open to students who have had no bookkeeping. Students who have one unit of high school bookkeeping may omit this course by satisfactorily passing a placement examination. If found unprepared to enter Accounting 12a they must take this course. The fundamental principles of accounting are explained and thoroughly illustrated through the medium of exercises, sets, and business papers. This course prepares students for Accounting 12a. Mr. Sanford, Mr. Badgley.

**12ab. Intermediate Accounting.** 2 Q. Winter, spring. 5 cr. each quarter. Prerequisite, Accounting 11, or a placement examination to show its equivalent.

a. The fundamental principles are emphasized and extended. This course follows the lines and methods of modern accounting practice, with classification of accounts for a single proprietorship.

b. This section deals with the partnership and corporate types of accounting records, controlling accounts, consignments, joint ventures, single entry, and related topics. Mr. Sanford, Mr. Badgley.

**S30. The Teaching of Commercial Subjects in Secondary Schools.** 1 Q. Summer. 3 cr. The aim of this course is to make clear the purpose and the method of teaching commercial branches in the high school. Discussion of the work to be covered and the methods of presentation with further discussion on special topics of interest to members of the class. Given in 1927. Mr. Sanford.

**41. Commercial Law.** 2 Q. Autumn, winter. Continuous. 6 cr. Summer. 3 cr. Prerequisite, junior standing, or sophomore standing and consent of the instructor. The elements of contracts; agency; bailments; sales; business associations; contracts of indemnity; negotiable instruments. Students who have had the course in Contracts in the Law School will not be given credit in this course, but Contracts may be offered as a prerequisite in lieu of this course. Mr. Stimson.

**43. Business Organization.** 1 Q. Spring. 4 cr. Prerequisite, sophomore standing. Not open to juniors and seniors except for half credit. Business corporations, associations, combinations, special reference to their functions, operations, advantages and disadvantages, relation to the anti-trust laws. Mr. Coon.

#### For Undergraduates and Graduates

**113ab. Advanced Accounting.** 2 Q. Autumn, winter. 4 cr. each quarter. Prerequisite, Accounting 12ab.

a. A thorough study of corporation accounting. The theory of balance sheets; the valuation of assets on the balance sheet; depreciation; profits; reserves; dividends; surplus.

b. Sinking and other funds; income summaries; reading and interpretation of balance sheets; liquidations; consolidations; mergers and branch house accounting. Mr. Sanford.

**114. Cost Accounting.** 1 Q. Spring. 4 cr. Prerequisite, Accounting 113ab. The elements of costs; principles and general methods of cost findings; direct and indirect costs; payroll and labor costs; compiling costs and cost data; control of cost records. Mr. Sanford.

**115. Auditing.** 1 Q. Autumn. 4 cr. Prerequisite, Accounting 113ab. Covering the general scope and purpose of auditing; the audit program; the analytical study of balance sheets and accounting records, with practical problems. Mr. Sanford.

**121. Business Management.** 1 Q. Spring. 3 cr. Prerequisite, Economics 131. The organization and management of a business with reference to ownership and operation; coordination of men and departments and lines of authority; establishment of standards; maintenance of discipline; control by means of statistics; graphs and charts, reports, supervision and inspection. Personnel management. Given in 1928 and alternate years. Mr. Coon.

**122. Labor Administration.** 1 Q. Spring. 3 cr. Prerequisite, Economics 131. The internal problems of business management of labor under a wage system in modern industrial society. The personnel manager; wage systems; the general problem of incentive and output. Given in 1926-27 and alternate years. Mr. Coon.

**124. Insurance.** 1 Q. Spring. 3 cr. Prerequisite, 14ab Economics and Commercial Law. Methods of meeting risk; the fundamental principles of life, fire, marine, and other insurance. Mr. Stimson.

**129. Office Management and Systems.** 2 Q. Winter, spring. Continuous. 4 cr. Prerequisite, Economics 14ab, Accounting 12ab, and senior standing or consent of instructor. Control through records and statistics, personnel administration, budgets and reports, purchasing and store keeping. Mr. Speer.

**132. Credits and Collections.** 1 Q. Spring. 3 cr. Prerequisite, Economics 14ab and Business Administration 41. Credit organization; the credit department; the mercantile agencies' means of gathering credit information; securing and granting credit; collection methods. Mr. Stimson.

**133. Corporation Finance.** 1 Q. Autumn. 4 cr. Prerequisite, Economics 14ab. The position of corporate organization in modern business; the financial side of organization and promotion; the financial policy with reference to underwriting; capitalism; earnings; surplus; manipulation; insolvency; receivership and reorganization. Problems and methods of social control. An investigation into the financial organization of some particular corporation. Mr. Burgee, Mr. Rees.

**145. Income Tax.** 1 Q. Winter. 4 cr. Prerequisite, Accounting 113ab and Commercial law 41. This course deals especially with the accounting requirements of the law, a study of the regulations and a digest of the law, with practical problems in the preparation of returns for individuals, partnerships and corporations. Mr. Sanford.

**151. Marketing.** 2 Q. Autumn, winter. Continuous. 6 cr. Summer. 3 cr. Prerequisite, 20 credits in Business Administration and Economics, including Economics 14ab. The general distributive system; history and theory; some specific commodities. The newer types of retailer. A study of the functional middlemen, including transportation, risk and risk bearing, the organized exchanges, the warehousing industry, inspection and grading, market news, Market price, Business Policies. Financial problems. Mr. Coon.

**152. Foreign Trade.** 1 Q. Spring. 4 cr. Prerequisite, 20 credits in Business Administration and Economics, including Economics 14ab. The nature and methods of foreign trade. Particular emphasis is given to export trade. Mr. Crumbaker.



**154. Investments.** 1 Q. Winter. 4 cr. Prerequisite, Corporation Finance. General investment principles, forms of investment securities, tests of investments, work of the bond houses, listing on the Exchange, safeguarding investments. Given in 1927 and in alternate years. Mr. Crumbaker.

**155. C. P. A. Problems.** 1 Q. Spring. 4 cr. Prerequisite, Business Administration 41, 115, and 145. A study of unrelated problems set by various Boards for Certified Public Accounting Examinations. A discussion of proper methods of approach and solution. Mr. Sanford.

**191. Business Administration Seminar.** 3 Q. Autumn, winter, spring. Continuous. 3 cr. Prerequisite, senior standing and consent of instructor. An intensive study of some problems in Business Administration. Mr. Coon.

# SCHOOL OF FORESTRY

PROFESSORS, DORR SKEELS, T. C. SPAULDING\* (Dean). ASSOCIATE PROFESSORS, FAY G. CLARK, IRWIN W. COOK. INSTRUCTORS, JEROME H. RAMSKILL, T. G. SWEARINGEN. LECTURER, C. A. SCHENCK.

The School of Forestry provides instruction along two distinct lines:

1. An undergraduate course of four years allowing specialization in the various branches of Forestry, Forest Engineering, or Grazing Management.
2. A graduate course leading to the degree of Master of Science in Forestry with opportunities for research in Silviculture, Management, Forest Engineering, Grazing Management, or allied subjects.

## UNDERGRADUATE COURSES

The undergraduate curricula have been specifically arranged to grant the broadest possible undergraduate training in the profession of Forestry with particular reference to the various lines of scientific and administrative work in the federal and state's forest service, and the problems of management in the lumber industry. Special emphasis is laid on the forestry of the West.

In order that the student may have the best possible grasp of both the theory and the practice of the profession of forestry, technical instruction must be supplemented by at least two summers' field practice or its equivalent. This plan enables the student to attain a broader and better knowledge of the problems confronting him in the profession and serves as an excellent basis for a more thorough comprehension of the advanced undergraduate subjects. The allocation of students to this summer training is accomplished through the cooperation of the U. S. Forest Service, the State's Forestry Department, the Lumber Industry, and the Forest Protective Associations of the region as well as other governmental agencies. It will be seen that this cooperative arrangement is most satisfactory; the student graduates with a well-rounded education in the profession of forestry, and while attaining it, has earned money to pay in part for his college course.

## GRADUATE STUDY AND RESEARCH

The School of Forestry offers graduate work leading to the degree of Master of Science in Forestry. Candidates for the degree of Master of Science in Forestry must hold a first degree in Forestry from some university or college of recognized standing. In order to be enrolled

in graduate study, the student must be doing graduate work. The mere possession of a degree does not entitle the student to become a candidate for an advanced degree if the courses he is taking are those normally given in the undergraduate curriculum.

Students who satisfy the faculty as to their fitness may be permitted to take advanced work without reference to a degree. The preliminary requirements for study of this character are the same as if the student were a candidate for a degree.

The School of Forestry offers an exceptional opportunity for graduate and research work in the forest stands of the Northern Rockies, with particular reference to the problems of Silviculture, Management, Lumbering, Logging, Utilization, Timber Mechanics, and Grazing. Ample laboratories and laboratory equipment, a valuable school forest of some 1500 acres of fir, larch, and yellow pine immediately adjacent to the campus, mills with an annual cut of 150,000,000 feet B. M. within thirty minutes of the School of Forestry, forest nurseries, etc., are at the disposition of the graduate student or the research worker.

#### LOCATION OF THE SCHOOL OF FORESTRY

The School of Forestry of the State University of Montana possesses a marked advantage in location and in equipment. Every forest type of the inland northwest is found within a few miles of the school. Two transcontinental railroads, three branch railroads, and interurban electric lines place the school within easy reach of extensive logging, lumbering, and lumber manufacturing operations. Three large mills are located within thirty minutes' ride or walk from the campus. All have placed their plants at the use of the School of Forestry for laboratory purposes.

The Forestry building is one of the finest structures on the campus. It is of reenforced concrete and tapestry brick and contains in its three stories some 23,400 square feet of floor surface devoted to classrooms, laboratories, and offices in Forestry. The first floor contains the library, Forest Club room, the offices of the Dean and the State Forester of Montana, a research laboratory, the well-equipped timber testing laboratory, the instrument room, the Forest Club kitchen, and a shower and locker room for forestry students. On the second floor are located the laboratories in Forest Improvements, Wood Technology, Grazing, Silviculture, and Forest Mensuration. Here also is the auditorium with a seating capacity of 200. The moving picture and stereopticon booth is located at the rear of the assembly room on a landing between the second and third floors. The third floor is devoted to Forest Engineering with its classrooms, dark room, blue print room, four drafting and engineering laboratories and the supply room. Faculty members have their offices adjacent to their laboratories and classrooms. The Dendrological and Forest Pathological laboratories are in the Department of Botany, Natural Science building.

The headquarters of the northern district of the United States Forest Service, the Northern Rocky Mountain Experiment Station and the offices of two forest supervisors are located in Missoula. The boundaries of the Lo Lo, Bitter Root and Missoula National Forests and Blackfoot Forest Protective Association are closely adjacent to the school. These include more than 4,000,000 acres of government and privately owned timber lands, under forestry management. Within 50 miles are the boundaries of seventeen national forests, three other government timber reserves, a national park, and two private Forest Protective Associations. The offices and headquarters of the State Forester of Montana and the State Forestry organization are located in the Forestry building.

### **THE FOREST CLUB**

A forestry club with a student and faculty membership of more than 100 meets fortnightly for the discussion of forestry problems, the consideration of technical and professional papers, and the promotion of a social spirit.

The Druids, a Junior-Senior honorary society, serves as a medium for the presentation of professional papers and the results of student and faculty research, and to cement the comradeship gained through three or four years of college life.

### **SUMMER WORK**

One of the most important features of the School of Forestry is the opportunity which the students have for summer work. Each student is expected to spend at least two seasons of not less than three months of each year in gaining field experience in some type of Forestry work. The officials of the U. S. Forest Service, other governmental agencies, the states, and the lumber companies assist in placing the men in this summer work; their promotions through the succeeding vacations and positions after graduation are entirely dependent on their own effort and ability.

### **FIELD WORK**

As much of the technical instruction as possible is carried on in the field. The School Forest with its 1500 acres of fir, larch, and yellow pine, varying in size from reproduction to over-maturity, the national and private holdings, the logging operations, and the mills offer excellent laboratories in the practice of the various phases of Forestry. Trips of from one to several days' duration are required of all undergraduate students. Students should also be prepared to attend Spring Camp on Flathead Lake or elsewhere. This camp is usually held in May.

### **SPECIAL LECTURERS**

The faculty of the School of Forestry is ably assisted by a staff of many special lecturers, experts, and specialists in various lines of

forestry and forest utilization. An unusual opportunity for this is afforded through the location of the Forest School. Valuable co-operation is offered by the officers of the Government and State's Forestry Services, and men prominent in the stock raising and lumbering industries.

### REQUIREMENTS FOR ADMISSION

The completion of a four years' preparatory or high school course is required for entrance to the School of Forestry, as in the other regular courses of the University.

Students in high school and preparatory schools who plan to enter the School of Forestry should preferably include various elementary natural sciences, English, and Mathematics in their training. Students intending to specialize in Forest Engineering should also, when possible, include manual arts and drawing in their preparation.

### SPECIAL STUDENTS

Students over twenty-one years of age, who are not high school graduates and who are not candidates for degrees, may be admitted without the usual entrance credits, subject to the general rules of the University, as special students, if they are prepared to pursue successfully the special courses desired.

Special students may acquire status as regular students and become candidates for degrees by complying with the University rules applicable to such cases.

### REQUIREMENTS FOR GRADUATION

Candidates for a degree of Bachelor of Science in Forestry must complete 186 credits of work in addition to the regular requirements of the University in Physical Education and Military Science, and in addition, two summers of regularly approved field work. Should a student fail to offer this field work, he may be allowed to substitute for it credits earned in residence in the ratio of three credits for each summer of field work.

One credit represents three hours of time each week throughout one quarter, occupied in recitations or lectures, and in preparation outside of the classroom. Time given to laboratory or field work is credited on the same basis of valuation—"Three hours for one."

The courses leading to the degree of Bachelor of Science in Forestry require twelve quarters of attendance and extend normally over four years, giving the student three months for summer work each year. Students will be expected to round out their theoretical training by employment in the forest service or with lumbering and logging companies during the summer quarter.

The School of Forestry does not give senior examinations except to candidates for Honors.

**CURRICULUM IN FORESTRY AND ALLIED SUBJECTS**

**Undergraduate Courses**

FIRST YEAR			
General Botany.....	5	General Botany.....	5
Mathematics.....	5	Mathematics or	
General Forestry.....	2	English.....	5
Surveying and Mapping.....	4	General Forestry.....	3
Military Drill.....	1	Surveying and Mapping.....	4
Physical Education.....	1	Military Drill.....	1
	<u>18</u>	Physical Education.....	1
			<u>19</u>

SECOND YEAR			
English or an Elective.....	3	Forest Geology.....	5
Plant Histology.....	5	Ecology.....	5
Logging.....	4	Topographic Surveying and Mapping.....	4
Military Drill.....	1	Military Drill.....	1
Physical Education.....	1	Physical Education.....	1
Elective.....	4-5	Elective.....	3
	<u>18-19</u>		<u>19</u>

THIRD YEAR			
Silviculture.....	4	Silviculture.....	4
Dendrology.....	4	Forest Pathology.....	5
Identification of Woods.....	4	Forest Products.....	4
Forest Mensuration.....	3	Forest Mensuration.....	4
Elective.....	4	Elective.....	2
	<u>19</u>		<u>19</u>

FOURTH YEAR			
Management.....	4	Management.....	4
Forest Policy.....	4	Administration.....	4
Logging Engineering or Grazing Management.....	4	Lumbering or Grazing Management.....	4
Research or Electives.....	4-6	Research or Electives.....	4-6
	<u>16-18</u>		<u>16-18</u>

or

THIRD YEAR			
Identification of Woods.....	4	Forest Products.....	4
Elem. Forest Engineering.....	4	Lumbering.....	4
Silviculture.....	4	Silviculture.....	4
Forest Mensuration.....	3	Forest Mensuration.....	4
Electives.....	4	Electives.....	3
	<u>19</u>		<u>19</u>

FOURTH YEAR			
Forest Management.....	4	Forest Management.....	4
Logging Engineering.....	4	Logging Engineering.....	4
Dendrology.....	4	Timber Mechanics.....	3
Research or Elective.....	4	Forest Mapping.....	2
	<u>16</u>	Research or Elective.....	4
			<u>17</u>

**Advised Electives in Forestry**

Economics of Forestry.....	3	Slide Rule.....	1	Scaling and Cruising.....	3
Slide Rule.....	1	Grazing Management.....	4	Slide Rule.....	1
Forest Mapping.....	2	Economics of Lumber Industry.....	3	Grazing Management.....	4
Grazing Management.....	4			Timber Mechanics.....	3
				Forest Mapping.....	2

### Electives in Other Schools and Departments

In addition to the above courses, students after the freshman year may elect not to exceed 12 credits each year in any school or department of the University, subject to the approval of the faculty of the School of Forestry and of the department in which the work is taken. The English requirements are those of the general University.

## DESCRIPTION OF COURSES

For Undergraduates

### I. Forest Policy and Administration

**11a. General Forestry.** 1 Q. Autumn. 2 cr. Required of all freshmen. The course covers the functions and characteristics of forests, their benefits, and use. The forests of the world, their distribution, and importance. Forest regions of the United States. Mr. Skeels.

**11b. General Forestry.** 1 Q. Winter. Freshman. 3 cr. Forestry as a science. The art of forestry. Forestry as a profession. Definition of terms used in forestry. Mr. Skeels.

**11c. Forest Protection.** 1 Q. Spring. 3 cr. Freshman or sophomore. A detailed analysis of fire organization, prevention, detection, and suppression, including the adjunct insurance bases, surveys, risks, liabilities, and suppressive factors. Types and use of instruments. Cooperation. Insect depredations and invasions, their economic aspects, remedial and control measures. Texts: Fire fighting manuals. Western Forestry and Conservation Association, and Government publications. Mr. Spaulding.

**12. Economics of Forestry.** 1 Q. Autumn. 3 cr. Junior or senior. A study of the forest problems from an economic standpoint, the relation of the State to the forest resources, forest requirements of the nation, economic results of past and present forestry practice. References: Public Documents and Trade Journals. Given in 1926, and in alternate years. Mr. Clark.

**13a. Forest Policy.** 1 Q. Autumn. 4 cr. Junior or senior. Prerequisite, Silvics 22. The forester and forest owner and the public. A study of the fundamental principles underlying the forest policies of the various nations and the United States. The theories of forest taxation. The forest laws of the states. Public land law in its relation to the forester. Public relations. Texts and collateral reading: Fernow, Economics of Forestry; Kinney, Development of Forest Law in America; Kinney, Essentials of American Timber Law; Schlick, Forest Policy; Ise, Forestry Policy in America. Mr. Spaulding.

**13b. Forest Policy.** 1 Q. Winter. 4 cr. Prerequisite, 13a. A continuation of the previous course. Mr. Spaulding, Mr. Clark.

**13c. Forest Administration.** 1 Q. Spring. 4 cr. Prerequisite, 13b. Public and private forest organization, the handling of forest administrative problems, general organization, the personnel question, overhead and supervision, efficiency methods, detailed analysis of the various regulations and instructions, and their practical application from the forest officers' and forest users' standpoint. Mr. Clark, Mr. Stone.

**14. Economics of the Lumber Industry.** 1 Q. Winter. 3 cr. Junior or senior. Open only to majors in forestry or economics. A study of the problems of the lumberman treated from the viewpoint of the forester rather than that of the economist, covering briefly the problems of the industry relative to raw materials, labor, manufactur-

ing, finance and mergers, transportation, marketing, and substitutes. Texts: Public Documents and Trade Journals. Given in 1927, and alternate years. Mr. Clark.

## II. Silviculture and Forest Management

**22. Silvics.** 1 Q. Winter. 3 cr. Sophomore or junior. Prerequisite, Botany 11. A study of the behavior and habits of growth of our most important trees in forest stands. Requirements for growth. Resistances and susceptibilities. Influences on site, region, and other environmental conditions—form and habit, normal stands and yields, seeding qualities and reproduction, adaptability to silvicultural treatment and management. Mr. Skeels.

**23a. Silviculture.** 1 Q. Autumn. 4 cr. Prerequisite, Botany 151, Silvics 22. Juniors only. Forest distribution by regions, types, and species. A study of forest types and their relation to locality, site, quality and environmental conditions, habits of development and growth, origin, transition types and temporary types, climax types, natural reproduction, protection and treatment, stands and yields. Mr. Skeels.

**23b. Silviculture.** 1 Q. Winter. 4 cr. Prerequisite, 23a. Systems of silvicultural treatment. Regeneration methods. Intermediate cuttings. Conservative exploitations of woodlands, forest protection. References: Hawley, Practice of Forestry; Graves, Principles of Handling Woodlands. Mr. Skeels.

**23c. Silviculture.** 1 Q. Spring. 4 cr. Prerequisite, 23b. Afforestation and reforestation. Natural and artificial reproduction, forest seed; properties, characteristics, collection, storage, testing, etc. Direct seeding, nursery practice, methods of field planting. Reference: Toumey, Seeding and Planting in the Practice of Forestry. Mr. Skeels.

**24. Forest Mensuration.** 3 Q. Autumn, 3 cr. Winter, 3 cr. Spring, 4 cr. Continuous. 10 cr. Prerequisites, Mathematics 10 and Topographic Surveying and Mapping. The construction and theory of log rules. Principles underlying the construction of volume and taper tables. Principles and methods of determining the cubic contents of trees and stands of timber, the study of growth of trees and stands. Factors affecting the growth of stands. Yield tables, their value to the forester. Determination of growth per cent. Elements of scaling and the measurements of growth in stands. Text: Chapman, Forest Mensuration. References: Graves, Forest Mensuration; Schlick, Manual of Forestry, Vol. III; Journal of Forestry. Field work to be done at the School Forest in Pattee Canyon with trips to logging operations. Mr. Clark.

**25. Scaling and Cruising.** 1 Q. Spring. 3 cr. Prerequisite, autumn and winter quarters of Forestry 24 or equivalent. A study of log scaling and timber cruising. Commercial measurements of logs and other forest products. Commercial measurement of standing timber by the various methods used by foresters and timber cruisers. Scaling to be done at the nearby sawmills. Cruising in the School Forest in Pattee Canyon and elsewhere. Mr. Clark.

**26a. Forest Management.** 1 Q. Autumn. 4 cr. Prerequisite, Forest Mensuration 24c and Silviculture 23c. This course covers forest valuation, definition of values, nature of forest capital, methods of determining values, statistics, financial effects of management as related to forest valuation, methods of measuring profits of forestry. Relations of the attributes of the normal forest, increment, growing



stock and distribution of age classes. References: Roth, Forest Valuation; Recknagel and Bentley, Forest Management; Schlick, Forest Management, Vol. III; Chapman, Forest Mensuration; Woolsey, American Forest Regulations. Mr. Skeels.

**26b. Forest Management.** 1 Q. Winter. 4 cr. Prerequisite, 26a. This course deals with forest regulation and the foundations of working plans and covers, forest per cent and the several forest increments: rotations, financial, physical, technical, economical, and natural or silvicultural. Determination and regulations of the yield. References: Same as in 26a and Roth, Forest Regulation. Mr. Skeels.

**26c. Forest Management.** 1 Q. Spring. 4 cr. Prerequisite, 26b. Preparation of Forest Working Plans; continuing determination and regulation of the yield, collection and arrangement of forest statistics, division and allotment of the forest area for treatment, administration and management, preparation of the working plan report. About one-half of the class time will be in the field, and preparation of working plans will deal with field problems. Mr. Skeels.

### III. Forest Utilization

**31. Wood Technology.** 1 Q. Winter. 4 cr. Prerequisite, Botany 23. A study of the physical, chemical, and mechanical properties of wood. A microscopic study of the characteristics and methods of identification of the economic woods of the United States. Texts: Koehler, The Properties and Uses of Wood; Koehler, Guidebook for the Identification of Woods Used for Ties and Timber. Mr. Ramskill.

**32. Forest Products.** 1 Q. Spring. 4 cr. Prerequisite, Wood Technology 31. A survey of the character, extent, and value of the products from the forests of the world, with special reference to those of the United States. Text: Brown, Forest Products. References: Kellogg, Lumber and Its Uses; Watts, The Commercial Products of India; Howard, Timber of the World; Zon and Sparhawk, Forest Resources of the World; Publications of U. S. Forest Service. Mr. Ramskill.

**33a. Logging.** 1 Q. Autumn. 4 cr. Sophomore. A study of the various methods and equipment used in logging. Costs. Comparative European methods and equipment. Field trips and studies made of nearby logging operations when practical. Bryant's Logging. Reference: Schenck, Logging and Lumbering. Mr. Cook.

**33b. Logging.** 1 Q. Winter. 4 cr. Prerequisite, 33a. A study of the forest regions of the United States from the lumbering standpoint, and the logging methods used in each, with special reference to the Rocky Mountain and Inland Empire regions. Studies of nearby logging operations. Reference: Bryant's Logging; Trade Journals. Mr. Cook.

**34. Lumbering.** 1 Q. Spring. 4 cr. Prerequisites, Mensuration 29b and Logging 33ab. A study of the lumbering industry of the United States with special reference to the western states. Types of sawmills and equipment in use, including costs of production, prices and markets. Visits to nearby sawmills. References: Bryant, Lumber; Oakleaf, Lumber Manufacture; Kellogg, Lumber and Its Uses. Mr. Ramskill.

**36a. Logging Engineering.** 1 Q. Autumn. 4 cr. Prerequisites, Senior, Forest Mensuration 29c, Topographic Surveying and Mapping 43a, Logging 33ab. The application of engineering principles to logging operations. Surveys and plans for camps, chutes, splash dams,

flumes, and stream improvements. Study and problems relating to methods and machines used in power logging. Visits to nearby logging operations when practical. Mr. Cook.

**36b. Logging Engineering.** 1 Q. Winter. 4 cr. Prerequisites, Senior, Logging Engineering 36a. A study is made of the factors governing the cost of felling, bucking, swamping, skidding, and log transportation. Logging plans and cost accounts of logging operations are studied. Stumpage appraisals are made and a sample plan of a nearby area prepared. Mr. Cook.

**36c. Logging Engineering.** 1 Q. Spring. 4 cr. Prerequisites, Senior, Logging Engineering 36b. Reconnaissance; preliminary surveys and location; the laying out of roads and logging railroads by practical methods; by Abney level and tape; by transit, level, and tape; topography and cross-sectioning; slope stakes; trestles and culverts; cost estimates; railroad drafting. References: Searles and Ives, Field Engineering; Raymond, Railroad Engineering; Carhart, Field Book for Civil Engineers. Mr. Cook.

**37. Timber Mechanics.** 1 Q. Autumn. Winter. Spring. 3 cr. Prerequisite, Wood Technology 31. A study of the factors governing the strength of woods. References: Publications of the United States Forest Service; Wines, Strength of Materials; Lectures and Laboratory. Mr. Ramskill.

#### IV. Range Management

**39a. Grazing Management.** 1 Q. Autumn. 4 cr. Junior or senior. Prerequisite, Plant Ecology 151, Plant Physiology 22, Surveying 41abc, Mapping 42abc. The course covers a study of the types and breeds of livestock ranged on the National Forests; the theory and practice of breeding; feeds and feeding. The common diseases and methods of treatment. Mr. Spaulding.

**39b. Grazing Management.** 1 Q. Winter. 4 cr. Junior or senior. Continuation of course 39a. The work covers the choice of type and breed of animals, choice of method of handling livestock on the range. Plans for improvements, breeding practice, handling stock on the range, and administration. Mr. Spaulding.

**39c. Grazing Management.** 1 Q. Spring. 4 cr. Junior or senior. Continuation of course 39b. This course covers the methods of investigating range conditions, surveying, mapping, collection, and tabulation of data relative to forage, water, and carrying capacity conditions, range improvements, range reconnaissance, methods of handling stock in use, etc., necessary for the preparation of working plans and the preparation of a report covering the actual range conditions. Texts: Feeds and Feeding, Henry and Morrison; Types and Breeds of Farm Animals, Plumb; Market Types and Classes of Livestock, Vaughn; Principles of Breeding, Davenport; various Government publications and documents. Mr. Spaulding.

#### V. Forest Engineering

**41a. Surveying.** 1 Q. Autumn. 3 cr. Freshmen. Use and care of instruments. Pacing, tape, compass, and traverse board surveys. Instruction in the fundamentals of surveying. One hour lecture and six hours field practice per week. Texts: Tracy, Plane Surveying; Pence and Ketchum, Field Manual. Mr. Cook.

**41b. Surveying.** 1 Q. Winter. 3 cr. Prerequisite, Surveying 41a or equivalent. Compass land surveys, computation closure, and area by latitude and departure and double meridian distance. Dif-

ferential, profile, and reciprocal leveling. Care and adjustment of the Wye and Dumpy levels. Care and adjustment of the transit, transit surveys. Instruction covers U. S. land survey methods, retracements, and subdivisions of sections. One hour lecture and six hours field practice. Mr. Cook.

**41c. Surveying.** 1 Q. Spring. 3 cr. Prerequisite, Surveying 41ab or equivalent. Transit and stadia surveys. Transit and plane-table; primary and secondary triangulation for control in mapping large areas. Planetable and traverse board methods of making topographic and type maps for grazing. Instruction covers the theory of the use of the transit and planetable. One hour lecture and six hours field practice. Mr. Cook.

**42a. Mapping.** 1 Q. Autumn. 1 cr. Elementary map making and lettering; conventional signs for maps used in forest work. Map construction and use. Four hours practice in drafting room per week. Mr. Ramskill, Mr. Swearingen.

**42b. Mapping.** 1 Q. Winter. 1 cr. Prerequisite, 42a or equivalent. Practice in plotting and compiling maps from field notes of logging unit and homestead surveys. Four hours practice in drafting room per week. Mr. Ramskill, Mr. Swearingen.

**42c. Mapping.** 1 Q. Spring. 1 cr. Prerequisite, 42b or equivalent. Compiling of maps from individual notes taken in the field by the surveying class. Determination of area by planimeter; preparation and use of tracings. Four hours practice in drafting room per week. Mr. Ramskill, Mr. Swearingen.

**43. Topographic Surveying and Mapping.** 1 Q. Spring. 4 cr. Prerequisites, Surveying 41abc; Mapping 42abc; Plane Trigonometry, or equivalent. Abney level methods of mapping with special application to the survey of timber regions. The making of base maps and compilation of data. Determination of meridian with and without solar attachments and by stellar observations. Fourteen hours of field or drafting room work per week supplemented by lectures and recitations. Text: Tracy, Plane Surveying. Reference: Wilson, Topographic Surveying. Mr. Ramskill.

**45a. Elements of Surveying.** 1 Q. Autumn. 3 cr. Prerequisite, Mathematics 12. This course is intended for major students in Geology who cannot afford to spend the time required in Surveying and Mapping 41abc, 42abc, and 43ab taking the same Engineering work required of Forestry majors, and who do not need the intensive work required of Foresters along these lines. Not open to majors in Forestry. The course grants a synopsis of Plane and Topographic Surveying, with special emphasis laid on the use of the plane table and in the preparation of contour maps. Mr. Cook and Mr. Ramskill.

**46. Elementary Forest Engineering.** 1 Q. Autumn. 4 cr. Sophomore or junior. Prerequisite, Mapping 42. Construction and maintenance of forest telephone lines. Repair and installation of local battery telephone sets. Construction materials and their use in standard building practice. Plans for development and sanitation of station sites; arrangement and sanitation of logging camps. Use of mortars and concrete. Paints and painting. Installation of water, plumbing, and light systems. Location and construction of trails and bridges. Mr. Clark.

**51. The Slide Rule.** (Subject to demand for class.) 1 cr. Prerequisite, Mathematics 12 or equivalent. Study and practice with the Log Log, Polyphase, Duplex, and Stadia Slide rules as an aid to rapid mathematical calculations. Reference: Blaine, The Slide Rule (5th edition). Mr. Ramskill.

**52. Forest Mapping.** 1 Q. Subject to demand for class.) Autumn. Winter. Spring. 2 cr. Junior or senior. Prerequisite, Topographic Surveying and Mapping 43. Practice in making base maps; methods of building small scale maps of large areas. Map projection in detail. Methods of topographic representations. Shaded contours, hachure shaded relief, and relief maps. Aerial photography and mapping. Mr. Cook.

#### For Graduates and Advanced Undergraduates

**101. Forestry Problems and Research.** Any quarter. 3 to 5 cr. Given by the Forestry staff.

**124. Advanced Mensuration.** 1 Q. Winter. Spring. 3 cr. Prerequisite, Mensuration 24. Research problems in Mensuration. Analysis of forest data by statistical and graphic methods. Interpretations of results and their application to the forest problem. Mr. Clark.

#### For Graduates

**213. Forest Policy, Administration, and Organization.** Any quarter. 3-5 cr. Open only to graduate students, having had undergraduate work in Forest Policy and Administration. Investigation of public and private forest organizations, personnel methods and procedure, public and private methods of finance, fiscal procedure, temporary and permanent organizations and their relation to administration and protection. Mr. Clark and Mr. Spaulding.

**222. Silvical Investigations.** Any quarter. 3-5 cr. Open only to graduate students, having had undergraduate work in Silvics or equivalent. Research work in behavior and habits of growth of trees in forests of Inland Northwest—field work in the School Forest. Experimental work in Forest School, forest nursery, and laboratory. Mr. Skeels.

**223. Silvicultural Investigations.** Any quarter. 3-5 cr. Open only to graduate students, having had undergraduate work in Silviculture. Research work in Silvicultural practices and regeneration results in northwestern forests. Studies of practices and results in National Forest Timber sale areas. Mr. Skeels.

**224. Forest Mensuration.** Any quarter. 3-5 cr. Open only to graduate students having had undergraduate work in Mensuration or its equivalent. Investigations in volume determination and yields with reference to the practice of private and public forestry. Mr. Clark.

**226. Forest Management.** Any quarter. 3-5 cr. Open only to graduate students, having had undergraduate work in Forest Management. Studies of growths and yields on cut over areas and in second growth stands of National forests and privately owned timber lands. Studies of costs and incomes on private timberlands. Investigations of the economic factors affecting industrial forestry. Mr. Skeels.

**227. Wood Technology.** Any quarter. 3-5 cr. Open only to graduate students, having had undergraduate work in Wood Technology. The mechanical and physical properties of the Rocky Mountain species. Advanced timber testing. Mr. Ramskill.

# SCHOOL OF JOURNALISM

PROFESSOR, ARTHUR L. STONE (Dean). ASSISTANT PROFESSOR, ROBERT L. HOUSMAN.

Practical training in the work of newspaper making is the purpose of the School of Journalism of the State University of Montana. Professional training is combined with courses in the College of Arts and Sciences, so that the graduates of the school may obtain preparation as broad and comprehensive as possible.

The professional work of the School of Journalism is thoroughly practical. Its purpose throughout is to develop reporters—to ground its students thoroughly in the fundamentals of newspaper practice.

No student leaves the school with the idea that he is ready to assume at once editorial or managerial duties.

The School of Journalism recognizes the fact that no other profession requires a wider range of cultural knowledge or greater ability to apply such knowledge to current events and problems than does journalism.

The school's course is four years; these years are arranged to present the features of newspaper work under conditions which parallel those which exist in a newspaper office. This plan of instruction makes the Journalism building veritably a workshop. The reporters' room resembles the news room of a newspaper office; the work done here is identical with that required of the reporter on a daily newspaper.

The Montana Kaimin, giving news of Montana, its campus and items of national collegiate interest, is issued throughout the university year. On this newspaper the students supplement class instruction by work in the gathering, handling, and presentation of news; and also in advertising, business management, and editorial interpretation and comment.

Following the work in news gathering and news writing and the study of news values, the student is given experience in editing copy, in editorial writing and in the makeup of a newspaper. The problems of the business office—circulation, the writing and selling of advertising, and the general organization of a newspaper are taken up. The student studies the newspaper as a text book. The school receives the leading newspapers of the country and these are given careful and thorough study. In the junior and senior years, a study is made of foreign newspapers and also special attention is given to the problems of the country newspaper. The school has a reference library, which is used intensively.

Publications devoted to the craft are on file and the study of these is a part of the student's assigned work. The school maintains a fine newspaper "morgue."

Special emphasis is placed upon the study of current events.

Copies of daily "flimsy" donated by the Associated Press, the United Press, and the International News Service as well as public relations material from organizations the country over are used as basis of instruction in editing and head-writing. The Mergenthaler Linotype company, the American Typefounders' company, the Missoulian Publishing company, the New Northwest, and the Missoula Bureau of Printing have been generous in their contributions of material and service.

The relationship between the School of Journalism and the Montana State Press association is close and pleasant. The school furnishes to the newspapers of the state a news service from the University.

The State Press association has appointed an advisory board for the School of Journalism. Men prominent in newspaper and publicity work in Montana and in adjoining states have been liberal in their contribution to the work of the school, through lectures and other means of instruction.

The requirements for admission to and graduation by the School of Journalism are the general requirements of the University.

There are no special fees for registration in the school.

### CURRICULUM

The course in the School of Journalism extends over the four-year period. It calls for a minimum of 50 credits in journalism subjects; the remainder of the student's work is in prescribed courses in the College of Arts and Sciences. Students in the School of Journalism are subject to the restricted elective requirements on pages 61-62. No senior examinations will be given in 1928. Normally the schedule of the course in journalism, leading to the degree of Bachelor of Arts in Journalism is:

#### FRESHMAN YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Journalism 11abc .....	5	5	5
English 11a .....	5	.....	.....
Science .....	5	5	5
Modern Language .....	.....	5	5
Military Drill .....	1	1	1
Physical Education .....	1	1	1

#### SOPHOMORE YEAR

Journalism 21abc .....	5	5	5
Modern Language .....	5	.....	.....
Literature .....	.....	4	4
English 11b or 30 .....	3-4	.....	.....
Economics 14ab .....	.....	4	4
Military Drill .....	1	1	1
Physical Education .....	1	1	1

## JUNIOR YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Editorial Writing 25ab .....	3	3	3
Public Relations 43 .....	2	2	2
Journalism Laboratory 39abc .....	4	4	4
Sociology .....	4	4	4
Economics .....	4	4	4
History 21 .....	4	4	4
Geography and Natural Resources of Montana.....	3	.....	.....

## SENIOR YEAR

Advertising 45ab .....	2	2	.....
The Newspaper 47 .....	.....	.....	2
Journalism Laboratory 41abc .....	3	3	3
Senior Practice Laboratory 48abc.....	2-5	2-5	2-5
Problems in Journalism 35abc .....	2	2	3
Sociology or Economics .....	3	3	3
Political Science or History Elective.....	4	4	.....
English Elective .....	.....	4	4

Except in case of conflicts in schedule, unless the student is relieved of some required elective, this schedule must be followed. When conflicts occur, another course in the same department may be substituted with the consent of the journalism faculty.

By the election of the following courses in the College of Arts and Sciences and in the School of Business Administration, major students in journalism may prepare themselves specifically for work in Advertising and Public Relations:

- Psychology 11ab, 8 credits.
- Business Psychology 32, 5 credits.
- Economics 43, 4 credits.
- Commercial Law 41, 3 credits.
- Marketing 151, 6 credits.
- Fine Arts 17ab, 4 credits.

## DESCRIPTION OF COURSES

**11abc. Elements of Journalism.** 3 Q. Autumn, winter spring, 5 cr. each quarter. Summer, 4 cr. Open only to freshmen and sophomores. Prerequisite to Journalism 21a but credits in this course do not count toward major. Reporting. What is news? Methods of gathering and writing news. Study of news sources and services. Considerable practice with assignments. Two series of supplementary lectures run through this course, one on "Newspaper Makers" and the other on "Newspaper Backgrounds." One period a week is devoted to current events. Mr. Stone.

## Second Year

**21abc. Advanced Reporting and Editing.** 3 Q. Autumn, winter, spring, 5 cr. each quarter. Prerequisite, Journalism 11abc. Juniors and seniors will be admitted only on consent of the instructor. Attention is given to more difficult assignments with gathering and writing news for the student newspaper. Study of the forms of newspaper composition, of correspondence and the handling of state, district or sectional news. Re-writing. The study of the handling of news in representative newspapers. The Sunday feature. Editing, copyreading. Head writing. Studies in newspaper usage. Evaluation of news. Study of the news associations and the transmission of news. Makeup. Text-book, Bastian's "Editing the Day's News," Mr. Housman.

**31abc. Kaimin Laboratory.** 3 Q. Autumn, winter, spring. 3 cr. each quarter. May be taken for any one or for all of the three quarters. Prerequisite, 2 quarters of Journalism 11. Practical newspaper work supplementing class instruction by actual gathering, handling, and presentation of news as well as practice in the advertising, business, managerial and editorial writing phases of the newspaper. Mr. Stone, Mr. Housman.

### Third Year

**25ab. Editorial Writing.** 2 Q. Autumn, winter. 3 cr. each quarter. Prerequisite, Journalism 21abc. Preparation and presentation of editorial interpretation and comment. The functions of the editorial page. In the second quarter the class is organized to function as a newspaper editorial writing staff. Mr. Housman.

**39abc. Laboratory in Journalism.** 3 Q. Autumn, winter, spring. 2cr. each quarter. May be taken for any one or for all of the three quarters. Prerequisite, Journalism 21abc. Practical drill in reporting and editing. Intensive study of any specified field in newspaper work, i. e., the "morgue." Mr. Stone, Mr. Housman.

**43. Public Relations.** 1 Q. Spring. 3 cr. Prerequisite, Journalism 21abc, or junior standing. The power and influence of public opinion; influences that affect public opinion. Relation of the newspaper to public opinion. A study of the creation and crystallization of public opinion. Textbook, Bernay's "Crystallizing Public Opinion." Mr. Housman.

### Fourth Year

**35abc. Problems in Journalism.** 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, senior standing. May be taken for any one or all of the three quarters. A round table discussion of newspaper problems. A thesis is required from each student at the end of the quarter upon some subject requiring careful research. Mr. Stone.

**41abc. Laboratory in Journalism.** 3 Q. Autumn, winter, spring. 3 cr. each quarter. May be taken for any one or for all of the three quarters. Prerequisite, Journalism 39abc, or senior standing. Mr. Stone, Mr. Housman.

**45. Advertising.** 2 Q. Autumn, winter (continuous). 4 cr. Prerequisite, Journalism 43. The theory of advertising, the designing, selling and distribution problems of the advertiser. Mr. Stone.

**47. The Newspaper.** 1 Q. Spring. 2 cr. Prerequisite, senior standing. Newspaper organization, responsibility and the coordination of departments. Mr. Stone.

**48abc. Senior Practice Laboratory.** 3 Q. Autumn, winter, spring. 2 to 5 cr. each quarter. May be taken for any one or for all of the three quarters. Limited to senior students in Journalism who have shown special proficiency in some technical line which they desire to pursue more fully. Mr. Stone.

**The following courses are given in the summer quarter only:**

**S-15. Special Writing and the Feature.** 1 Q. Summer. 5 cr. Prerequisite, Journalism 11 or news-writing experience. Practical work in covering assignments. Mr. Housman.

**S-36. Current Events.** 1 Q. Summer. 4 cr. Open to all students. Study of the current history of the world; its background; its importance; its influence. Discussion of methods of presenting this subject in school work. Mr. Stone.



# School of Law

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PROFESSORS, H. M. COLVIN, C. W. LEAPHART (Dean), WALTER L. POPE, A. N. WHITLOCK (Dixon Professor of Law). ASSOCIATE PROFESSOR, J. H. TOELLE.

The School of Law is located in a modernly equipped law school building with adequate class, office, library, and court room facilities. The school has a good working library known as the William Wirt Dixon Law Library. It includes the reports of the Supreme Court of the United States, the complete Reporter System, all State reports up to the Reporter System, complete sets of reports not in the Reporter System, English Reports, English Statutes, Canadian Reports, the revision and current statute law of all the states in the Union, citators, encyclopedias, digests, and all leading collections of cases. To a very great extent the library is the result of the generous gifts and legacies of Mrs. W. W. Dixon, and gifts of Judge John J. McHatton.

## Requirements for Admission

The American Bar Association recommends to the various states that two years of college work and three years' work in a School of Law be required of applicants for admission to the practice of law. The Montana Supreme Court requires of those seeking admission to the Bar of the state by examination two years' work in a college or university preparatory to their study of law. Since its foundation in 1911, the School of Law has required two years of college work for admission as a regular student. In accordance with these recommendations and requirements it admits no special students. Students wishing to register in the School of Law must present credentials showing that they have completed ninety quarter credits or more of the work required for the degree of B.A. or B.S. in the State University of Montana, or equivalent work in some other college or university whose credits are recognized by the State University of Montana. In this work they must have obtained grade points equal to at least eighty per cent of the credits earned. (For explanation of grade points see page 38.)

Advanced standing may be granted to students who present satisfactory credentials for equivalent courses taken in schools which are members of the Association of American Law Schools. Also, in special cases, advanced standing may be granted for work done in residence in other schools upon examination satisfactory to the law faculty.

### **Graduation and Degrees**

Students will be granted the degree of LL.B., upon satisfactory completion of the course. For this degree students are required to complete three years of law with a total of 126 credit hours, including all required courses and to maintain a "C" average or better. In no case will a degree be given unless the student has attended a law school of recognized standing for nine quarters, or their equivalent, of which at least three must have been in the School of Law of the University of Montana. Two summer sessions of six weeks each will be counted as one quarter.

No student will be recommended for the degree of Bachelor of Laws who is markedly deficient in English.

No student will be recommended for the degree of Bachelor of Laws who in the opinion of the majority of the members of the faculty of the School of Law is unfitted for admission to the practice of law by reason of a lack of honesty and integrity.

### **Combined Degrees**

Undergraduate students in regular standing, candidates for the degree of Bachelor of Arts, electing law as a major subject at the beginning of the junior year may count not to exceed 65 credit hours, or practically one and one-half years of the law course towards graduation and the degree of Bachelor of Arts. The time required for the two degrees can thus be materially shortened.

Students may also combine Business Administration and Law so as to secure in six years the degree of Bachelor of Arts in Business Administration and the degree of Bachelor of Laws.

### **Fees and Expenses**

No special tuition fee is charged in the School of Law. The regular fees described on pages 40-43 must be paid by every student. Regularly registered students in the School of Law may take any course in the College of Arts and Sciences without additional cost.

The cost of books in the School of Law will average about \$35 a year.

### **Courses for Non-Professional Students**

Courses in the Law School are open to students in other departments and schools in the University who meet its entrance requirements. Credits obtained may apply towards degrees in such departments. Students expecting to enter the fields of public service and business will find law courses of especial advantage. State and Federal commissions and departments are looking for law trained men.

### **Pre-Legal Preparation**

Although students who have successfully carried two full years of college work may register as regular students in the School of Law those who contemplate careers as lawyers are advised to take at least three years of college work before applying for admission.

No prescribed pre-legal schedule seems advisable. Besides the restricted electives required of freshman and sophomore candidates for the B.A. degree, the prospective law student is advised to devote as much time as is available to English, History, Economics, Political Science, Philosophy, Psychology, Sociology, Mathematics, and Latin.

### **The Honor System**

The honor system has been in successful operation since the foundation of the school.

### **Method of Instruction**

The case system of instruction is employed.

Special attention is given to practice court work, in which the students are required not only to argue legal questions, but to try cases, prepare appeals, and go through all the steps incident to the trial of a law suit. A very thorough course is given in the use of law books in which the student learns by practice where to find the law.

## **COURSES OF INSTRUCTION**

The course of study extends over a period of three years and is so arranged as to require a total of 126 credits. No student will be allowed credit in any one quarter for over fifteen hours' work in the School of Law; except that in addition, within the discretion of the Dean, a student may be allowed to take an examination to remove a condition and be given credit upon satisfactory passage of the same. All first year work and, in addition, the courses in Pleading and Practice Court are required of all candidates for the degree. Aside from the two courses mentioned, all other courses in the second and third years are elective. The curriculum is designed to afford a preparation for the practice of law in any state, and at the same time special attention will be given in all courses to the codes and decisions of Montana and the western states.

### **Examinations**

Where courses extend over one quarter, credit is provisional upon the completion of and final satisfactory examination over the whole course. In continuous courses examinations will also be given at the end of the first quarter. Conditions may be removed only in the regular examinations at the end of a repetition of the course.

"Senior Examinations" covering the entire field of concentration will not be given.

## CURRICULUM

## FIRST YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Contracts .....	3	3	3
Property I .....	3	3	...
Torts .....	3	3	...
Criminal Law and Procedure.....	4	2	...
Principles of Liability .....	...	...	4
Forms of Action .....	...	3	...
Agency .....	...	...	5
Property II .....	...	...	3

## SECOND AND THIRD YEARS

Legal Ethics .....	...	2	...
Pleading .....	2	...	...
Equity .....	2	...	...
Evidence .....	3	...	...
*Irrigation Law .....	...	3	...
Wills and Administration .....	3	...	...
**Mining Law .....	...	3	...
Private Corporations .....	...	...	...
Trusts .....	3	...	...
Sales .....	2	...	...
Practice Court .....	2	...	...
Appellate Practice .....	1	1	1
Conflict of Laws .....	2	2	2
*Public Utilities .....	...	...	4
**Persons .....	...	...	3
**Bills and Notes .....	...	...	5
*Partnership .....	...	...	3
Constitutional Law .....	3	3	...
Suretyship and Mortgages .....	2	2	2
Use of Law Books .....	1	1	...

Courses marked \* will be given in 1927-28.

Courses marked \*\* will be given in 1928-29 but not in 1927-28.

In addition to the above curriculum, second and third year students taking International Law in the Department of History and Political Science may apply credit received in it toward their law degrees.

## DESCRIPTION OF COURSES

## First Year

**Contracts.** Offer and acceptance; consideration; contracts for benefit of third persons; assignment of contracts; joint obligations; Statute of Frauds; express and implied conditions; impossibility; illegal contracts; discharge of contracts, including agreement to discharge, novation, release, etc. Williston's Cases on Contracts. Second Edition. Mr. Leaphart.

**Property I.** Nature of possession; acquisition of title to personal property by Statute of Limitations, accession, confusion, gifts, and judgments. The bailee's and finder's rights in property, together with a consideration of the rules of common law liens and pledges. Conversion of chattels. Introduction to the law of real property. Tenure, estates and conveyances. Fixtures and waste. Easements and covenants running with land. Warren's Cases on Property. Mr. Toelle.

**Torts.** Assault and battery; imprisonment, negligence, contributory negligence; liability for animals; duties of land-owners; nuisance; violation of statutory duty; deceit; malicious prosecution; libel and

slander; interference with advantageous relations, including unfair competition, strikes, boycotts, business combinations. Ames and Smith Cases on Torts. (Pound's Edition.) Mr. Toelle.

**Criminal Law and Procedure.** Sources of Criminal Law; nature of crimes, analysis of criminal act and criminal intent; defenses; analysis of particular crimes; jurisdiction; criminal actions; complaint and warrant; preliminary hearing; grand jury and indictment; information; arraignment and plea; order of trial; judgment and punishment. Emphasis on Penal Code of Montana. Beale's Cases on Criminal Law. Mr. Colvin.

**Principles of Liability.** Legal liability based upon an act. The law of proximate cause as found in torts, criminal law, damages, insurance, and contracts. Liability for agents, for animals, and for damages under "Civil Damage" acts. Liability under Workmen's Compensation Acts, with special attention to the Montana Workmen's Compensation Act. Permitted acts; general principles of justification and excuse. Beale's Cases on Legal Liability (2nd Edition.) Mr. Toelle.

**Forms of Action.** A study of the various forms of civil action including trespass, case, ejectment, detinue, replevin, trover, covenant, account, debt, special and general assumpsit and the proper pleading in causes under them. Cook and Hinton's Cases on Common Law Pleading. Mr. Colvin.

**Agency.** Includes master and servant. Introductory principles; nature of the relationship; appointment; when the principal is liable to third parties when the agent has acted in case of torts, crimes and contracts; liability of principal to agent; liability of the agent to his principal; liability of the agent to third parties; workmen's compensation and employers' liability acts; doctrines of undisclosed principal; delegation by an agent; ratification; termination of the agency. Mechem's Cases on Agency (2nd Edition). Mr. Pope.

**Property II.** Methods of conveyancing at common law, under the Statute of Uses and under modern statutes; original acquisition by disseisin; adverse possession, prescription and accretion; execution and delivery of deeds; description of property conveyed; creation of easements by implication; covenants for title; estoppel by deed; recording acts. Aigler's Cases on Titles. Mr. Toelle.

### Second and Third Years

**Legal Ethics.** History of the development of the legal profession in England and the United States; requisite educational, mental, and moral equipment of a lawyer. Duties and responsibilities of lawyers to each other, the courts, their clients and the public; pecuniary relations of lawyers and clients. The American Bar Association's Canons of Professional Ethics. Costigan's Cases on Legal Ethics. Mr. Toelle.

**Pleading.** The subject is studied primarily from the standpoint of the Code of Civil Procedure in force in Montana. Topics covered are as follows: Parties; the complaint; splitting and joinder of causes of action; answers; demurrers, replies; various motions; bills of particulars; amendment and aid. Sunderland's Cases on Code Pleading. The Montana Code of Civil Procedure. Mr. Toelle.

**Equity.** Nature of equity jurisdiction; specific performance; the Statute of Frauds; defenses to specific performance because of plaintiff's conduct; laches, fraud; misrepresentation, concealment and unfairness; failure to make good title; effect of mistake and hard bar-

gains; mutuality of remedies, and want of mutuality; relief for and against third parties; bills for an account. Specific reparation and prevention of torts; waste, trespass, disturbance of easements, nuisance, interference with business. Ames' Cases in Equity Jurisdiction. Vol. I. Mr. Leaphart.

**Evidence.** The theory of evidence; rules governing admissibility; the hearsay rule and its exceptions; opinion evidence; the parol evidence rule, and the rules governing the introduction and interpretation of documents; the methods of producing evidence; the attendance of witnesses; their examination; cross-examination, impeachment and confirmation; evidence before trial; the respective functions of judge and jury; the burden of proof and presumptions; judicial notice and judicial admission; actual practice in introducing evidence. Thayer's Cases on Evidence (Revised Edition). Mr. Whitlock.

**Irrigation Law.** This course traces the genesis and development of the law of water rights in the west; how rights to the use of water may be acquired and retained, and generally, the law of water rights as applied to irrigation, mining, manufacturing, and the generation of power with special reference to Montana law. Selected cases. Mr. Pope.

**Wills and Administration.** Testamentary capacity and intent, types and execution of wills; revocation; republication and revival; administration of estates, including granting and revocation of administration, title and powers of executors and administrators, payment of legacies and distributive shares; probate procedure in Montana. Costigan's Cases on Wills and Montana Code. Mr. Toelle.

**Mining Law.** Lodes; placers; locators; discovery; location; tunnel sites; conditions of retention of claims, subsurface rights; adverse claims; patents; oil, gas, and other mining leases; tenancies in common and mining partnerships. Costigan's Cases on Mining Law. Mr. Pope.

**Private Corporations.** Corporations distinguished from partnerships and joint stock companies; disregarding the corporate fiction; formation of corporations; powers of corporations; de facto corporations; ultra vires acts of corporations; rights and liabilities of directors, promoters, creditors and shareholders; rights of minority shareholders; shares of stock; transfer; assessment; voting trusts; foreign corporations; corporate forms. Warren's Cases on Corporations (2nd Ed.). Mr. Pope.

**Trusts.** Nature and requisite of trusts and the distinction between trusts, debts, and other legal relations; the language necessary to the creation of a trust; the question of consideration; the effect of the Statute of Frauds and of Wills; the elements of a trust, including the subject matter, the trustee and the cestui; charitable trusts; resulting and constructive trusts; remedies of the cestui against the trustee; transfer of the interest of the cestui; the persons bound by a trust; liabilities of the trustee to third persons; duties of trustees as to investments. Scott's Cases on Trusts. Mr. Leaphart.

**Sales.** Subject matter of sale at law and in equity; executory and executed sales; effect of fraud and related matter; special rights and remedies of the seller and of the buyer; Statute of Frauds; Uniform Sales Act. Williston's Cases on Sales. Mr. Colvin.

**Practice, Court.** Each student is required to try without assistance at least two civil jury cases during the year. Separate abstracts of testimony, as nearly as possible in the form in which a case is presented to a lawyer in his office, are given the respective student-

counsel. The student must, from his abstract, decide upon his remedy or defense, draw and file pleadings, serve process, and try his case without deviation from the requirements of the Code of Civil Procedure and the rules of the Missoula County District Court. A jury is impaneled in each case and the instructor presides at all trials. All students are required to be present at all trials. Montana Code of Civil Procedure, selected cases, and practical exercises. Mr. Pope.

**Appellate Practice.** The appellate jurisdiction in civil actions is considered, what judgments, orders and proceedings may be appealed from, parties who may appeal, time within which appeal may be taken, extent of review and the various steps by which the appeal is taken. Actual practice will be given in preparing the record proper and bills of exceptions. Besides this, extraordinary remedies will be studied, such as Writ of Habeas Corpus and the Montana Writ of Supervisory Control. Selected Cases on Appellate Practice. Mr. Whitlock.

**Conflict of Laws.** Legal units, extent of legislative power, comity, and other fundamental conceptions. Domicile. Jurisdiction for taxation. Jurisdiction of courts. The creation of rights in contract and tort; capacity, and other personal rights. The creation of rights in property; transfers inter vivos and by inheritance. The recognition and enforcement of rights; foreign executors and administrators; the nature, obligation and effect of judgments. Beale's Cases on Conflict of Laws. (1903 3 Vol. Ed.) Mr. Whitlock.

**Public Utilities.** Part I: Rights, privileges, powers, immunities, duties, liabilities and disabilities of public service agencies, including rules laid down by common law, statutory law and commission regulations on service and rates charged for service. Part II: Law peculiar to common carriers and innkeepers. Burdick's Cases on Public Service, Common Carriers and Innkeepers.

**Persons.** Marriage, the contract, the relationship, its dissolution, the proposed Uniform Divorce Act; Parent and child; the natural relationship, the relationship by adoption, legitimacy, emancipation; Infancy, contracts, torts and crimes of infancy; Insanity and mental weakness, contracts, torts and crimes of insane persons; Drunkenness, contracts, torts and crimes of drunken persons; Aliens, friends and enemies. Each division of the subject is taken up in the light of the common law, Montana statutes and Montana decisions. Woodruff's Cases on Domestic Relations. Mr. Colvin.

**Bills and Notes.** This subject is studied from the standpoint of the negotiable instruments law which is in force in Montana, and in most of the other states. Negotiability, form and inceptions of bills and notes, acceptance, delivery consideration, negotiation, rights and liabilities of the various parties, presentment, dishonor, and discharge. Smith & Moore, Cases on Bills and Notes. Mr. Colvin.

**Partnership.** Nature and creation of a partnership; partnership property; firm name and good will; duties, and liabilities of partners inter se; powers of partners and liabilities of the partnership for their acts; dissolution and distribution of assets; limited partnerships. Mechem's Cases on Partnership. (4th Ed.) Mr. Colvin.

**Constitutional Law.** Study of state and federal constitutional law with special reference to Montana's constitution. Adopting and amending constitutions; effect of unconstitutional laws; separation of powers; delegation of powers; political and civil rights of individuals; rights

of persons accused of crime; due process of law; retroactive laws, including laws impairing the obligation of contract; general scope of federal powers. Hall's Cases on Constitutional Law. Mr. Colvin.

**Suretyship and Mortgages.** Guaranty; defenses of surety; rights of surety against principal or co-surety; subrogation, reimbursement, exoneration, contribution; rights of creditors to securities held by co-surety. Elements of mortgage; title and lien theory; equitable mortgages; conveyances absolute in form; rights and duties of mortgagor and mortgagee; dower and courtesy; limitation on redemption; clogging the equity; assignment of mortgages; marshalling the assets. Ames' Cases on Suretyship. Wyman's Cases on Mortgages. Mr. Leaphart.

**Use of Law Books.** How to find the law; use of the law library with special attention given to Montana statutes and decisions. Running down weight of authority in all states in the Union and England through textbooks, encyclopedias, digests, selected cases, codes and reports; practical problems in preparation of legal authorities for purpose of presenting question of law to court; analysis of facts for purpose of finding law; preparation of office and court briefs; presentation of questions of law to court orally and with brief. No book is used. Mr. Colvin.

**The following courses are given in the summer quarter only, but will not be given in 1927:**

**Quasi Contracts.** Nature of quasi contract; non-contractual obligations to pay money; unjust enrichment; benefits conferred by mistake of fact and of law; benefits conferred under a contract which has been partially performed by plaintiff or defendant; benefits conferred voluntarily and without contract; benefits conferred under compulsion. Thurston's Cases on Quasi Contract.

**Municipal Corporations.** Nature and functions of municipal corporations; creation, alteration and dissolution; legislative control; organization, departments and officers; powers, liability on contracts and torts; available remedies. Beale's Cases on Municipal Corporations.

**Labor Law.** Legality of Combination; federal jurisdiction over labor disputes; legality of means used by labor organizations; legality of ends pursued through collective action; lockouts; boycotts; the black list; the union label; organizers in non-union fields; incorporated and unincorporated unions; rights and liabilities of union members; trade agreements; injunction against labor organizations; the Thirteenth Amendment and injunction against strikes, regulatory labor legislation; compulsory arbitration; workmen's compensation laws. Sayre, Cases on Labor Law.

**Damages.** Respective functions of court and jury in estimating damages; exemplary liquidated, nominal, direct and consequential damages; avoidable consequences; counsel fees; certainty; compensation damages for non-pecuniary injuries; value, interest and damages in certain actions of tort and contract. Beale, Cases on Damages. (2nd Ed.)



# SCHOOL OF MUSIC

PROFESSORS, DeLOSS SMITH (Dean), A. HERMAN WEISBERG. ASSISTANT PROFESSORS, BERNICE BERRY, KATHLEEN MUNRO. BAND DIRECTOR AND INSTRUCTOR, ALBERT H. HOELSCHER. ORGANIST AND ACCOMPANIST, MRS. FLORENCE SMITH.

Pupils are accepted for private lessons in Music without limitation as to age and without the usual academic entrance requirements.

The School of Music does not give senior examinations except to candidates for Honors.

## Bachelor of Arts Course

The School of Music offers a course which will permit students to become candidates for the degree of Bachelor of Arts with a major in Music. Such students will be required to comply with all restricted elective requirements for the Bachelor of Arts degree, and will be allowed a maximum of 65 credits in Music toward the degree.

## BACHELOR OF ARTS COURSE WITH A MAJOR IN PUBLIC SCHOOL MUSIC

This course is for supervisors and teachers of music in the public schools. It covers a period of four years.

Students will do their observation work in the city schools of Missoula.

## SUGGESTED CURRICULUM

### FRESHMAN YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Harmony 19abc .....	2	2	2
Sight Singing and Ear Training 27abc.....	3	3	3
Applied (Voice, Violin, or Piano).....	1	1	1
Physics 11ab .....	5	5	5
Acoustics 41 .....	5	5	5
English or Foreign Language.....	1	1	1
Physical Education .....	1	1	1
Military Science (Men) .....	1	1	1
	18	18	18

### SOPHOMORE YEAR

Harmony and Counterpoint 21abc.....	2	2	2
Applied (Voice, Violin, or Piano).....	1	1	1
Music Appreciation 35ab .....	3	3	3
English 11b or Elective .....	4	4	4
Psychology .....	4	4	4
Educational Psychology .....	4	4	4
Music Education 33 .....	5	5	5
Foreign Language .....	5	5	5
Physical Education .....	1	1	1
Military Science (Men) .....	1	1	1
	17	17	17

## JUNIOR YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Forms and Composition 125abc.....	2	2	2
Music Education 123ab .....	3	3	.....
History of Music 31.....	.....	.....	5
Applied (Voice, Violin, or Piano).....	1	1	1
History or Sociology .....	4	4	.....
Principles of Education 18.....	.....	.....	3
Elective or Educational Psychology 19.....	4	.....	.....
School Hygiene 30 .....	.....	3	.....
Educational Elective .....	.....	.....	4
Elective .....	3	4	2
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	17	17	17

## SENIOR YEAR

Advanced Sight Singing 151.....	2	.....	.....
Music Education 155ab .....	.....	2	2
Instruments (Wood wind or Reed 129a; Brass 129b; Strings 129c).....	2	2	2
Education 22 (High School).....	4	.....	.....
Observation and Teaching 26 or Elective.....	.....	5	5
Applied (Voice, Violin, or Piano).....	1	1	1
Elective .....	5	5	5
	<hr/>	<hr/>	<hr/>
	14	15	15

**BACHELOR OF ARTS COURSE WITH A MAJOR IN  
APPLIED MUSIC**

**Suggested Curriculum**

The curriculum for the first two years is identical with the one for the Bachelor of Arts Course with a major in Public School Music.

## JUNIOR YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Forms and Composition 125abc.....	2	2	2
Applied (Voice, Violin, or Piano).....	2	2	2
History of Music 31 .....	.....	.....	5
History or Sociology .....	4	4	.....
Principles of Education 18.....	.....	.....	3
Educational Psychology or Elective.....	4	.....	.....
Elective .....	5	6	2
School Hygiene 30 .....	.....	3	.....
Educational Elective .....	.....	.....	4
	<hr/>	<hr/>	<hr/>
	17	17	18

## SENIOR YEAR

Advanced Appreciation of Music 153ab.....	3	3	.....
Applied (Voice, Violin, or Piano).....	2	2	2
Education 22 (High School) .....	4	.....	.....
History and Appreciation of Art.....	3	3	3
Education 26 or Elective.....	.....	5	5
Elective .....	2	2	5
	<hr/>	<hr/>	<hr/>
	14	15	15

Students who do not major in Music will not be allowed to exceed 27 credits in Music, which may be counted as a minor toward the B.A. degree. Not more than three credits obtained in ensemble work may be counted toward graduation.

Credit may be granted for study in applied music to any student eligible to register in general university courses, i. e., eligible to regular, conditional, or special entrance, without regard to the number of credits registered for, provided the work is not elementary in character.

Students in Applied Music may register at any time; credits to be determined by amount of work done.

### Applied Music (Voice, Violin, and Piano)

Fixed adherence to a given list of studies is not required. The needs of the individual students are considered and the studies varied accordingly.

**11. Voice.** 1 Q. Autumn. Winter. Spring. 1 or 2 cr. Summer.  $\frac{1}{2}$  or 1 cr. Individual instruction. Mr. Smith.

**12. Voice.** 1 Q. Autumn. Winter. Spring. 1 or 2 cr. One hour class lessons. Four in each class. Mr. Smith.

**13. Piano or Organ.** 1 Q. Autumn. Winter. Spring. 1 or 2 cr. Summer.  $\frac{1}{2}$  or 1 cr. Miss Berry, Mrs. Smith.

**14. Wind Instruments.** 1 Q. Autumn. Winter. Spring. 1 or 2 cr. Mr. Hoelscher.

**15. Violin.** 1 Q. Autumn. Winter. Spring. 1 or 2 cr. Summer.  $\frac{1}{2}$  or 1 cr. Mr. Weisberg.

### Ensemble Music

**37abc. Orchestra.** 3 Q. Entrance by consent of Director. Autumn, winter, spring.  $\frac{1}{2}$  cr. each quarter. Mr. Weisberg.

**39abc. University Band.** 3 Q. Autumn, winter, spring. No credit.

**41abc. Women's Glee Club.** 3 Q. Autumn, winter, spring.  $\frac{1}{2}$  cr. each quarter. Miss Munro.

**43abc. Men's Glee Club.** 3 Q. Autumn, winter, spring.  $1\frac{1}{2}$  cr. Continuous. Mr. Smith.

**45abc. Choral Society.** 3 Q. Autumn, winter, spring.  $\frac{1}{2}$  cr. each quarter. Open to all students possessing good voices. Oratorios, cantatas, and part songs are studied and performed in recitals and concerts during the season. Mr. Smith.

**Recitals.** Student recitals are given at intervals during the year. The object is to afford opportunity for the students to apply in public the proficiency that has been developed in the studio.

Students must obtain consent of instructors before performing in public.

### Music Courses

**19abc. Harmony.** 3 Q. Autumn, winter, spring. 2 cr. each quarter. Construction and use of triads in major and minor keys, inversion of triads, cadences, dominant seventh chords and their inversions. Mr. Weisberg.

**21abc. Harmony and Counterpoint.** 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, Harmony 19c. Modulation, secondary seventh chords, counterpoint, diminished seventh chord, augmented chords and suspensions. Mr. Weisberg.

**27abc. Sight Singing and Ear Training.** 3 Q. Autumn, winter, spring. 3 cr. each quarter. Summer. 2½ cr. Beginning sight singing, including one, two, three, and four-part work, melody writing, melodic and harmonic dictation, notation and terminology. Miss Munro.

**31. History of Music.** 1 Q. Spring. 5 cr. An intensive course which traces the development of music as an art from primitive times to the modern. Miss Munro.

**33. Music Education.** 1 Q. Spring. 5 cr. Summer. 2½ cr. Prerequisite, 27c. A basic course including material used in the eight grades and the various methods of approach in its presentation; testing and care of the adolescent voice; principles of conducting. Miss Munro.

**35ab. Appreciation of Music.** 2 Q. Autumn, winter. 3 cr. each quarter. Summer. 2½ cr. Prerequisite, sophomore standing. A course in music understanding. Its aim is to give the fundamental principles of intelligent listening and to build up a knowledge of music repertory which should be the possession of every cultured person. No previous knowledge of music is required. Miss Munro.

**47abc. Normal Training for Piano Teachers.** 3 Q. Autumn, winter, spring. 1 cr. each quarter. Prerequisite, junior standing in the School of Music. A study of modern principles in piano teaching. The work is presented in class. Observation and supervised practice teaching. Miss Berry.

**123ab. Music Education.** 2 Q. Autumn, winter. 3 cr. each quarter. Prerequisite, Music 33. Place, aim, and methods of public school music as based upon social, educational, psychological, and aesthetic principles. Detailed study of modern school music series. Miss Munro.

**125abc. Forms and Composition.** 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, Music 21c. The section, phrase, period, two-part form, three-part form, sonatina form, rondo form, and sonata form. Mr. Weisberg.

**129ab. Instruments.** 2 Q. Autumn, winter. 2 cr. each quarter. Prerequisite, 125c. Characteristics, use and practical instrumentation of instruments of the modern orchestra and band. Autumn quarter, wood-wind; winter quarter, brass. Mr. Hoelscher.

**129c. Instruments.** 1 Q. Spring. 2 cr. Prerequisite, 129b. Compass, characteristics, and use of string instruments in the small and large orchestra. Mr. Weisberg.

**151. Advanced Sight Singing.** 1 Q. Autumn. 2 cr. Prerequisite, 27c. Singing, recognition, and writing of more difficult melodies, modulations, altered chords, and embellishments. Miss Munro.

**153ab. Advanced Appreciation of Music.** 2 Q. Autumn, winter. 3 cr. each quarter. Prerequisite, 35ab. An intensive course which, presupposing the music acquaintance with musical examples, aims to familiarize the student with the characteristics of the foremost composers from Bach to the present time. Miss Munro.

**155ab. Music Education.** 2 Q. Winter, spring. 2 cr. each quarter. Prerequisite, 123ab. Special supervisory problems involving formulation of courses of study, organization of glee clubs, bands, and orchestras, the teaching of appreciation, music in the Junior and Senior High Schools, and the relation of the supervisor to the community. Miss Munro.

**159abc. Polyphonic Forms and Composition.** 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, 125c. Invention and Fugue. May be elected the senior year. Mr. Weisberg.

**Tuition**

One quarter (12 weeks), two lessons a week, piano, voice,  
violin (Miss Berry, Mr. Smith, Mr. Weisberg).....\$48.00

One quarter (12 weeks), one lesson a week, piano, voice, violin  
(Miss Berry, Mr. Smith, Mr. Weisberg).....\$24.00

Students registered for less than a full quarter will be charged at  
the rate of \$2.25 per lesson.

One quarter (12 weeks), two lessons a week, piano (Miss  
Munro) .....\$36.00

One quarter (12 weeks), one lesson a week, piano (Miss Munro) \$18.00

One hour class lesson in voice, four in each class, two lessons  
a week (Mr. Smith). For one quarter.....\$20.00

One hour class lesson in voice, four in each class, one lesson a  
week (Mr. Smith). For one quarter.....\$12.00

Harmony, two class lessons a week.....\$ 3.00

Piano practice on University pianos may be arranged for at the  
following rate:

One hour daily, a quarter.....\$ 3.00

Each additional hour .....\$ 2.00

Practice room for violin students:

One hour daily, a quarter.....\$ 1.00

Each additional hour .....\$ .50

Rent for pianos and practice rooms must be paid for full quarter.  
No refunds will be made on rent for pianos or practice rooms.

Sight singing and public school music is free to all students paying  
the regular registration fees. A fee of \$5.00 will be charged all others  
desiring to take this course.

No absence from lessons will be excused. Lessons lost through  
fault of teacher will be made up. Lessons falling on legal holidays  
will not be made up.

In any case where a student withdraws from a course in voice,  
piano, or violin, the University will charge for the lessons taken at  
the rate for individual lessons and refund any balance.

# SCHOOL OF PHARMACY

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PROFESSOR, CHARLES E. F. MOLLETT (Dean). INSTRUCTOR, JOHN F. SUCHY.

The purpose of the School of Pharmacy of the State University of Montana is to assist in advancing the science of pharmacy and to afford opportunities for students within the state to obtain a thorough technical education in pharmacy. Splendid opportunities exist in this state for men and women who are well trained in the principles of pharmacy and their practical application.

The school is a member of the Conference of Faculties of the American Pharmaceutical Association.

The students of the School of Pharmacy maintain a Pharmacy Club for the purpose of stimulating interest in matters of practical importance. Monthly meetings are held and talks given upon various topics by the instructors, students, practicing pharmacists, and others.

## **The Fairchild Scholarship**

Second year students of this school are eligible to compete for the Samuel W. Fairchild scholarship, amounting to \$300 in cash. The examinations will be held annually at the University in June. Students desiring to compete for this should apply to the Dean not later than May 1.

## **Prizes in Pharmacy**

Three prizes are awarded annually upon the recommendation of the dean of the school. The first is a gold key given by the Kappa Psi National Pharmacy fraternity; the second is a gold medal, equivalent in size and value to a twenty-dollar gold piece, given by Lehn & Fink of New York; and the third is life membership and dues in the National Association of Drug Clerks to each of the three students rating highest in the three major divisions of Pharmacy.

## **Requirements for Admission**

All applicants for admission must meet the regular entrance requirements of the University described on pages 26-29.

## **COURSES AND DEGREES**

Although a three-year course is given, students are encouraged to complete the four-year pharmacy course leading to the regular Bachelor of Science degree in Pharmacy. In this course, the student is required to carry work in foreign language, literature, history and

economics, to the extent required in the college of arts and sciences. If desired, more specialized courses can be arranged with additional work in physics, chemistry, biology, botany, economics, or business administration. Thus it is possible to complete all the courses required to enter any recognized medical college and to secure the Bachelor's degree in Pharmacy.

### Three-Year Course

1. For the degree of Pharmaceutical Chemist (Ph.C.) 141 credits are required. These must include 69 credits in Pharmacy; English 11ab; Chemistry 11 and 15a, or Chemistry 13; Chemistry 19; Biology 24a or Biology 26; Biology 19a or 16; two quarters of Foreign Language but not required if the bachelor's requirement is fulfilled; Physical Education 11 and 12; and Military Drill 11 and 12 (for men).

### Four-Year Course

2. For the degree of Bachelor of Science in Pharmacy (B.S.) 180 credits are required in addition to the required courses in Physical Education. These must include 9 additional credits in Pharmacy, and the other prescribed work for the degree of Pharmaceutical Chemist; and also the restricted electives required by the College of Arts and Sciences.

Except in cases of physical disability, Military Drill for men and Physical Education for men and women are compulsory courses for all students.

### Senior Examinations

Senior examinations are not required, but all students must pass the Montana State Licensing examination. This permits them to register in 45 states without further examination.

### Medicinal Plant Garden

As an important addition to the equipment in pharmacy, a small plot is devoted to the raising of medicinal plants for the purpose of study and research and to provide material for laboratory use of students in the courses of pharmacognosy, manufacturing pharmacy, and drug analysis. Here the student can become acquainted with the growth and characteristics of the official drug plants found in Montana, as well as a number of those successfully introduced from other states. The enterprise has received assistance from the Bureau of Plant Industry of the United States and from a number of schools of pharmacy of other states which have well-established gardens.

## CURRICULUM

## FIRST YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
English 11a .....	.....	.....	5
Chemistry 11, General .....	5	5	5
Pharmacy 11, General .....	5	5	5
Pharmacy 12, Metrology .....	2	1	.....
Pharmacy 13, Pharmaceutical Botany and Pharmacognosy .....	3	3	3
Physical Education .....	1	1	1
Military Drill (men) .....	1	1	1
	16-17	15-16	19-20

## SECOND YEAR

English 11b .....	.....	.....	3
Chemistry 19, Organic .....	.....	5	.....
Biology 24a, Physiology .....	4	.....	.....
Pharmacy 21, Materia Medica .....	4	4	4
Pharmacy 22, Drug Analysis .....	4	4	4
Pharmacy 27, Commercial .....	2	2	2
Elective .....	.....	.....	3
Physical Education .....	1	1	1
Military Drill (men) .....	1	1	1
	15-16	16-17	17-18

## THIRD YEAR

Biology 19a, Bacteriology .....	5	.....	.....
Chemistry, Qualitative .....	.....	.....	5
Pharmacy 25, Dispensing .....	4	4	4
Pharmacy 31, Pharmacology .....	1	1	1
Pharmacy 33, Abstracts .....	2	2	2
Foreign Language .....	5	5	.....
Elective .....	.....	5	5
	17	17	17

## DESCRIPTION OF COURSES

**11. General Pharmacy.** 3 Q. Autumn, winter, spring. Continuous. 15 cr. Prerequisite, Chemistry 11abc, or equivalent or may be taken simultaneously. A critical study of pharmaceutical literature, apparatus, processes, and of the preparations in the United States Pharmacopoeia and National Formulary, together with laboratory training in these processes and in the manufacture of the more important of these preparations. Lectures and recitations, 9 cr.; laboratories, 6 cr. Mr. Suchy.

**12. Metrology.** 2 Q. Autumn, winter. Summer. 3 cr. A study of the official weights and measures and of important pharmaceutical calculations. Recitations. Mr. Suchy.

**13. Pharmaceutical Botany and Pharmacognosy.** 3 Q. Autumn, winter, spring. Continuous. 9 cr. A study of pharmaceutical botany and of crude vegetable and animal drugs, their sources, identification, constituents, preparations, official names and synonyms. Mr. Mollett and assistant.

**15. Pharmacognosy.** 1 Q. Autumn. Spring. Summer. 3 cr. Prerequisite, a course in high school or college botany, or Pharmacy 13a. Field pharmacognosy. The official indigenous drug plants and those being grown in the medicinal garden will be studied. The propagation of drug plants will be studied and methods of selection and preservation of the parts used in pharmacy will be carried out by the student. Mr. Mollett.



21. **Materia Medica.** 3 Q. Autumn, winter, spring. Continuous. 12 cr. Prerequisite, Pharmacy 11, 12, 13. Should be preceded by or taken with Biology 24a, and Chemistry 19, or equivalent courses. The official inorganic and organic compounds and preparations are studied with regard to nomenclature, course and preparation, physical properties, and pharmaceutical uses. This course also includes instruction in therapeutics and toxicology. Lectures and recitations. Mr. Mollett and assistant.
22. **Drug Analysis.** 3 Q. Autumn, winter, spring. Continuous. 12 cr. Prerequisite, Pharmacy 11, 12, 13. Students may be admitted to first quarter without 11 and 12, or to winter and spring quarters without the first quarter. Microscopical and chemical analysis of vegetable drugs and chemical analysis of inorganic and organic drugs and preparations according to the methods of the United States Pharmacopoeia and National Formulary. Lectures, recitations, and laboratories. Mr. Suchy and assistant.
23. **Materia Medica.** 3 Q. Autumn, winter, spring. Continuous. 6 cr. Summer. 4 cr. This course is intended to familiarize the students with the character, use, action and methods of administration of the commonly used medicines. Open only to students of sophomore standing preparing themselves for medical, dental, or nurses' courses. Text: Blumgarten. Mr. Mollett and assistant.
25. **Dispensing.** 3 Q. Autumn, winter, spring. Continuous. 12 cr. Prerequisite, Pharmacy 21 and 22. A technical study of all phases of the prescription, practical exercises at sight reading, and the arts of extemporaneous compounding. Lectures, recitations, and laboratories. Mr. Suchy and assistant.
27. **Commercial.** 3 Q. Autumn, winter, spring. Continuous. 6 cr. Prerequisite, Pharmacy 11 and 12. A study of the commercial problems of the modern pharmacy. The student will be assigned readings in the current drug journals. Mr. Mollett.
31. **Pharmacology.** 3 Q. Autumn, winter, spring. Continuous. 3 cr. Prerequisite, Pharmacy 21. An advanced study of the physiological action, uses and biological assays of official drugs. It also includes the study of new and non-official remedies. Mr. Mollett.
- 33abc. **Abstracts.** 3 Q. Autumn, winter, spring. 2 cr. each quarter. Summer. 2-4 cr. Students may enter course any quarter. Prerequisite, Pharmacy 27. The preparation of abstracts and the reading and discussion of articles in current pharmaceutical literature. Mr. Mollett and assistants.
35. **Advanced Analysis.** 1 Q. Spring. 2 cr. Prerequisite, Pharmacy 11, 13, 23, 25, 27. Two credit hours per week are devoted to the study and analysis of pathological secretions and products of the human body, stomach content and poisons, including microscopical examinations. Elective for three and four-year pharmacy students. Mr. Suchy and assistant.
38. **Special Problems.** 3 Q. Autumn, winter, spring. 2 to 6 cr. Summer. 3 cr. Open to third and fourth year students in pharmacy. Work on special pharmacy problems which come within the scope of the facilities of the department and which meet the needs and qualifications of the student. Mr. Mollett, Mr. Suchy.

## Summer Session

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The Summer Session of the State University of Montana for 1927 will be a nine-weeks' session, beginning June 20 and ending August 19. It will be divided into three terms of three weeks each. The School of Music, the Department of Fine Arts, and the affiliated School of Religion will continue for the first six weeks only.

### Courses

The departments of the College of Arts and Sciences, which will offer courses during the Summer Session are: Biology, Botany, Economics and Sociology, Education, English, Fine Arts, Foreign Languages, History and Political Science, Home Economics, Library Economy, Mathematics, Physical Education, and Psychology; the departments of Chemistry, Geology and Physics will offer a combined course of modern developments in physical science. The Schools of Business Administration, Journalism, Music, Pharmacy, and the affiliated School of Religion will also offer courses.

### Admission

Requirements for admission to the Summer Session are the same as the requirements for entrance during the regular college year. (Pages 26-29.)

### Credit Toward Degrees

University credit toward degrees is given to those who satisfy the regular entrance requirements. The normal schedule which may be carried during the nine weeks of the session is 12 credits; the maximum registration for six weeks is  $7\frac{1}{2}$  credits; and for three weeks, 3 credits. Permission to carry more than this number is granted only for special reasons.

Residence requirements for the bachelor's degree may be fulfilled by four summer sessions of nine weeks each, during which time the student must complete at least forty-five quarter credits. Of the last forty-five credits required for graduation, thirty-five credits must be earned in residence in the University.

### Credit Toward Teachers' Certificates

Courses required for all grades of Montana teachers' certificates, including five for the second grade certificate, will be given. One-half of the Montana legal requirement of twenty-four credits of normal training may be satisfied by completing the normal amount of work during the session if two-thirds of the work taken is in certificate subjects; the requirements can be fully met by attending two nine-weeks' sessions.

### **Graduate Work**

During the Summer Session, properly qualified students may do work toward the master's degree. Residence requirements for the master's degree may be fulfilled by three summer sessions of nine weeks each provided the student meets regulations governing graduate study and the granting of the master's degree. (See pages 130-32.)

### **Certificate of Attendance**

Students in the Summer Session who are not eligible to receive University credit will, upon request to the Registrar, receive a certificate of attendance for courses satisfactorily completed.

### **Recreation**

An attractive feature of the Summer Session is the recreational program, which includes organized week-end excursions and camping trips, picnics, campfire parties, golf, tennis, baseball and swimming. The pleasant summer climate and picturesque mountain country of western Montana provide an ideal background for a combination of study and recreation.

## Biological Station

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A station for instruction and research is located at Yellow Bay on the east shore of Flathead Lake. The University owns 89 acres at Yellow Bay with nearly a mile and a half of shore line, 40 acres on Wild Horse island and 40 acres on Bull (Idlewilde) island. The Flathead Lake Bird Reservation consists of two islands donated to the state as a bird reserve. These islands are under control of the station, protected by state law. All of this land is for biological use. The station is accessible by automobile road or by boat from either end of the lake, connecting with the Great Northern railroad at Somers and Northern Pacific at Polson. During the year 1926 daily stage service either way from Kalispell to Polson, passing the station grounds, was operated.

The building equipment of the station consists of a substantial brick laboratory, a log dining building, a kitchen and a group of sleeping tents. The station has a 30-foot gasoline boat, a row boat, and collecting apparatus and laboratory instruments necessary for research work.

The station is located in virgin forest between the lake and the Mission mountains, which rise to an altitude of 8,500 feet at this point. Forest, lake, and mountains afford an attractive and, to a great extent, an unexplored field for biological research.

It is the purpose of the biological station to provide opportunity for field work of a sort which cannot be done in the routine of a university program. Instruction is limited to prescribed work for beginners, but qualified students may select their own lines of research.

Credit for equivalent university work is given.

The station was not open in 1926 owing to an insufficiency of funds. It will not be in operation in 1927.

# Register of Students

## 1926-1927

(Includes all students at the State University in actual residence in all schools and colleges.)

### Abbreviations

Curriculum	Rank
AS—College of Arts and Sciences	Sp.—Special
Bus. Ad.—School of Business Administration	Fr.—Freshman
For.—School of Forestry	So.—Sophomore
Jrl.—School of Journalism	Jr.—Junior
Law—School of Law	Sr.—Senior
Mus.—School of Music	Gr.—Graduate
Pharm.—School of Pharmacy	
SQ—Summer Quarter	
Uncl.—Unclassified	
lr—Limited Registration, students enrolled for less than six credits.	

Quarters in Attendance: 1, Autumn Quarter; 2, Winter Quarter; 3, Spring Quarter; 4, Summer Quarter, 1926.

Students whose names are marked with an asterisk (\*) died while in attendance.

Classified as of May 1, 1927.

Name	Curriculum	Rank	Quarters in Attendance	Residence
Abel, Herbert	Bus Ad	Sr.	1,2,3	Saco
Abell, Henry Chaffee	For	Jr.	1,2,3	Riley, Kansas
Acher, Arthur Pierpont	Law	Sr.	1,2,3	Zurich
Ackerly, Ruth Susan	AS For Lang	Sr.	1,2,3	Danvers
Adams, Annie Marie	SQ		4	Corvallis
Adams, Barks Lancaster	For	Jr.	1,2,3	Thompson Falls
Adams, David Ray	Journ	So	1,2,3	Missoula
Adams, Geraldine	SQ		4	Missoula
Adams, Harry F., B.A.	SQ (lr)		4	Missoula
Adams, Lilah	Mus Sp		4,1,2,3	Missoula
Adams, Roy	AS	Fr.	1	Kalispell
Adams, Sylvia Irene	SQ		4	Missoula
Adams, Winona Josephine, B.A.	Mus Sp		2,3	Idaho Falls, Idaho
Adamson, John Wesley	For	Fr.	1,2	Ronan
Adderholt, Roy M.	AS Pre-Bus Ad	So	2,3	Missoula
Ager, Howard Carl	AS	Fr.	1,2,3	Billings
Ahlgreen, Carl Adolph, Jr.	AS Pre-Legal	So	2	Ronan
Aiken, Helen	SQ		4	Glendive
Ainsworth, Addis Loraine	AS Hist	Sr.	1,2,3	Thompson Falls
Aiton, John Ferdinand	For	Fr.	1,2,3	Bedford, Iowa
Akin, William F.	SQ (lr)		4	Missoula
Akins, Willard Cresap	AS Pre-Bus Ad	So	1,2,3	Lewistown
Alcorn, Emma Maie	SQ (lr)		4	Billings
Alderman, Sam Irving	AS	Fr.	1,2,3	Butte
Alderson, Charles Alfred	Journ	Fr.	1,2,3	Bozeman
Allen, George Jackson	AS Pre-Legal	Jr.	1,2,3	Livingston
Allen, John Henry	AS Fine Arts	Jr.	1,2,3	Billings
Allen, Robert Henderson	AS	Fr.	1,2,3	Virginia City
Alley, John Campbell	AS	Fr.	1,2,3	Butte
Alling, Frank Brown	AS Geol	So	1,2,3	Sidney
Alling, Ira Robert	Journ	Sr.	4,1,2,3	Sidney
Allman, Vivian Mae	AS	Fr.	1,2,3	Gasgow
Ammer, Mildred Frances	AS For Lang	Sr.	1,2,3	Missoula
Anderson, Andrew Geddes	Journ	So	1,2,3	Harlowton
Anderson, August	For	Sp.	1	Shawano, Wisconsin

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Name	Cur-riculum	Rank	Quarters in Atten-dance	Residence
Anderson, Eleanor Stephen-son (Mrs.)	AS Engl	Sr	1,2,3	Missoula
Anderson, Ernest Palmer	AS	Fr	1,2	Nibbe
Anderson, Florence E	AS Bot	Sr	1,2,3	Edgeley, N. Dak.
Anderson, Homer Elsworth	For	Sr	1,2,3	Missoula
Anderson, May Lillian	SQ		4	Franksville, Wisconsin
Anderson, Oscar Wallace	AS	Fr	1,2,3	Billings
Anderson, William Olaf	AS	Fr	1,2	Missoula
Andrett, Edmund	AS	Fr	2	Missoula
Andrew, Berence Morse (Mrs.)	SQ		4	Denton
Andrew, William Everett	AS	Fr	1,2,3	Hot Springs
Andrews, David Robert	AS Math	Sr	1,2,3	Missoula
Andrews, Thelma Mae	Bus Ad	Jr	1,2,3	Missoula
Angland, Thomas Anthony	AS Pre-Med	So	1,2,3	Great Falls
Angland, William Benjamin	Bus Ad	Jr	2,3	Great Falls
Anglemyer, Earl Llewellyn	AS Educ	Sr	4,1,2,3	Compton, Illinois
Arndt, Mary Ethel	AS	Fr	1	Springdale
Arndt, Paul Frank	Pharm	Sr	1	Great Falls
Arnot, Dale Marian	AS Hist	So	1,2,3	Conrad
Aronowsky, Louis Bernard	Law	Sr	1,2,3	Washington, D. C.
Arrison, Ruth Lillian	SQ (lr)		4	Rudyard
Arthur, Julia Downing	SQ		4	Great Falls
Arthur, Margaret Mary	SQ		4	Great Falls
Arthur, Nora A.	SQ		4	Twodot
Ashbaugh, Leonard John	For	So	1,2,3	Clear Lake, S. D.
Asher, Mary Edith	AS	Fr	1,2,3	Harlem
Aslanian, Melanie O.	AS	Fr	1,2,3	Missoula
Astle, Edwin Paul	Journ	Fr	1,2,3	Hardin
Astle, Pauline Louise	AS Engl	Jr	1,2,3	Hardin
Austin, Harold Burdall	SQ		4	Paris
Averill, Clarence Campbell	For	Jr	1,2,3	Missoula
Ayers, Elnore Margaret	AS Pre-Legal	So	1,2,3	Lewistown
Baggs, Florence Elizabeth	SQ		4	Stevensville
Bailey, Franklin Edward	AS	Fr	2,3	Missoula
Bailey, Gertrude Florence	AS	Fr	1,2,3	Red Lodge
Bailey, Henry	Law	Sr	1,2,3	Missoula
Bailey, Rozetta M.	SQ		4	Conrad
Bailly, Dorothy Anne	Mus Sp		1,2,3	Missoula
Baker, Alfred Henry	SQ		4	Thompson Falls
Baker, Gilbert Mayes	Bus Ad	Sr	1,2,3	Helena
Baker, John Clayton	AS Pre-Bus Ad	So	1,2,3	Helena
Bakke, Clarence Oliver	AS	Fr	1	Butte
Bakkeby, Olga Borghild	AS For Lang	Sr	1,2,3	Anaconda
Baldwin, Carl Walter	AS	Fr	1,2,3	Stevensville
Baldwin, Raleigh Augus-tine, B.A.	AS Math	Gr	1,2,3	Missoula
Baney, Force Frank	Bus Ad	Sr	1,2,3	Libby
Barber, Paul Clinton	SQ		4	Athol, Idaho
Barfell, Paul J.	Journ	So	1,2	Missoula
Barker, Frank C.	SO		4	Barber
Barker, James Edward	AS Math	Jr	1,2,3	Mabton, Wash.
Barker, Kathryn Payton (Mrs.)	SQ		4	Barber
Barnes, Jim	AS Pre-Bus Ad	So	1,2,3	Helena
Barnes, Mildred Montana	AS For Lang	So	1,2	Butte
Barnhart, Angeline, B.A.	SQ (lr)		4	Missoula
Barr, Miriam Hayes (Mrs.)	Uncl (lr)		1	Missoula
Barrott, Agnes	SQ (lr)		4	Stevensville
Barrott, Rose	SQ (lr)		4	Stevensville
Barrows, Eileen White	AS Engl	So	1,2,3	Missoula
Barry, William Francis	Pharm	Fr	1,2,3	Livingston
Bartholet, Marie (Sister Mary Dolorita)	AS Home Econ	Sr	4,1,2,3	Missoula
Barto, Elizabeth	AS	Fr	1,2,3	Thompson Falls
Bartron, Esther A.	AS	Fr	1,2,3	Bowdoin
Bartz, Mildred Ethel	SQ		4	Barber
Bassingwaite, Eva	SQ		4	Hannah, N. Dak.
Bates, James Edward	Law	Sr	1,2,3	Missoula
Batson, Florence Mabel	AS	Fr	3	Miles City
Baxter, Maud Elizabeth	SQ		4	Red Lodge
Beatty, Dorothy D.	AS Educ	Sr	1,2,3	Bozeman
Beatty, Francis Palmer	AS	Fr	1	Ingomar
Beaudin, Ruth Martha	AS For Lang	So	2,3	Butte
Beck, James Burnie	Law	Sr	1,2,3	Seattle, Wash.

Name	Curriculum	Rank	Quarters in Attendance	Residence
Beckett, Crawford Herbert	Journ	Fr	1,2,3	Billings
Bedard, Antoinette	Bus Ad	Sr	1,2,3	Missoula
Beebe, Ralph Julius	AS Psych	Sr	4,2	Plains
Begley, Irene Gay	SQ (lr)		4	Missoula
Behner, Ruth Helen	AS Phys Ed	So	2,3	Glasgow
Belangie, William Marvin	AS Pre-Med	So	4,1,2,3	Missoula
Beley, Lena	AS Educ	So	1	Big Timber
Bell, Lillian Harriett	AS Hist	Jr	1,2	Roundup
Bell, Marie Josephine	AS Fine Arts	So	1,2,3	Missoula
Bement, Florence Lea	AS Fine Arts	So	4,1,2	Missoula
Benjamin, Harry Eber	Pharm (lr)	Fr	1,2	Shelby
Benjamin, Ralph L.	AS Pre-Bus Ad	So	1,2,3	Missoula
Bennett, Earl Sumner	SQ		4	Butte
Bennett, Ruth Orr (Mrs.)	AS Home Econ	Sr	1,2,3	Dillon
Benson, Vern Russell	Law	Sr	1,2,3	Butte
Bergland, Erland V.	AS Pre-Bus Ad	So	1,2,3	Hettinger, N. Dak.
Berman, Emma Jacobs (Mrs.)	SQ (lr)		4	Wayne, Michigan
Bernard, Hugh Calvin	For	So	2,3	Creston
Berry, James Gordon	Bus Ad	Jr	1	Dillon
Berthelote, Ted Joseph	AS	Fr	2,3	Great Falls
Bertoglio, James Emory	SQ		4	Butte
Besancon, Catherine	AS	Fr	1,2,3	Missoula
Bessey, Edwin William	AS	Fr	1	Kalispell
Bessey, Otto Arthur	AS Chem	Jr	1,2,3	Kalispell
Bickel, Edith Madeline	AS	Fr	1,2,3	Missoula
Bidstrup, Marvin Lamar	Journ	Fr	1,2,3	Dillon
Bieber, Flora Mae	SQ		4	Helena
Billing, Marjorie Winifred	AS Engl		4,1,2,3	Foochow, China
Billings, Preston Hubert	For	Fr	1	Williamsport, Indiana
Bingham, Elva Mae (Mrs.)	SQ		4	Helena
Bingham, Frank Cadwallader	AS Educ	Sr	4,1,2	Helena
Bircher, Alice Batson (Mrs.)	Uncl		3	Miles City
Bird, Olive Elizabeth (Mrs.)	SQ		4	Billings
Bischoff, Paul A.	For	Sr	1,2,3	Missoula
Blackford, William Melville	AS	Fr	1,2,3	Lewistown
Bladen, Ogda	Uncl		4,1,2,3	Butte
Blair, Archie E.	Law	Sr	1,3	Forsyth
Blair, Bessie Loreta	SQ (lr)		4	Deer Lodge
Blair, Carl William	AS Pre-Bus Ad	So	1,2,3	Billings
Blair, Elsie	AS Engl	Jr	1,2,3	Forsyth
Blake, Fritz Wetzsteon	Mus	Fr	1,2,3	Missoula
Blake, Ronald Edgar	AS	Fr	1,2,3	Missoula
Blakeslee, Donald Crosby	Bus Ad	Jr	1,2,3	Livingston
Bland, Marvel Thresta	Mus	So	1	Forsyth
Blaschke, Fred Herman	For	Fr	1,2,3	Hickman, Nebraska
Biller, Marie Christine	SQ		4	Townsend
Blinn, Dorothy Mae	AS	Fr	1,2,3	Dillon
Blinn, Harold Eugene	AS Hist	Sr	1,2,3	Dillon
Blom, Rex Thaddeus	AS Pre-Bus Ad	So	1,2,3	Helena
Blomgren, Bernice Henrietta	Bus Ad	Sr	1,2,3	Butte
Bloom, Alton Zelmar	AS Educ	So	1,2,3	Miles City
Bloom, Charles W.	For	Sr	1,2,3	Missoula
Blue, Archie John	Journ	Jr	1,2	Saco
Blue, Wallace Stanley	AS Pre-Legal	Jr	1,2,3	Saco
Blumenthal, Albert Baillie, B.A.	Psych	Gr	4,1,2,3	Missoula
Boardman, John Woodward	For	So	1,2,3	Lowry
Bodine, Howard Allan	Bus Ad	Sr	1	Livingston
Boerner, Quentin Robin	For	So	1,2,3	Port Washington, Wis.
Boldt, George H.	SQ (lr)		4	Hamilton
Bolles, Kenneth James	AS Pre-Legal	So	1,2,3	Victor
Bolton, John H.	Journ	So	1,2,3	Great Falls
Bonner, John Woodrow	Law	Sr	1,2,3	Perma
Bonner, Thomas	AS	Fr	1,2,3	Perma
Booth, Connie	AS	Fr	1,2,3	Wolf Point
Booth, Edwin Sherman	AS Hist	Sr	1,2,3	Comanche
Booth, Margaret Charlotte	AS Hist	Sr	1,2,3	Wolf Point
Boothman, Mary Louise	AS	Fr	1,2,3	Libby
Borchers, George C.	AS For Lang	Jr	1,2,3	Missoula
Borg, Anna Kathryn	Mus Sp		4,1,2,3	Missoula
Bossart, Louie E.	For	So	2,3	Beatrice, Nebraska
Bourret, Florence Eva, B.A.	AS For Lang	Gr	1,2,3	Bridger

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Name	Cur-riculum	Rank	Quarters in Attendance	Residence
Bourret, Thelma Helen.....	AS For Lang	Jr.	1,2,3	Bridger
Bower, J. Edward.....	AS Pre-Bus Ad.	So.	1	Helena
Bowman, Murray Cheever.....	SQ (lr)		4	Belt
Brady, May Elizabeth.....	SQ		4	Roundup
Brady, Vivian Ann.....	AS Math	So.	1,2,3	Ottumwa, Iowa
Brandt, James Morris.....	AS	Fr.	1,2,3	Augusta
Brannan, Donald Edward.....	AS	Fr.	1,2,3	Havre
Branson, Marion Alfred.....	SQ		4	Dixon
Brasseur, Joseph Rodger.....	AS Econ.	So.	1,2	Challis, Idaho
Breitenstein, Margery.....	Journ	Jr.	1,3	Great Falls
Brener, William Henry.....	For	Jr.	1,2,3	Shawano, Wisconsin
Brennan, Mary Elaine.....	AS Engl	So.	1,2,3	Savage
Brewer, Lillian Bell.....	Pharm	So.	1	Geraldine
Brien, Willetta Hope.....	Uncl		4,1,2,3	Missoula
Briggs, Lee.....	AS Home Econ.	So.	1,2,3	Conner
Briner, Luther Burnard.....	For	Fr.	1,2,3	Kenosha, Wisconsin
Briscoe, Betty.....	Mus	Fr.	1,2,3	Missoula
Briscoe, John Albert.....	For	Fr.	1,2,3	Toston
Brittel, Claude Carol.....	Pharm	So.	1,2,3	Whitefish
Brittenham, Curtis Alonzo.....	Journ	Jr.	1,2,3	Kalispell
Brodrick, Georgia Ann.....	AS Hist.	So.	1,2,3	Havre
Broman, Mildred Elizabeth.....	AS	Fr.	1,2,3	Missoula
Brooks, Charles LeRoy.....	For	Fr.	1,2,3	Greybull, Wyoming
Brothers, Jean Isadore.....	SQ		4	Victor
Brown, Anne Kathleen.....	AS	Fr.	1,2	Missoula
Brown, Clara Isabel.....	AS Hist	So.	1,2,3	Missoula
Brown, Dorothy Alice.....	AS	Fr.	1,2,3	Missoula
Brown, Ella Verle.....	Pharm	Sr.	1,2,3	Missoula
Brown, Elsie Leona.....	AS Phys Ed.	Sr.	4,1,2,3	Valler
Brown, Henry Phillip.....	AS Pre-Legal	So.	1,2,3	Great Falls
Brown, Lucile Grace.....	AS Home Ec.	So.	1,2,3	Red Lodge
Brown, Margaret Catherine.....	AS	Fr.	1,2,3	Helena
Brown, Margaret Jean.....	AS	Fr.	1,2,3	Missoula
Brown, Mary Irene.....	AS Bot	Jr.	1,2,3	Missoula
Brown, Naomi Whalen (Mrs.).....	AS Home Ec.	So.	1	Missoula
Brown, Stuart Ben.....	AS	Fr.	1,2,3	Missoula
Brown, Thomas Baxter.....	AS	Fr.	1,2,3	Billings
Brown, William Milton.....	AS Bus Ad.	Jr.	1,2,3	Missoula
Bruckman, Joseph Alfred.....	AS	Fr.	1,2,3	Polson
Bruneau, Helen Elizabeth.....	AS	Fr.	1,2,3	Great Falls
Bryson, Sadie Belle.....	AS Home Ec.	Sr.	1,2,3	Helena
Buckley, Emmett Francis.....	AS	Fr.	2,3	Harlem
Buergi, George Henry.....	Journ	Fr.	1,2,3	Plevna
Burbank, Donald Lewis.....	AS Chem.	So.	1,2	Charlo
Burg, Mayer Lashorn.....	AS	Fr.	1	Livingston
Burke, Allan Easterly.....	AS	Fr.	1,2,3	Lewistown
Burney, Beatrice (Mrs.).....	SQ		4	Grangeville, Idaho
Burney, Frank J., M.A.....	SQ (lr)		4	Grangeville, Idaho
Burns, Arthur John.....	AS Pre-Bus Ad.	So.	1,2,3	Wolf Creek
Burns, Charles William.....	AS Pre-Bus Ad.	So.	1,2,3	Choteau
Burns, Douglas McLeod.....	AS Pre-Bus Ad.	So.	1,2,3	Wolf Creek
Burns, Florence.....	AS Phys Ed.	Jr.	1	Willow Creek
Burrell, Walter Thomas.....	Journ	Jr.	1,2	Tampa, Florida
Burrroughs, Charles Freidrich.....	Law	Sr.	1,2,3	Three Forks
Busey, William Wallace.....	AS	Fr.	1,2,3	Miles City
Butchart, Marion.....	AS	Fr.	1,2,3	Choteau
Byrd, George A.....	SQ		4	Missoula
Byrd, Marion Allen.....	AS Bus Ad.	Sr.	1,2,3	Darby
Byrd, Milton Daniel.....	AS Bus Ad.	Sr.	1,2,3	Darby
Cahill, Clarence Richard.....	AS	Fr.	2,3	Billings
Calder, Catherine.....	Journ	Jr.	1,2,3	Laurel
Callahan, Patrick Wallace.....	AS	Fr.	4,3	Missoula
Callaway, Robert Kendall.....	AS Engl	Jr.	1,2,3	Butte
Callison, Lloyd Laverne.....	Pharm	So.	1,2,3	Loma
Cambon, Jessie M.....	AS Engl	Jr.	1,2,3	Harlowton
Cameron, Donald Weckford.....	Pharm	Jr.	1	Bozeman
Cameron, Ferne Aileen.....	AS	Fr.	1,2,3	Kremlin
Campbell, Annie M.....	SQ		4	Lonepine
Campbell, Cecile Johnson (Mrs.).....	AS Home Ec.	Sr.	1,2,3	Missoula
Campbell, Lloyd Speer.....	For	Sr.	1,2,3	Missoula
Campbell, Mae Loretta.....	AS Bus Ad.	Sr.	1,2,3	Missoula
Campbell, May.....	AS Biol	Jr.	1,2,3	Lonepine
Candee, Elizabeth Maclay.....	SQ		4	Jennings



Name	Curriculum	Rank	Quarters in Attendance	Residence
Cantrell, Eula Mary.....	SQ	4	4	Milltown
Cardell, Mary Penfield.....	AS	Fr.	1,2,3	Missoula
Cardwell, Edward Wilbur.....	AS	Fr.	1	Billings
Cardwell, Marian E.....	AS	Fr.	1,2,3	Billings
Carleton, Earl William.....	AS	Pre-Med.	Jr. 1,2,3	Thompson Falls
Carlson, Sture Thorstein.....	For	So.	1,2	Tarkio
Carlstrom, Charles Hamilton	AS	Fr.	1,2	Hamilton
Carr, Mina I.....	SQ (lr)	4	4	Missoula
Carroll, John Rufus.....	AS	Fr.	1,2,3	Missoula
Carroll (Sister Mary Hilda).....	SQ	4	4	Kalispell
Carson, Frances Cross, B.A.....	SQ	4	4	Townsend
Carson, Lenora Kane (Mrs.).....	SQ	4	4	Virgelle
Carstens, Martin Walter.....	AS	Fr.	2,3	Missoula
Caruso, Alfred Victor.....	AS	Fr.	1	Livingston
Cassady, Rose Mary.....	AS	Fr.	1	Sun River
Castle, Alatheia B.....	Journ	Jr.	1,2,3	Virginia City
Castle, Helen L.....	AS Engl	So.	1,2,3	Virginia City
Castlio, Russella Dare.....	AS Hist.	So.	1,2,3	Plains
Cavitt, Mary Amanda.....	AS Engl.	Sr.	4,1,2,3	Galata
Cellars, Vera Estella.....	SQ	4	4	Forsyth
Cerutti, Peter.....	AS	Fr.	1,2,3	Ennis
Chaffin, Helen M.....	AS Home Ec	Sr.	1,2,3	Stevensville
Chapman, Faye Louise.....	AS	Fr.	1,2,3	Rothiemay
Chapman, Otis Keron.....	Pharm	Fr.	1,2,3	Wolf Point
Chapple, Jane Elizabeth.....	AS	Fr.	1,2,3	Billings
Charles, Florence Deane.....	AS Hist.	Sr.	1,2,3	Butte
Charteris, Joe.....	AS Pre-Legal	So.	2,3	Great Falls
Charteris, William Cummings	AS Biol.	Sr.	1,2	Great Falls
Chase, Letty Ann.....	SQ	4	4	Billings
Chasse, Clarence Harry.....	For	Fr.	1,2,3	Cut Bank
Chichester, Frank Marion.....	Law	Sr.	1,2,3	Missoula
Chilcote, Jessie Lena.....	AS	Fr.	1,2	Missoula
Chinske, Edward Stanley.....	AS Phys Ed.	Jr.	1,2,3	Michigan City, Ind.
Christensen, Arthur Loyd.....	AS Chem.	Sr.	1,2,3	Missoula
Christensen, Chester James.....	Pharm	So.	1,2,3	Missoula
Christensen, George Franklin	For	So.	1,2,3	Pomeroy, Wash.
Christian, James Silas.....	AS Pre-Legal	So.	2	Gold Butte
Christie, Ralph W., B.A.....	SQ	4	4	Spokane, Wash.
Christy, Claudine M.....	Journ	Jr.	1,2,3	Missoula
Church, Marie Antoinette.....	SQ	4	4	New Plymouth, Idaho
Churchill, Bernard F.....	SQ	4	4	Great Falls
Clack, Worth Medlan.....	AS	Fr.	1,2,3	Havre
Clapp, Daniel Brennan.....	Mus Sp.	1,2	4	Missoula
Clapp, Mary Brennan (Mrs.).....	SQ (lr)	4	4	Missoula
Clark, James Alvin.....	AS	Fr.	1,2,3	Los Angeles, Calif.
Clark, Mabel Rosalee.....	Mus	Fr.	1,2,3	Grass Range
Clark, Mildred.....	AS Biol.	Sr.	1,2,3	Columbus
Clark, Rachael, Laurabelle.....	AS Engl	So.	1,2,3	Grass Range
Clark, Wesley Higgins.....	AS	Fr.	1,2,3	Missoula
Clay, Genevieve.....	AS Pre-Bus Ad.	So.	1,2,3	Troy
Clifford, Robert James.....	AS Econ.	So.	2,3	Portland, Oregon
Clinton, Evelyn.....	AS Engl.	Sr.	1,2,3	Anaconda
Cochran, Joseph Morton.....	AS Engl.	Sr.	1,2,3	Oak Grove, Oregon
Coen, Martin J., Jr.....	Law	Sr.	1,2,3	Missoula
Coffey, Clark Cowell.....	AS Pre-Legal	So.	1,2,3	Choteau
Cogswell, Andrew Colville.....	Journ	Sr.	4,1,2,3	Missoula
Cohen, Dorothy Ann.....	AS Econ	Jr.	1,2,3	Butte
Coigdarippe, Dean Joseph.....	For	Fr.	3	Long Beach, Calif.
Colby, Florence Carolyne.....	AS Engl.	So.	4,1,2,3	Missoula
Colby, Lester A.....	Journ	Jr.	1,2,3	Mondovi, Wisconsin
Cole, Arden Burr.....	SQ	4	4	Darby
Cole, Goldie A.....	AS	Fr.	1	Missoula
Coleman, Charles Burgess.....	SQ	4	4	Spokane, Wash.
Coleman, Claire Helen.....	SQ (lr)	4	4	Stockett
Collins, Nelton Charles.....	AS Pre-Legal	So.	1,2	Butte
Collinson, Dickenson Ober.....	AS	Fr.	1,2,3	Scobey
Comley, William Harrison.....	Pharm	So.	1,2,3	Ennis
Comings, Franklin Morrill.....	AS	Fr.	1	Livingston
Congdon, George Martin.....	Journ	Fr.	1,2,3	Roundup
Connell, Florence Elizabeth.....	AS For Lang.	Sr.	1,2,3	Missoula
Conrad, Aimee Evelyn.....	AS Pre-Bus Ad.	So.	1,2,3	Great Falls
Conrad, Nina V. (Sister Antoinette)	Pharm	So.	1,2	Missoula