

1-1-1920

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University of Montana--Missoula. Office of the Registrar

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# UNIVERSITY OF MONTANA BULLETIN

STATE UNIVERSITY SERIES

NUMBER 238

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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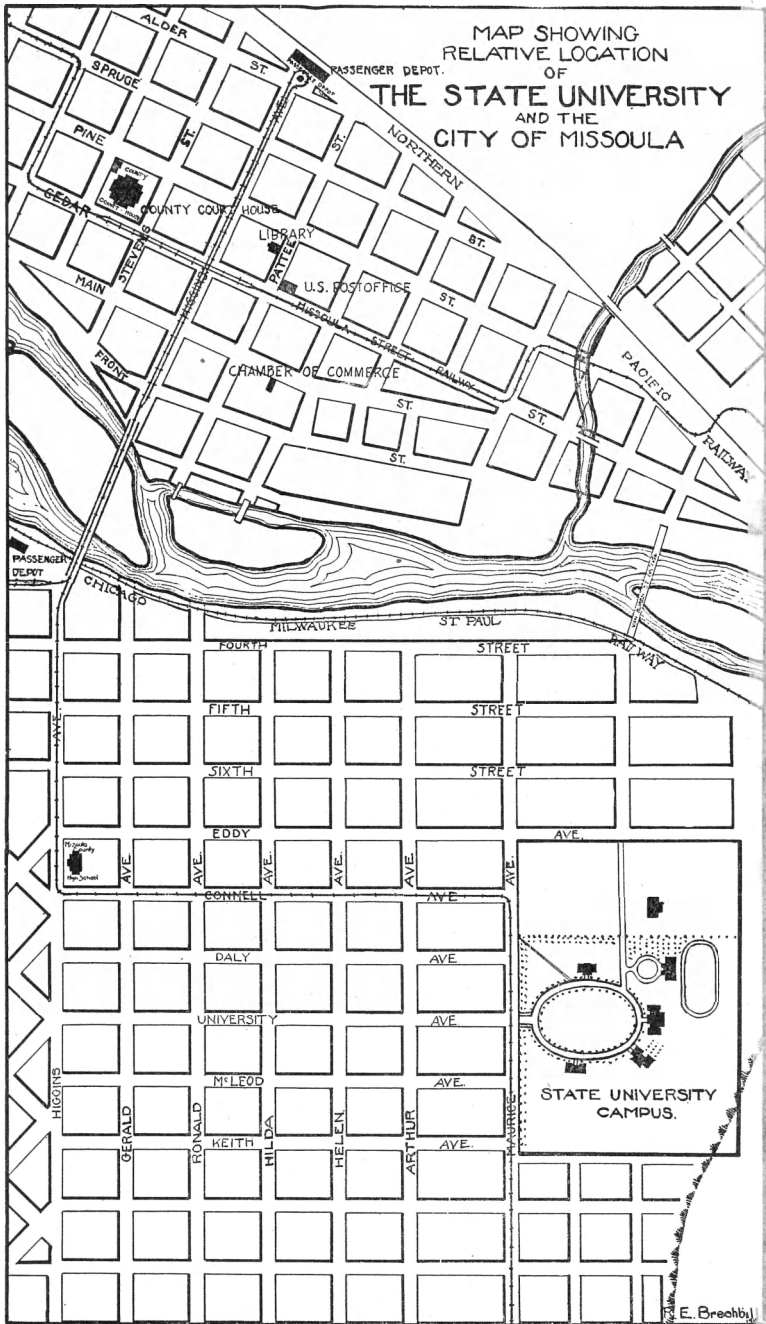
TWENTY-SIXTH  
ANNUAL CATALOGUE

1920-1921

ANNOUNCEMENTS FOR  
1921-1922

MISSOULA, MONTANA  
JUNE, 1921

MAP SHOWING  
RELATIVE LOCATION  
OF  
**THE STATE UNIVERSITY**  
AND THE  
CITY OF MISSOULA



E. Brechtel

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1921							1922							1923																			
<b>JULY</b>							<b>JANUARY</b>							<b>JULY</b>							<b>JANUARY</b>												
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						
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3	4	5	6	7	8	9	8	9	10	11	12	13	14	2	3	4	5	6	7	8	7	8	9	10	11	12	13						
10	11	12	13	14	15	16	15	16	17	18	19	20	21	9	10	11	12	13	14	15	14	15	16	17	18	19	20						
17	18	19	20	21	22	23	22	23	24	25	26	27	28	16	17	18	19	20	21	22	21	22	23	24	25	26	27						
24	25	26	27	28	29	30	29	30	31					23	24	25	26	27	28	29	28	29	30	31									
31														30	31																		
<b>AUGUST</b>							<b>FEBRUARY</b>							<b>AUGUST</b>							<b>FEBRUARY</b>												
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						
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7	8	9	10	11	12	13	12	13	14	15	16	17	18	6	7	8	9	10	11	12	4	5	6	7	8	9	10						
14	15	16	17	18	19	20	19	20	21	22	23	24	25	13	14	15	16	17	18	19	11	12	13	14	15	16	17						
21	22	23	24	25	26	27	26	27	28					20	21	22	23	24	25	26	18	19	20	21	22	23	24						
28	29	30	31											27	28	29	30	31			25	26	27	28									
<b>SEPTEMBER</b>							<b>MARCH</b>							<b>SEPTEMBER</b>							<b>MARCH</b>												
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						
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11	12	13	14	15	16	17	12	13	14	15	16	17	18	10	11	12	13	14	15	16	11	12	13	14	15	16	17						
18	19	20	21	22	23	24	19	20	21	22	23	24	25	17	18	19	20	21	22	23	18	19	20	21	22	23	24						
25	26	27	28	29	30		26	27	28	29	30	31		24	25	26	27	28	29	30	25	26	27	28	29	30	31						
<b>OCTOBER</b>							<b>APRIL</b>							<b>OCTOBER</b>							<b>APRIL</b>												
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						
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9	10	11	12	13	14	15	9	10	11	12	13	14	15	8	9	10	11	12	13	14	8	9	10	11	12	13	14						
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23	24	25	26	27	28	29	23	24	25	26	27	28	29	22	23	24	25	26	27	28	22	23	24	25	26	27	28						
30	31						30							29	30	31					29	30											
<b>NOVEMBER</b>							<b>MAY</b>							<b>NOVEMBER</b>							<b>MAY</b>												
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	1	2	3	4	5	6			1	2	3	4	5	6			1	2	3	4			1	2	3	4	5
13	14	15	16	17	18	19	14	15	16	17	18	19	20	12	13	14	15	16	17	18	13	14	15	16	17	18	19						
20	21	22	23	24	25	26	21	22	23	24	25	26	27	19	20	21	22	23	24	25	20	21	22	23	24	25	26						
27	28	29	30				28	29	30	31				26	27	28	29	30			27	28	29	30	31								
<b>DECEMBER</b>							<b>JUNE</b>							<b>DECEMBER</b>							<b>JUNE</b>												
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	1	2	3				1	2	3							1	2							1	2			
11	12	13	14	15	16	17	11	12	13	14	15	16	17	10	11	12	13	14	15	16	10	11	12	13	14	15	16						
18	19	20	21	22	23	24	18	19	20	21	22	23	24	17	18	19	20	21	22	23	17	18	19	20	21	22	23						
25	26	27	28	29	30	31	25	26	27	28	29	30		24	25	26	27	28	29	30	24	25	26	27	28	29	30						
														31																			

# University Calendar, 1921-1922

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## Spring Quarter

1921

March 19, Saturday.....	Registration of New Students
March 21, Monday.....	Instruction begins
May 11-14, Wednesday-Saturday.....	Interscholastic Meet
May 30, Monday.....	Memorial Day, a Holiday
June 4, Saturday.....	Class Day Exercises
June 4, Saturday, 8:15 p. m.....	Annual Recital of the School of Music
June 5, Sunday.....	Baccalaureate Address
June 6, Monday, 10:30 a. m. ....	Commencement
June 6, Monday, 7:00 p. m.....	Annual Alumni Dinner
June 8-11, Wednesday-Saturday.....	Examinations

## Summer Quarter

June 20, Monday.....	Quarter opens
July 4, Monday.....	Independence Day, a Holiday
August 19, Friday.....	Quarter ends

## Autumn Quarter

Sept. 23, Friday.....	Meeting of University Faculty
Sept. 27, 28, Tuesday, Wednesday.....	Registration Days
Sept. 29, Thursday.....	Instruction begins
Nov. 24, Thursday.....	Thanksgiving Day, a Holiday
Dec. 19-22, Monday-Thursday.....	Examinations
Dec. 22, Thursday noon.....	Quarter ends, Christmas Recess begins

## Winter Quarter

1922

Jan. 2, Monday.....	Registration of New Students
Jan. 3, Tuesday.....	Christmas Recess ends, Instruction begins
Jan. 4, Wednesday.....	Forest Rangers' School begins
Feb. 17, Friday.....	Charter Day, Special Convocation
Mar. 22-24, Wednesday-Friday.....	Examinations
March 24, Friday.....	Winter Quarter ends; Forest Rangers' School ends

## Spring Quarter

Mar. 28, Tuesday.....	Registration of New Students
Mar. 29, Wednesday.....	Instruction begins
May 10-13, Wednesday-Saturday.....	Interscholastic Meet

May 30, Tuesday.....	Memorial Day, a Holiday
June 10, Saturday.....	Class Day Exercises
June 10, Saturday, 8:15 p. m.....	Annual Recital of the School of Music
June 11, Sunday.....	Baccalaureate Address
June 12, Monday, 10:30 a. m. ....	Commencement
June 12, Monday, 7:00 p. m.....	Annual Alumni Dinner
June 13-16, Tuesday-Friday.....	Examinations

#### Summer Quarter

June 19, Monday.....	Quarter begins
July 4, Tuesday.....	Independence Day, a Holiday
August 18, Friday.....	Quarter ends

#### Autumn Quarter

Sept. 26, 27, Tuesday, Wednesday.....	Registration Days
Sept. 28, Thursday.....	Instruction begins
Nov. 30, Thursday.....	Thanksgiving Day, a Holiday
Dec. 20-22, Wednesday-Friday.....	Examinations
Dec. 22, 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, but appropriate exercises, as a part of the day's program, shall be held in each school when in session: 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

EDWARD O. SISSON (ex-officio).....	Missoula
J. H. T. RYMAN (term expires 1925).....	Missoula
J. M. KEITH (term expires 1923).....	Missoula
J. B. SPEER, Secretary.....	Missoula

## ADMINISTRATIVE OFFICERS

EDWARD C. ELLIOTT, Ph.D. ....	Chancellor, University of Montana
EDWARD O. SISSON, Ph.D. ....	President
FREDERICK C. SCHEUCH, M.E., A.C. ....	Vice-President
RICHARD H. JESSE, Jr., Ph.D. ....	Dean of Men
ARTHUR L. STONE, B.S. ....	.....
.....	University Editor and Dean of the School of Journalism
SHIRLEY J. COON, M.A., .....	Dean of the School of Business Administration
DORR SKEELS, B.S. ....	Dean of the School of Forestry
CHARLES W. LEAPHART, M.A., L.L.B. ....	Dean of the School of Law
DELOSS SMITH.....	Dean of the School of Music
CHARLES E. F. MOLLET, Ph.C., B.A. ....	Dean of the School of Pharmacy
JAMES B. SPEER, B.A., L.L.B. ....	Registrar and Business Manager
GERTRUDE M. BUCKHOUS, B.S. ....	Librarian
**CHARLES F. FARMER, B.S. ....	Superintendent of Physical Plant

## THE FACULTY

### Professors

*BATEMAN, WILLIAM G. ....	Professor of Chemistry
B.A., Stanford University, 1907; M.A., 1909; Ph.D., Yale University, 1916.	
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.	
CORBIN, FRANCES.....	Professor of English
B.L., Ohio College, 1902.	
CRON, ANTON C. ....	Professor of Military Science and Tactics
Major, Infantry, U. S. A.	
DAUGHTERS, FREEMAN.....	Professor of Education
B.A., Kansas Normal College, 1896; S.T.B., Philadelphia Divinity School, 1903; M.A., Columbia University, 1915.	

\* On leave of absence, 1920-21.

\*\* Resigned, January 1, 1921.



- 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.
- FISHER, ARTHUR.....Professor of Law  
B.A., Harvard University, 1915; LL.B., 1920.
- JESSE, RICHARD HENRY, JR.....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.
- MERRIAM, HAROLD G.....Professor of English  
B.A., University of Wyoming, 1905; B.A., Oxford University, England, 1907; M.A., 1911.
- MOLLET, CHARLES E. F.....Professor of Pharmacy and  
Dean of the School of Pharmacy  
Ph.C., Kansas University, 1904; B.A., State University of Montana, 1920.
- 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.
- ROWE, JESSE P. ....Professor of Geology  
B.S., University of Nebraska, 1897; M.A., 1903; Ph.D., 1906.
- SCHEUCH, FREDERICK C.....Professor of Modern 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.
- SIMES, LEWIS M.....Professor of Law  
B.A., Southwestern College, 1909; Ph.B., University of Chicago, 1912; J. D., University of Chicago, 1914.
- SISSON, EDWARD O. ....Professor of Education and President  
B.S., Kansas Agricultural College, 1886; B.A., University of Chicago, 1893; Ph.D., Harvard University, 1905.
- SKEELS, DORR.....Professor of Forestry and Dean of the School 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  
B.S., State University of Montana, 1906; M.S., University of Michigan, 1909.
- STONE, ARTHUR L.....Professor of Journalism and  
Dean of the School of Journalism  
B.S., Worcester Polytechnic, 1884.
- SWENSON, JOSEPHINE.....Professor of Piano

- 30
- 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
- WHITCOMB, EMELINE S.....Professor of Home Economics  
 B.S., Columbia University, 1910; M.A., 1918.
- WHITLOCK, ALBERT N. ....Dixon Professor of Law  
 B.A., University of Kentucky, 1906; M.A., 1908; LL.B., Harvard Uni-  
 versity, 1911.

**Associate Professors**

- MERRILL, ARCHIBALD S.....Associate Professor of Mathematics  
 B.A., Colgate University, 1911; M.A., 1914; Ph.D., University of Chi-  
 cago, 1916.

**Assistant Professors**

- AMES, WALTER R.....Assistant Professor of Education and Psychology  
 Ph.B., University of Wisconsin, 1917; Ph. M., 1918.
- BEVAN, ARTHUR C.....Assistant Professor of Geology  
 B.S., Ohio Wesleyan University, 1912.
- BOZORTH, INEZ V.....Assistant Professor of Home Economics and  
 Director of Residence Halls  
 B.S., Oregon Agricultural College, 1915.
- \*BUCKHOUS, M. GERTRUDE.....Assistant Professor of Library Science  
 B.S., State University of Montana, 1900.
- BURGEE, CLYDE E. ....Assistant Professor of Economics  
 B.A., West Maryland College, 1914; M.A., Johns Hopkins University, 1920.
- BURROUGHS, GLENN V.....Assistant Professor of History and  
 Political Science  
 B.S., Whitman College, 1909; M.A., University of Chicago, 1912, Ph.D.,  
 1916.
- CAREY, EUGENE F. A. ....Assistant Professor of Mathematics  
 B.S., University of California, 1905; M.S., 1914.
- CHRISTENSEN, WALTER E.....Assistant Professor of Journalism  
 B.A., University of Nebraska, 1919.
- COX, SIDNEY HAYES.....Assistant Professor of English  
 B.A., Bates College, 1911; M.A., University of Illinois, 1913.
- DAUM, KATE.....Assistant Professor of Home Economics  
 B.A., University of Kansas, 1913; M.A., 1916.
- \*\*FARMER, CHARLES F.....Assistant Professor of Forestry and  
 Superintendent of Physical Plant  
 B.S., State University of Montana, 1909.
- FENSKA, RICHARD R. ....Assistant Professor of Forestry  
 B.S., Beloit College, 1911; M.F., Yale University, 1913.
- GARDNER, HARRIET M.....Assistant Professor of Public School Music
- GEYER, ELLEN M. ....Assistant Professor of English  
 Ph.B., State University of Iowa, 1902; M.A., 1910.
- GRAFF, PAUL W. ....Assistant Professor of Botany  
 B.S., Connecticut Agricultural College, 1907; M.A., Columbia Univer-  
 sity, 1916.

\* On leave of absence, 1920-21.

\*\* Resigned, January 1, 1921.

- HOWARD, JOSEPH W. ....Assistant Professor of Chemistry  
B.A., Shurtleff College, 1912; M.A., University of Illinois, 1913; Ph.D., 1915.
- LEYDA, LUCILLE.....Assistant Professor of Physical Education  
B.A., University of Nebraska, 1916.
- NEUMAN, JOHN X.....Assistant Professor of Biology  
B.S., University of Wisconsin, 1910.
- \*ORBECK, ANDERS .....Assistant Professor of English  
B.A., University of Minnesota, 1913; M.A., 1914.
- OWEN, HUMPHREY G. ....Assistant Professor of Biology  
B.A., University of Denver, 1914; M.A., 1915.
- RAPP, I. M. ....Assistant Professor of Physics  
B.A., Ursinus College, 1903; Ph. D., University of Chicago, 1915.
- SCHWALM, FREDERICK D.....Assistant Professor of Fine Arts  
M.A., Chicago Art Academy, 1908.

### Instructors

- ARNOLDSON, LOUISE G. (MRS.).....Instructor in Modern Languages  
B.A., University of Utah, 1919; Diplomee d' Etudes Francaise de Touraine, 1914 (Alliance Francaise-Universite de Portiers).
- BAKER, LILLIAN.....Instructor in Home Economics  
B.A., Kansas Agricultural College, 1914.
- BERRY, BERNICE I.....Instructor in Piano
- BIERMAN, BERNARD W.....Instructor in Physical Education and  
Assistant Coach  
B.A., University of Minnesota, 1916.
- BLEE, GLADYS.....Instructor in Business Administration
- DEAN, ALEXANDER .....Instructor in English  
B.A., Dartmouth College, 1916.
- DEXTER, ELISE F.....Instructor in Modern Languages  
B.A., University of Wisconsin, 1906; M.A., 1916.
- FREEMAN, EDMUND L. ....Instructor in English  
B.A., Missouri Wesleyan College, 1915.
- JACOBSEN, ARTHUR D. ....Instructor in Economics  
B.A., University of Redlands, 1917; M.A., Harvard University, 1918.
- KITT, BERNIE F. ....Instructor in Forestry  
B.S., State University of Montana, 1909.
- LANSING, HAROLD H. ....Instructor in Forestry  
B.S., State University of Montana, 1916.
- MILLS, ALICE W. (MRS.).....Instructor in English  
B.S., Oregon Agricultural College, 1905.
- SCHAEFER, LEO H. ....Instructor in Business Administration  
B.A., University of Wisconsin, 1917.
- STEWART, ALBERT N. ....Instructor in Botany
- SUCHY, JOHN F. ....Instructor in Pharmacy  
Ph.C., B.S., State University of Montana, 1917.
- UREY, HAROLD C. ....Instructor in Chemistry  
B.S., State University of Montana, 1917.
- \*\*WEAVER, VIRGINIA H. ....Instructor in Home Economics  
B.A., State College of Washington, 1918; M.A., 1920.
- WEISBERG, FLORA (MRS.).....Instructor in Modern Languages

\* On leave of absence, 1920-21.

\*\* Resigned, January 1, 1921.

**Assistants**

- SMITH, FLORENCE R. (MRS.).....Accompanist in School of Music  
 STICKNEY, KATHRYN (MRS.).....Assistant in English  
 B.A., University of Michigan, 1907.  
 WITTER, GEORGE G. ....Assistant in Modern Languages  
 B.A., Syracuse University, 1917.

**SPECIAL LECTURERS IN JOURNALISM**

- COONEY, E. H.  
 Editor, The Great Falls Leader.  
 DURSTON, J. H.  
 Editor, The Butte Daily Post.  
 HUTCHENS, M. J.  
 Editor, The Missoulian.  
 RICHARDS, D. D.  
 Editor, Missoula Sentinel.  
 THORNTON, P. B.  
 Bureau of Printing, Missoula.  
 WILLIAMS, A. W.  
 Bureau of Printing, Missoula.

**SPECIAL LECTURERS IN FORESTRY**

- MORRELL, FRED, M.S. (Iowa Agricultural College).....District Forester  
 Forest Administration.  
 BONNER, JAMES H., B.S. (State University of Montana).....  
 .....Engineer Public Utilities Commission  
 KOCH, ELMERS, M.F. (Yale University).....Assistant District Forester  
 Fire Protection.  
 THIEME, FRED, B.S. (State University of Montana).....  
 .....Chief of Engineering  
 Forest Surveys.  
 McLAUGHLIN, R. P. ....Forest Supervisor  
 Forest Policy—Fire Protection.  
 GIRARD, JAMES .....Expert Lumberman  
 Scaling and Cruising.  
 MASON, FRED, M.F. (Yale University).....Polleys Lumber Co.  
 Lumbering.  
 BUTLER, J. W., D.V.S. ....State Veterinarian  
 Veterinary Science.  
 HAINES, ROSCOE, Timber Land Agent.....Anaconda Copper Mining Co.  
 Appraisals.  
 KNOWLES, A. D., D.V.M. (Kansas City Veterinary College)  
 Diseases of Livestock.  
 SMITH, GLEN .....Assistant District Forester  
 Grazing.  
 O'BRIEN, P. J. ....District Officer in Charge of Claims  
 Land Classification.  
 MCGOWAN, D. F. LL.B. ....Assistant to the U. S. Solicitor  
 Forest Laws.

VAN HOOK, J. C. ....	State Forester Forest Policy.
KRAMER, E. W. C.E. ....	District Engineer Highways and Bridges.
POLLEYS, E. G., B.S. (University of Nebraska).....	Polleys Lumber Co. Logging and Lumbering.
FLINT, H. R. ....	Forest Inspector Fire Protection.
ADAMS, R. B. ....	Telephone Engineer Forest Improvements.
BEATTY, DWIGHT F. ....	Forest Examiner Forest Improvements.
FARMER, CHARLES F., B.S. (State University of Montana).....	Engineer Forest Improvements.

### SPECIAL LECTURERS IN PHARMACY

STARZ, EMIL, Ph.G. ....	Chemist State Live Stock Sanitary Board and Member State Pharmacy Board, Helena, Mont.
PETERSON, ALEX F. R.P. ....	Proprietor Peterson's Pharmacy, Missoula, Mont.

### ASSISTANTS IN ADMINISTRATIVE OFFICES

SCOTT, ELLA ALLEN (MRS.).....	Secretary to President and Dean of Women B.A., University of Washington, 1900.
JAMESON, WM. J. ....	Secretary to President B.A., State University of Montana, 1919.
RUMMEL, ANNA.....	File Clerk, President's Office
BURKE, MONICA F. ....	Assistant Registrar B.A., State University of Montana, 1918.
STODDARD, HELEN F.....	Recording Clerk, Registrar's Office
BAILEY, J. EDWIN.....	Clerk and Stenographer in Registrar's Office
ANDERSON, QUEEN V.....	Stenographer in Registrar's Office
MUNSON, CLARA (MRS.).....	Bookkeeper, Business Office
PERRIOR, W. H. ....	Assistant Bookkeeper, Business Office
DRINKWALTER, MAYE I.....	Stenographer and Clerk, Business Office
MACLAY, CARRIE.....	Secretary of Public Service Division B.A., State University of Montana, 1920.
REINHARD, ETHEL (MRS.).....	Secretary of Board of Recommendations B.A., State University of Montana, 1920.

### LIBRARY STAFF

*BUCKHOUS, M. GERTRUDE .....	Librarian B.S., State University of Montana, 1900.
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\* On leave of absence, 1920-1921.

HALEY, LUCIA.....	Loan Desk and Reference Librarian Acting Librarian, 1920-1921
B.A., University of Washington, 1911.	
BURMEISTER, LAURA E.....	Assistant in Library
B.A., University of Southern California, 1912.	
FEIGNER, M. WINIFRED.....	Assistant Librarian
B.A., University of Montana, 1908; B.S., Simmons College, 1909.	
HEIMER, MARGARET G. ....	Cataloguer
B.S., Simmons College, 1916.	

**SPECIAL APPOINTMENTS FOR SUMMER QUARTER, 1920**

BATSON, W. H., B.A., Ph.D. ....	Professor of Education
HANSON, JOSEPHINE.....	Instructor in Fine Arts
KETCHAM, G. A., B.A. ....	Instructor in Education
MILLS, ALICE W. (MRS.) B.S. ....	Instructor in English
REINHARD, ETHEL (MRS.), B.A. ....	Instructor in Business Administration
SLAYTON, MILDRED, B.S. ....	Instructor in Home Economics
WALLIN, J. E., Ph.D. ....	Instructor in Psychology
WESTBY, G. H., Ph.B. ....	Instructor in Geology

**STANDING COMMITTEES OF THE FACULTY**

**ADMISSION AND REGISTRATION :**

Phillips, Ames, Leaphart, Merrill, Rowe, Skeels, Registrar.

**ADVISERS :**

Jesse, Ames, Bevan, Corbin, Cox, Dexter, Freeman, Geyer, Graff, Howard, Merrill, Neuman, Owens, Urey.

**ARCHIVES :**

Feighner, Phillips, Scheuch.

**ATHLETICS :**

Schreiber, Jesse, Leyda, Rowe, Scheuch.

**CERTIFIED PUBLIC ACCOUNTANCY :**

Coon, Schaefer, Simes, Registrar, Underwood.

**CURRICULUM :**

- (a) College of Arts and Sciences: Underwood, Bevan, Daughters, Howard, Kirkwood, Merriam, Phillips, Whitcomb.
- (b) University: The President, the Deans of Schools and the foregoing committee; the Registrar, Secretary.

**FACULTY AFFAIRS :**

Carey, Corbin, Elrod.

**GRADUATE WORK :**

Lennes, Burgee, Geyer, Howard, Kirkwood, Skeels, F. O. Smith.

**HEALTH :**

Schreiber, Mollet, Neuman, Whitcomb.

**INTERSCHOLASTIC :**

Rowe, Elrod, Freeman, Jesse, Leyda, Merrill, Schreiber, Spaulding.

**PUBLIC EXERCISES :**

Merriam, Cron, Simes, DeLoss Smith, Stone, Weaver.

**PUBLICITY :**

Stone, Dean, Elrod, Leaphart, Registrar.

**RECOMMENDATIONS :**

Daughters and major professors concerned.

**RELATIONS WITH SCHOOLS AND COMMUNITIES :**

The President, Burgee, Daughters, Geyer, Librarian, Schreiber, DeLoss Smith, Stone.

**SCHEDULE :**

Carey, Christensen, Fenska, Merrill (Sec.), Phillips.

**SCHOLARSHIP :**

Kirkwood, Arnoldson, Coon, Freeman, Jesse, Lennes, Simes, Whitcomb, Spaulding.

**SERVICE COMMITTEE :**

Elrod, Phillips, Pope.

**STATE FAIR :**

Elrod, Director.

**STUDENT LIFE :**

Jesse, Bozorth, Elrod, Leyda, Scheuch, Schreiber, Spaulding, Scott (Sec.)

**STUDENT LOAN :**

F. O. Smith, Business Manager, Fisher.

**CHAIRMEN OF DEPARTMENTS**

**BIOLOGY**, Professor M. J. Elrod.

**BOTANY**, Professor J. E. Kirkwood.

**CHEMISTRY**, Professor Richard H. Jesse, Jr.

**ECONOMICS**, Professor Joseph H. Underwood.

**EDUCATION**, President Edward O. Sisson.

**ENGLISH**, Professor H. G. Merriam.

**FINE ARTS**, Assistant Professor Frederick D. Schwalm.

**GEOLOGY**, Professor Jesse P. Rowe.

**HISTORY AND POLITICAL SCIENCE**, Professor Paul C. Phillips.

**HOME ECONOMICS**, Professor Emeline S. Whitcomb.

**LATIN AND GREEK** (vacant).

**LIBRARY SCIENCE**, Assistant Professor Gertrude Buckhous.

**MATHEMATICS**, Professor N. J. Lennes.

**MILITARY SCIENCE**, Major Anton C. Cron.

**MODERN LANGUAGES**, Professor F. C. Scheuch.

**PHYSICAL EDUCATION**, Professor W. E. Schreiber.

**PHYSICS**, Assistant Professor I. M. Rapp.

**PSYCHOLOGY**, Professor F. O. Smith.

**BOARD OF EXAMINERS IN CERTIFIED PUBLIC ACCOUNTANCY**

Douglas N. Wilson, Great Falls; James C. Phillips, Butte; Ira B. Fee (Secretary), Missoula.

# 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 School 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.

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. By the enactment of Chapter 92 of the laws of the Thirteenth Legislative Assembly in 1913, the four institutions were combined into the University of Montana under the executive control of an officer whose title is Chancellor. In October, 1915, the State Board of Education appointed Edward C. Elliott, then of the University of Wisconsin, as the first Chancellor of the University of Montana. He assumed his duties February 1, 1916.

At the general election in November, 1920, the voters of the state, by a large majority, enacted, through the popular initiative, two measures 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 provides for a state bond issue, from the proceeds of which three and three-quarters million dollars become available for the erection and equipment of buildings at the several institutions of the University of Montana.



# State University

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

In 1897, the legislature authorized the issuance of bonds, in the amount of \$100,000, for the construction of two buildings. The campus site was donated to the state by Edward L. Bonner and Francis G. Higgins of Missoula. In 1899 the University occupied its permanent quarters.

President Craig remained at the head of the University until 1908, when failing health compelled his resignation. He was succeeded by Clyde A. Duniway. During the administration of President Duniway the summer session was inaugurated and the School of Law established. In 1912 Edwin Boone Craighad succeeded President Duniway. He continued in office until 1915. Under his presidency the Schools of Forestry and Journalism were established; the School of Pharmacy was re-organized; the departments of Business Administration and of Home Economics were added to the College of Arts and Sciences.

In 1915 Professor Frederick C. Scheuch was appointed acting president and continued in that capacity until the summer of 1917.

Edward O. Sisson was appointed president of the State University in 1917.

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## THE CAMPUS

The campus proper comprises 60 acres. It lies southeast of Missoula at the head of the Missoula valley. Trees, lawns, shrubbery and flowers, interspersed among the walks and drives, make an attractive setting for the buildings. Directly east of the campus is Mount Sentinel, rising 2000 feet above the level of the city, upon whose slope the University owns 520 acres, extending to the summit.

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## BUILDINGS

The buildings of the State University are: University hall, Science hall, Natural Science hall, Craig hall, the Library, the Gymnasium, the Forestry building, the Hospital, Simpkins hall, Cook hall, the Campus Bookstore, the Y. M. C. A. hut, and three small buildings occupied by the School of Music as practice and instruction rooms.

University hall contains the offices of general administration, the convocation hall, and classrooms, lecture rooms and laboratories.

Science hall is occupied by the department of Chemistry and the School of Pharmacy.

Natural Science hall, completed January, 1919, is a modern, three-story fireproof building. It contains the classrooms and laboratories of the departments of Biology, Botany, Home Economics and Physics. It has also a large lecture room, equipped with stereopticon and motion picture apparatus.

Craig hall is the women's residence hall.

The Gymnasium is equipped for the physical education of all students. Adjoining it is Dornblaser field, the athletic ground, with its bleachers and tracks.

The Library building contains the University library, the law library, the classrooms of the School of Law and other lecture and classrooms.

The Forestry and Music buildings are frame structures, affording temporary quarters for these schools.

The hospital was constructed for the Students' Army Training Corps. It has now been given over entirely to instructional purposes: the piano department of the Music School occupies two of the wards, and the other two are used as drafting rooms for the School of Forestry.

Simpkins hall and Cook hall are the buildings erected for barracks. They have been remodeled so that Simpkins hall serves as a men's dormitory and Cook hall is the armory of the R. O. T. C. and temporary quarters of the School of Journalism.

The state has provided for the issuance of bonds to the extent of three and three-quarters million dollars for greatly needed new buildings at the four University institutions. It is expected that ground will be broken this summer for a number of these buildings on the State University campus.

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## SURROUNDINGS

Missoula, the seat of the State University, is the principal city in western Montana. It is reached by the main lines of the Northern Pacific and the Chicago, Milwaukee & St. Paul railways and by the Bitter Root, Flathead and Coeur d'Alene branches of the Northern Pacific.

Missoula is a pleasant residence city. Its climate is excellent and its health conditions unsurpassed. The surrounding country, with its mountains, forests and streams, affords most beautiful scenery. Altogether, Missoula is ideally located as a place for college residence.

## ADMISSION

**Certificates of application for admission properly filled out by the student and his high school principal should be sent to the Registrar a month in advance of registration. 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. By so doing time will be saved in registration and possible serious inconvenience avoided.**

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

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

The graduation from 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. The required units must include three units in English composition and literature and one in American history and government.

In order to have greater freedom in the selection of courses after entering the University, students are advised to include also three units in science and mathematics, two in a foreign language, and one additional unit in history and social science.

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### ADMISSION BY CERTIFICATE OR EXAMINATION

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 on the presentation of an official certificate of graduation, 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.

Any other person must, in order to be admitted to regular standing,

pass a satisfactory examination 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 1921-22 the examination days are September 26 and 27, and for the Winter and Spring quarters by special arrangement.

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### **ADMISSION BY TRANSFER FROM OTHER COLLEGES AND UNIVERSITIES**

Students from other colleges and universities of recognized standing will be admitted without condition on presentation of certificates from such college or university that they have completed the regular entrance requirements and have an honorable dismissal.

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 of the Montana State Normal College who have earned credits after the completion of the two-years' course will be given hour-for-hour credit in subjects of university or college character up to a maximum of 45 credits.

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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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### **SPECIAL STUDENTS**

Students twenty-one years of age or over, not candidates for degrees, may be admitted without the usual entrance units, as special students,

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\* These fifteen units must include three units of English composition and literature and one unit of American history and government. No less than one full unit in any subject will be accepted, and a student offering foreign language as a part of his preparation must present at least two units in one language.

if they give satisfactory evidence that they are prepared to pursue successfully the special courses desired. Special students may acquire status as regular students upon complying with the rules applicable to such cases.

**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 high school 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.

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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 offered upon graduation in the College of Arts and Sciences and 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 page 44.

The University also issues a certificate for public accountancy under the conditions as set forth on page 108.

The degree of Bachelor of Laws is conferred upon graduates of the School of Law who have previously completed two years of college work and upon special students in law who have made an average grade of B throughout their law course. Those who finish a three-year course in Law but do not comply with the other requirements for graduation are awarded a certificate of completion of the course in law.

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

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 a degree of Pharmaceutical Chemist and graduates of the two-year course receive a degree of Graduate in Pharmacy.

Graduates of the School of Music are awarded the degree of Bachelor of Music. Those who complete the approved two-year course of music are given a Certificate in Music.

## REQUIREMENTS FOR GRADUATION

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 or the school in which they are registered.

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### CREDITS

The work in the University is named in terms of credit and candidates must have the number of credits required for graduation. One credit represents 3 hours of time per week for one quarter of twelve weeks. The time required for each credit may be distributed in any combination between preparation, recitation, lecture, or laboratory work. Candidates for a Bachelor's degree from the College of Arts and Sciences,

the School of Business Administration, the School of Journalism, the School of Music, and the School of Pharmacy, are required to complete 186 credits of work. Candidates for Bachelor's degree in Forestry must complete 192 credits in addition to the 12 credits required in Military Science and Physical Education. Candidates for a degree of graduate in Pharmacy must complete 96 credits and for a degree of Pharmaceutical Chemist, 140 credits.

Regular students, 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. Special students, candidates for this degree, must complete the same course in law with an average grade of "B" throughout their entire course.

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### RESIDENCE REQUIREMENTS

(1) One year of residence in the State University during which the student must complete 45 credits of college work; for at least half this time the student must be registered in the college or school in which he is admitted as a candidate for a degree and in which he must complete satisfactorily not less than 24 credits of college work; (2) students who have fulfilled the residence requirements in other institutions of the University of Montana may graduate with a minimum of a quarter and one-half of residence at the State University, during which time they must earn not less than 24 credits of University work.

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### SENIOR EXAMINATIONS

1. All students, before receiving the degree of Bachelor of Arts from the State University, shall be required to pass a special examination to be known as "Senior Examinations" covering the field of

concentration. Such examination shall not in any way replace the regular quarterly examination. Senior examinations shall be optional with schools granting other degrees.

2. The field of concentration shall include in the College of Arts and Sciences a total of 70 hours embracing the major subject and such additional subjects as the major department may determine. In the vocational and professional schools the field of concentration shall cover the curriculum of such schools or such part of it as each school may determine, but not less than 70 hours.

3. The examination shall mainly be in writing, with the option of a supplementary oral test at the discretion of the department or school.

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 subject shall be furnished by the departments whose work is represented.

5. The examination shall be given in the last quarter of senior residence, and may be arranged in each department or school at the convenience of the parties concerned. Reports on such examinations shall be made to the registrar not less than three weeks prior to commencement.

6. The same grades shall apply as in the quarterly examinations. If a student fails to pass this special examination he may be given another opportunity at any time 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.

7. These regulations shall become effective April 1, 1923.

8. Prior to April 1, 1923, these examinations shall be given only as a means of determining honors. Those who attain a grade of A or B will be designated as graduating with honors.

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## 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 will be permitted to continue his connection with the University who shows persistent unwillingness or inability to comply with these requirements.

If a student is absent from classes 12 times during one quarter, one credit is deducted from the total of his credits acquired and an additional credit is deducted for each additional 12 absences or major fraction thereof. Absences are not counted when a student is absent on departmental work or representing the University in extra-curricular activities.

### ELIGIBILITY RULES

The State University is a member of the Pacific Northwest Intercollegiate Conference, whose rules govern all athletic contests. These rules are: (1) Students must be regularly enrolled in the University; (2) they must hold passing grade in at least 11 credits of regular University work; (3) they must have passed in at least 11 credits of the work of the previous semester; (4) they must not have total delinquencies in their previous records, amounting to more than one-fifth of the number of credits which they have earned; (5) they must register not later than three weeks after the opening of the quarter.

These activities, in addition to athletics, come under the University's eligibility rules: Intercollegiate debate, intercollegiate oratory, contests for University prizes, part in a University play, a trip or formal concert of the Glee Club.

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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.

Of credits counted toward graduation, a student may not offer more than 25 per cent of grade "D."

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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### HONOR ROLL

At the close of each quarter's work, an honor list is published of those students who have gained a grade of at least B in 12 credits, with no grade below C.



## EXPENSES

Women students who do not make their homes with their families are expected to live in Craig Hall, unless permission to live elsewhere is obtained. The University conducts Craig hall. Each room in the hall must have two occupants. The dormitory will house 72 students. Rooms are fully furnished, except that each student is expected to supply necessary sheets, pillow cases, towels, curtains and napkins.

Men students may find board and room in Simpkins hall, the men's dormitory. Men students may also combine in clubs and live economically. The fraternity houses provide economical college homes.

Students will be permitted to live only in such places as have the approval of the University officers.

Rates for room and board at Craig hall and Simpkins hall may be obtained by inquiry of the Registrar of the University at Missoula.

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### RESERVATION OF ROOMS IN CRAIG AND SIMPKINS HALLS

Application for the reservation of a room in Craig and Simpkins halls should be made as soon as the student decides he wishes to live in these residence halls. Rooms are reserved in order of receipt by the Registrar of the application accompanied by a remittance for the reservation deposit. This deposit is returned after the student gives up residence, after deducting for any loss or damage occasioned by the student.

Students not residents of Montana are not accepted in the residence halls as long as there are Montana students on the waiting list.

The reservation fees are as follows:

	Fall, Winter and Spring Quarter	Summer Quarter
Craig Hall .....	\$10.00	\$5.00
Simpkins Hall .....	10.00	5.00

Checks should be made payable to the "State University of Montana." Rates for board and room at residence halls may be obtained on application to the Registrar.

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### RAILWAY FARE REFUND

In accordance with the provisions of Chapter 123, Session Laws of 1917, and under regulations established by the State Board of Education, railway fare in excess of five dollars actually paid by any student for a round trip 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. War tax must be paid by the student.

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, and the alumni of the University of Nebraska residing in Montana, have each established loan funds which 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 from the time of borrowing, or, in exceptional cases, one year after graduation. Loans bear two per cent interest.

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

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### **EMPLOYMENT AND AID FOR STUDENTS**

A large number of students of the University earn either the whole or part of their expenses while in college. Students intending to work their way can usually do so if they come with sufficient means to support themselves for the first half year, though many have made all their expenses from the beginning.

The University cannot guarantee work for students, but those who are strong and willing to do any work that offers will not lack opportunities. A number of students find work about the University, as stenographers, assistants in the laboratories, in the library, in Craig hall, as carpenters, janitors, gardeners, and in other capacities. Others find employment in town as draftsmen, bookkeepers, clerks, reporters, janitors, newsboys, or helpers in homes.

While nothing is more efficient in obtaining work than the personal endeavors of the student, a secretary of student employment will give every aid possible. Particular attention will be paid to the needs of new students. Those wishing employment during the coming year, and new students wishing information, should send their names together with an account of the work they have done, the character of the work they wish to do, and the kind of positions they would be willing to fill, to the registrar.

During summer vacations, students readily find profitable employment in many occupations.

**SCHEDULE OF FEES AND DEPOSITS**

A fee is a fixed charge, no part of which is returnable, except as specified under Refunds. A deposit is intended to serve as a security against losses or breakage; any unused balances are returnable.

**General Fees**

Registration Fee .....	\$10
Payable annually in advance by each student in attendance during the autumn, winter or spring quarter. In no case will any part of this fee be refunded.	
Registration Fee, Summer Quarter.....	\$10
Payable in advance by all students attending the summer quarter. In no case will any part of this fee be refunded.	
Associated Student Activity Fee.....	\$10
Payable annually in advance by all students entering the autumn quarter. Students entering the winter quarter pay \$7; those entering the spring quarter, \$4.	
Late Registration Fee.....	\$2
Payable by students registering after the prescribed registration days of any quarter, except students registering for the first time.	
Changed Registration Fee .....	\$1
Payable by any student for changes in the study list made after the second week of any quarter.	
Limited Registration Fee, each course, each quarter.....	\$2
Payable by special students, registering for not more than two courses.	
Special Attendance Fee, each course, each quarter.....	\$2
Payable by adults not regularly registered but attending classes as listeners.	
Special Examination Fee .....	\$1.00 per credit
Payable by students applying for special examinations except:	
(1) where failure to take regular examination was due to illness of student or fault of the University.	
(2) examinations for entrance credit taken at dates regularly designated in the University calendar.	
Library Deposit .....	\$3
Payable by all students.	
Key Deposit .....	\$.50
Payable by all students and staff members receiving and holding keys to University buildings, rooms or gymnasium lockers.	

## Course Deposits and Fees

<b>Biology:</b>	<b>Fees</b>	<b>Deposits</b>
11. Elementary Zoology .....	\$2.50 per Q.	
13. Animal Ecology .....	2.50 per Q.	
16. Protozoology .....	2.50 per Q.	
17. Entomology .....	2.50 per Q.	
19. Bacteriology .....	5.00 per Q.	
21. Histology .....	2.50 per Q.	
22. Embryology .....	2.50 per Q.	
23. Comparative Anatomy .....	3.50 per Q.	
24. Physiology of the Human Body.....	2.00 per Q.	
118. Entomology, Advanced .....	2.50 per Q.	
122. Histology, Advanced .....	2.50 per Q.	
120. Bacteriology, Advanced.....	5.00 per Q.	
 <b>Botany:</b>		
11. General Botany .....	\$1.00 per Q.	\$2.00 per Q.
12. Elem. Plant Structure.....	1.00 per Q.	
14. Economic Botany .....	1.00 per Q.	
21. Plant Histology .....	2.50 per Q.	
22. Plant Physiology .....	2.50 per Q.	
25. Rural Botany .....	1.00 per Q.	
31. Forest Pathology .....	2.50 per Q.	
63. Dendrology .....	1.50 per Q.	
F1. Forest Botany .....	1.00 per Q.	
F2. Range Plants .....	1.00 per Q.	
141. Comparative Morphology .....	2.50 per Q.	
151. Ecology .....	2.00 per Q.	
161. Systematic Botany .....	1.00 per Q.	
165. Systematic Mycology .....	1.50 per Q.	
166. Systematic Mycology .....	2.50 per Q.	
 <b>Chemistry:</b>		
11. General Chemistry .....	\$3.00 per Q.	\$2.00 per Q.
13. Inorganic Chemistry and Qualitative	3.00 per Q.	2.00 per Q.
15A. Qualitative Analysis .....	4.00 per Q.	3.00 per Q.
15B. Qualitative Analysis .....	4.00 per Q.	3.00 per Q.
17. Quantitative Analysis .....	4.00 per Q.	3.00 per Q.
18. Fire Assaying .....	6.00 per Q.	
19. Organic Chemistry .....	4.00 per Q.	3.00 per Q.
101. Carbon Compounds .....	4.00 per Q.	3.00 per Q.
102. Organic Qualitative Analysis.....	4.00 per Q.	3.00 per Q.
103. Physiological Chemistry .....	4.00 per Q.	3.00 per Q.
104. Chemistry and Analysis of Foods.....	4.00 per Q.	3.00 per Q.
105. Textile Chemistry .....	4.00 per Q.	
106. Physical Chemistry .....	4.00 per Q.	3.00 per Q.
111. Technical Analysis .....	4.00 per Q.	3.00 per Q.
200. Advanced Courses and Research.....	4.00 per Q.	3.00 per Q.

Note: When the same individual elects simultaneously two or more courses in Chemistry, he must pay in full for the course with the highest fee and deposit, but only one-half the fee and one-half the deposit for the other courses.

<b>Geology:</b>	<b>Fees</b>	<b>Deposits</b>
11. General Geology .....	\$ .50 per Q.	
15. Physiography .....	1.00 per Q.	
24. Physical Mineralogy .....	3.00 per Q.	
25. Blowpipe Analysis .....	2.00 per Q.	

**Home Economics:**

13. Foods .....	\$5.00 per Q.	
13c. Foods .....	5.00 per Q.	
15. General Food Study.....	5.00 per Q.	
21. Foods .....	5.00 per Q.	
22. Elementary Dietetics .....	3.50 per Q.	
121. Foods .....	5.00 per Q.	
122. Advanced Dietetics .....	5.00 per Q.	
123. Health Education .....	5.00 per Q.	
129. Food Demonstration .....	5.00 per Q.	
137. Food Seminar .....	3.00 per Q.	
12. Clothing .....	1.00 per Q.	
14. Clothing .....	1.00 per Q.	
18. Clothing .....	1.00 per Q.	
32. Millinery .....	2.00 per Q.	
117. Textiles .....	2.00 per Q.	
120. Clothing .....	1.00 per Q.	
128. Clothing Demonstration .....	2.00 per Q.	
141. Clothing Economics .....	2.00 per Q.	
143. Clothing Seminar .....	2.00 per Q.	

**Music:**

Voice, Piano or Violin (under professor).		
1 lesson per week.....	\$24.00 per Q.	
2 lessons per week.....	45.00 per Q.	
Students registered for less than a full quarter will be charged at the rate of \$2.25 per lesson.		
Voice, piano, or violin (under assistant instructors).		
1 lesson per week .....	18.00 per Q.	
2 lessons per week .....	33.00 per Q.	
Students registered for less than a full quarter will be charged at the rate of \$1.75 per lesson.		
Group instruction in voice (four in class).		
1 lesson per week .....	12.00 per Q.	
2 lessons per week .....	20.00 per Q.	
Harmony .....	3.00 per Q.	
Piano Rent.		
Use of piano one hour per day.....	3.00 per Q.	
Each additional hour per day.....	2.00 per Q.	
Piano rent must be paid for full quarter.		

**Pharmacy:**

11. General Pharmacy .....	\$3.00 per Q.	\$2.00 per Q.
13. Pharmacognosy .....	2.00 per Q.	
22. Drug Analysis .....	2.00 per Q.	2.00 per Q.
25. Dispensing .....	2.00 per Q.	2.00 per Q.
35. Advanced Analysis .....	2.00 per Q.	2.00 per Q.

**Physics:**

11.	College Physics .....	\$1.00 per Q.
12.	Household Physics .....	2.00 per Q
20a.	Mechanics, Molecular Physics and Heat .....	2.00 per Q.
20b.	Electricity, Sound and Light.....	2.00 per Q.
31abc.	Junior Laboratory .....	1.00 per cr. hr.
114.	Electrical Measurements .....	2.00 per Q.
141abc.	Senior Laboratory .....	1.00 per cr. hr.

**Physical Education:**

Physical Education .....	\$1.00 per yr.
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**Forest Rangers' Course:**

Registration Fee .....	\$3.50
Associated Students Activity Fee.....	3.00
Library Deposit .....	3.00

**Correspondence Work:**

Regular Courses .....	\$2.50 per credit
In excess of 5 credits registered for at the same time .....	2.00 per credit

**Payment of Fees**

At the beginning of the autumn quarter, all fees and course deposits must be paid at the time of registration, and students will not be permitted to attend classes until they have taken care of their fees. At the beginning of the winter and spring quarters all fees and deposits must be paid within ten days of the opening of the quarter, and students will be required to leave classes at this time if their fees are not paid.

**Refunds to Students Who Withdraw During a Quarter.**

In case a student withdraws from the University, refund of laboratory fees shall be made as follows:

During the first week following the last day of registration, a refund of 90%, the University to keep 10%.

During the second and third weeks.....refund 80%, keep 20%

During the fourth and fifth weeks.....refund 60%, keep 40%

During the sixth and seventh weeks.....refund 40%, keep 60%

During the eighth week.....refund 20%, keep 80%

Thereafter, no refunds will be made.

In the case of course deposits, refunds will be made at any time that a student withdraws, on the basis of the amount which the department indicates should be returned to him.

There will be no refunds of fees for late registration, nor for change of registration.

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. No refunds will be made on piano rent.

Refund of the A. S. U. M. fee will be made as follows:

If students withdraw at any time during the autumn quarter, \$6.00 will be refunded.

If they withdraw at any time during the winter quarter, \$3.00 will be refunded.

Refundable fees and deposits must be claimed within thirty days after the close of the quarter for which they were paid; otherwise they will be forfeited.

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## SCHOLARSHIPS AND PRIZES

The Scholarship committee in conference with the president is 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 conditioned upon performance in, or in relation to, the work of a department of the University the award shall be made by the committee 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 customary fees in any of the institutions of the University of Montana. Blanks for the nomination of scholars, with detailed statement of conditions, will be furnished to the principals.

The privileges of a High School Honor Scholarship may be retained only as long as the student maintains a satisfactory standard of scholarship.

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### THE RHODES SCHOLARSHIPS

Men who have completed their sophomore year at the State University of Montana, and are between 19 and 25 years in age, are eligible to

compete for the Cecil Rhodes Scholarships, tenable for three years at Oxford University, England, with a stipend of three 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 H. G. Merriam, State University, Missoula, Montana, who is secretary of the Rhodes Scholarship Committee of Selection for Montana.

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### 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 Mr. Mark Fawcett of Sidney.

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### STRAUGHN SCHEUCH SCHOLARSHIP

The following statement of conditions has been approved by the donors of the Straughn Scheuch Scholarship, to govern the award for the year 1921-1922. The award will be announced at Commencement in June, 1921:

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: provided that Mr. J. H. T. Ryman shall be the said third member during his lifetime or until he resigns.

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### STATE FEDERATION OF WOMAN'S CLUBS SCHOLARSHIPS

Upon the nomination of the officers of the Montana Federation of Woman'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 holders of such scholarships are exempted from the payment of all customary fees, except the student activity fees and the special tuition fees in music. They are expected to make the required course deposits. The Federation of Woman's Clubs assumes the payment of expenses for board, room rent and necessary books. The present holders of this scholarship are Ruth Cavin of Missoula and Alfretta Philpott of Columbus.

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### **BUTTE COLLEGE CLUB SCHOLARSHIPS**

The Butte College club has established three scholarships in the University, open to girl graduates of the Butte High School, only. These scholarships are on the loan basis, \$300 being allowed each year to each recipient. To be eligible, the student must have made high grades in the high school and must receive the vote of two-thirds of the club's active membership. The first of these scholarships is the Claribel Leggat Couse scholarship, named in honor of a charter member of the club. The second is the Eleanor Humphrey Smith scholarship, named for a former president of the club. The third is the Rosemary MacGinnis Creden scholarship, founded in honor of a present active member of the club. Each scholarship is awarded by the club in the spring, whenever there is a vacancy. The present holders of these scholarships are Sadie Erickson, Norine Killoy, and Cora Sellers.

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### **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 1920 this prize was divided between Mrs. Lillian G. Woody and Miss Eugenia Frohlicker.

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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 is 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.

### **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 shall be awarded annually to the student holding highest rank in a department to be named from year to year by members of the class of 1904 in rotation.

In case the class fails to indicate the department by January 1 the committee shall then decide the department in which the prize is to be awarded in that year.

The prize for 1919-20 was awarded to Harry E. Watson of Square Butte.

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### **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 by the committee upon recommendation of the Art Department.

The prize for 1920 was won by Miss Mildred Burgess of Helena.

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### **ABER MEMORIAL ORATORICAL PRIZES**

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.

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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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### **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 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, throughout their course, will be exempt from the payment of all regular fees, but not laboratory deposits or special course tuitions.

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### **S. A. T. C. SCHOLARSHIPS**

A scholarship carrying the same exemption from fees as the Military

Service Scholarship is granted to all students of the University of Montana who met all the requirements for membership in the Student Army Training Corps and actually took up work in one of the corps of the University, but who were deprived of induction through the action of the war department, cancelling all inductions which were not complete November 11, 1918. These scholarships are known as the Student Army Training Corps scholarships. Application for exemption of fees under these scholarships must be made in writing and transmitted to the Registrar.

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#### **SILVER BOW CHAPTER D. A. R. HISTORY 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. Awarded in 1920 to Elva Burt of Forsyth.

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#### **PRIZES IN PHARMACY**

The prizes in Pharmacy shall be awarded by the committee on recommendation of the dean. These each consist of membership in the American Pharmaceutical Association. They are awarded on the following conditions:

The Alex F. Peterson prize for scholarship and proficiency in manufacturing pharmacy. Awarded in 1920 to Sam M. Herschfield of Butte.

The Charles E. Mollet prize for scholarship and proficiency in pharmacognosy. Awarded in 1920 to Stanley W. Curtis of Los Angeles, Calif.

The J. F. Suchy prize for scholarship and proficiency in manufacturing pharmacy. Awarded in 1920 to L. W. Folkstad of Lambert.

To show its approval of the work of the School of Pharmacy, the Montana Pharmaceutical Association, at the July, 1920, meeting, established two prizes of fifty dollars, each to be awarded annually to a first year and second year student, upon the recommendation of the dean.

The award will be made on October of each year and applications for this prize must be sent to the dean before October.

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#### **THE MONTANA TROPHY**

The Montana trophy shall be awarded annually to the student possessing the highest all around excellence in athletics and scholar-

ship. The trophy is a silver cup, given by Professor W. E. Schreiber, chairman of the Department of Physical Education.

### INTERSCHOLASTIC PRIZES

The administration of these is under the direction of the Interscholastic Committee in co-operation with the department concerned, with the exception of the Keith prize in debating.

The cost of the prizes awarded by the University is borne by the interscholastic fund apportioned in the budget.

The following prizes are awarded at the annual interscholastic meet:

**University Cup.** The State University awards a souvenir cup to the high school whose representative wins first place at the final interscholastic debate contest. The high school winning the cup should hold it until the time set for the next regular contest, at which time the cup should be returned to the University so that it can be given to the high school that next wins the championship. Any school winning the cup three times shall become the permanent owner of it.

**Dixon Medal.** A gold medal is given by Governor Joseph M. Dixon to the best debater in the final contest.

**Knowles Prizes.** The Judge Hiram Knowles prize is a set of books given to each of the representatives who win second, third and fourth places at the final contest.

**University Medal.** The University gives a gold medal for the best essay written by any member of the graduating classes of the accredited state high schools.

**John M. Keith Prize in Debating.** A prize of \$50 given annually by Mr. John M. Keith shall be awarded to one of the high school debaters chosen by the president of the University in consultation with the president of the High School Debating league from representatives in the final district championship teams of the league. Each championship high school is entitled to submit one application.

The scholarship will be paid to the student in two installments, one on October 1, the other on February 1 of the first year of his or her enrollment at the University.

Applications for the scholarship must be made to the president of the University at the earliest practicable date before June 1 of each year. Each application should be accompanied by credentials showing the amount and quality of high school work done by the student, and by recommendations showing the applicant's promise of future usefulness. Only members of the graduating classes will be eligible. The present holder of the Keith prize is Paul L. Anderson of Boyd.

**Prizes in Declamation.** Gold, silver and bronze medals are given to the winner of first, second, and third places, respectively, in the contest for boys.

Similar gold, silver and bronze medals, and blue and red ribbons

are given the winner of first, second, third, fourth and fifth places, respectively, in the contest for girls.

The Missoula Cup. A silver trophy, given by the Missoula Mercantile company, is awarded to the school which wins the greatest number of points in athletics in five years.

The University Cup. The University will give a silver cup to the team winning the relay race.

The Victor Relay Cup. The Victor Relay cup, given by the Whitney Sporting Goods company, is permanently awarded in 1924 to the school whose relay teams shall have won the greatest number of points in the relay races for five years.

The Spalding Cup. This cup, presented by A. G. Spalding & Bros., is given temporarily each year to the school winning the greatest number of points in the meet. It is awarded permanently to the school first winning the meet three times.

The Montana Cup. The Montana cup, given by the University, is awarded permanently to the team winning the meet.

The University gives gold, silver and bronze medals, suitably engraved, and blue and red ribbons, for winners of first, second, third, fourth, and fifth places in all events, a total of 70 prizes for the 14 athletic events.

The University also gives an individual prize to the contestant winning the greatest number of points in the meet.

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### **TIME LIMIT FOR PRIZE CONTESTS**

All contests for prizes shall be concluded not later than four weeks preceding Commencement day.

Recommendations from departments to the committee in the matter of awards shall be made not later than the third week preceding Commencement day, unless otherwise specified herein.

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### **ELIGIBILITY**

In the case of competitive prizes (Joyce Memorial Prize, Bennett Essay Prize, Aber Memorial Oratorical Prizes, and similar prizes which may be established later) students are subject to the same requirements as to eligibility as pertain to other forms of extra curricular activity. Students are not permitted to enter preliminary trials when for any reason they could not become eligible for the final contest.

No student may be eligible for an honor or prize awarded in the University who at any time during the same year has been placed upon probation, and any scholarship previously bestowed as an honor or prize shall be forfeited whenever the student holding the same enters upon probationary status.

## MISCELLANEOUS

### 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 by the Registrar, the Dean of Men and the Dean of Women. 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, normally at 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 relation 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.

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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 teachers 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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### UNIVERSITY PUBLICATIONS

A series of bulletins is published by the University, partly as official announcements and records, partly as contributions to science by various members of the faculty. The University issues the usual bulletin of information concerning the University. A circular is issued at irregular intervals and contains various special announcements. University studies are issued quarterly, and contain the contributions resulting from the investigations and research in the several departments and sub-divisions of the University. Syllabi contain outlines of certain courses of instruction. The News-Bulletin, issued weekly, contains news stories of

University events, and is sent to the principal newspapers of the state, press associations and others.

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### SOCIETIES

The whole body of students is organized in one society entitled the Associated Students of the State University of Montana. This society, through appropriate committees, manages such general interests as athletics, oratory, debates and entertainments.

A branch of the Y. W. C. A. is organized in affiliation with the intercollegiate association. There is a Religious Forum for Men. These associations and the Catholic Students' Association carry on work for the religious and social life of the University.

Five musical organizations are in existence, the University Glee Club, composed of young men; the Girls' 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 Penetralia Society is an honor organization of women students devoted to advancing the interests of the University in every feasible way.

The Silent Sentinel Society is a similar organization of men students.

The Forestry Club has an active membership of 70 students and teachers in the School of Forestry. Meetings are held fortnightly and are open to the public. The purpose of the organization is to promote interest in forestry and forest engineering, and to encourage fellowship and professional spirit among the members of the club.

The Art League, organized in 1917, has an enrollment of all the students registered in courses in the department of Fine Arts. In organization, the league follows the plan of the leagues in Chicago and New York.

Other student organizations are as follows: The Press Club, the Pharmaceutical Society, the Mathematics Club, the Chemistry Club, the Social Science Club, the Home Economics Club, the Law School Association, Commercial Club, "M" Club, Masquers' Club, Mortar Board, and the Rifle Club, which is affiliated with the National Rifle Association.

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### HONORARY AND PROFESSIONAL FRATERNITIES

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.

Tau Kappa Alpha is a national honorary fraternity of men who have shown themselves gifted in oratory and debate.

Alpha Kappa Psi is a national commercial fraternity with a membership of 20 students doing major work in the department of business administration.

Ye Mermaid Inn is the local chapter of Sigma Upsilon national literary fraternity.

Pi Delta Alpha is a local legal fraternity organized to maintain high ideals in ethics and scholarship, to promote dignity, fraternalism and good fellowship among its membership and the student body of the School of Law. 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.

Kappa Tau is a local honorary fraternity founded upon scholarship.

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

Iota Phi Upsilon is a similar organization for women students in Pharmacy.

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.

Theta Alpha Phi is a national dramatic fraternity open to both men and women.

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

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### INTERCOLLEGIATE DEBATE

The State University has a very creditable record in intercollegiate debating. In 1920-21 the University schedule has included contests with Montana State College, Washington State College, University of Idaho, University of Utah, and Columbia University of New York. The last debate, held in Butte, which resulted in a divided decision in favor of Columbia, brought the debating interests of the University favorably before the state. Both scholastic credit and student body awards are given for participation in intercollegiate debates.

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### PUBLICATIONS BY STUDENTS

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

The *Sentinel* is a yearbook 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.



### WOMEN IN THE UNIVERSITY

The academic and social welfare of the women students is under direct supervision of the dean of women.

All young women whose homes are outside of Missoula live in the University hall of residence, in the Eloise Knowles cottage, in chapter houses or in approved residences.

The University maintains one large hall of residence, Craig hall, which accommodates about seventy students. Miss Inez Bozorth is the director. The women who live in this hall have adopted a form of self-government with officers chosen from the members. These officers, together with the director, form a house committee to whom all matters of importance are referred.

The Eloise Knowles cottage accommodates ten women. Mrs. H. B. Murray is the matron in charge.

For the benefit of those women who are not accommodated in Craig hall, or the Knowles cottage, the dean of women has prepared a list of addresses where rooms for young women may be obtained, which will be sent upon request. All houses have been inspected by her, and although responsibility cannot be assumed by the University, they are believed to be suitable homes for women students. The discipline of such houses is controlled by the students themselves under the supervision of the Woman's Self-Government Association and the dean of women. Arrangements for such rooms must be made directly with the women in charge of the houses, and should be made early by those who desire a choice of rooms.

Women students are not permitted to change their residence during any one quarter without first consulting the dean of women.

All women students are required to report to the dean of women in order that they may register their addresses and may be directed, if rooms have not been obtained. All changes of address should be reported promptly.

### Organizations

The Woman's Self-Government Association is an organization including all women students, the object of which is: to regulate all matters pertaining to the student life of its members which do not fall under the jurisdiction of the faculty; to further in every way the spirit of women of the University, to increase their sense of responsibility toward each other and to be a medium by which the social standard of the University can be made and kept high. The executive board of the W. S. G. A. is composed of representatives from Craig hall, each sorority house, each lodging house where six or more girls reside, and from the girls who live in Missoula.

The Town Girls' League is an organization composed of girls who reside in Missoula.

Mortar Board is an organization of senior girls.

The Young Women's Christian Association is an organization open

to all women of the University. Its purpose for existing on the campus is to promote growth in Christian faith and character and to develop a sense of responsibility of leadership among the college women toward those less favored than themselves. Regular weekly meetings are held on Tuesday afternoon at 4:30 and discussion groups at various houses through the week to stimulate thinking beyond the immediate affairs of the local campus.

Physical Education Promoters, commonly known as P. E. P., is an organization to promote the interest of physical education in this institution; to awaken generally a more intelligent interest in physical education; to acquire and disseminate knowledge concerning it; to labor for improvement and extension of gymnastics, games and athletics; and to bring the members composing it into a closer professional and social relationship. Meetings are held in the gymnasium on the first and third Tuesdays of every month.

Home Economics Club is an organization to develop friendliness by bringing all the members of the club together on a common plane; to develop co-operation and independence through the assumption of responsibilities which are for the best interests of the University; to develop civic responsibility; to inspire the individual to greater heights in education; to give every young woman a clearer conception of the duties and responsibilities of the homemaker. Meetings are held on the second and fourth Wednesdays of each month in the Domestic Art room of the department.

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## ATHLETICS

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

The gymnasium is well equipped with dressing rooms and shower baths. There is also a good equipment of apparatus and special developing appliances. The main exercise hall is floored with narrow maple flooring, giving an excellent surface for general exercise and basketball. The athletic field is located conveniently to the gymnasium in the north-east corner of the campus. There is a quarter-mile cinder track, 20 feet broad and a straightaway 240 yards long and broad enough for eight lanes of hurdles. The football field is located within the circular track and its turf surface makes it one of the best fields in the country. The baseball diamond is located to the south of the football field, outside the running track. Bleachers line the straightaway and are 12 tiers high, offering an excellent view of the center athletic field. Tennis courts are provided.

### ANNUAL INTERSCHOLASTIC GAMES

For fifteen years the University has held annual interscholastic invitation meets for track and field contests on Montana field. Invitations to participants 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 interscholastic debate to decide the state championship—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. Among the provisions of the constitution is that the president shall be a member of the faculty of the University. Another is that the final contest shall take place at or before the time of the interscholastic meet.

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### THE LIBRARY

The General Library, consisting of about 50,000 volumes and 25,000 pamphlets, occupies the main floor of 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 400 periodicals, the current numbers of which are available in the reading room, as are newspapers and college exchanges. Through the courtesy of the editors a large number of the city and county newspapers of Montana are sent to the reading room for the use of students.

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. It is the state center for distribution of A. L. A. Library War Service books to ex-service men.

The Library is open from 7:55 a. m. to 5:30 p. m., and from 7:00 to 9:30 p. m. except on Saturday, when the hours are from 8:00 a. m.

to 12:30 p. m., and from 1:30 to 5:00 p. m. The Library is closed on Sunday. Persons not connected with the University are free to use the books.

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 any one 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 new 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 result of twenty years of effort includes much that is of value.

It is now possible to build a museum that will be of great service to the University and to 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. The scientific and historic sections are now much used in instructional work.

It is most earnestly requested that all who are interested in the University, and especially 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.

In brief summary the museum collections are: a collection of more than 1,000 bird skins almost entirely from the state; several thousand shells, including an almost complete collection from the state so far as known; several thousand insects, including those collected in the state during many years, those received by exchange and those purchased; a collection of fishes, partly from the United States Bureau of Fisheries, the remainder collected in the state or purchased; the Wiley collection of more than 1,000 species of lepidoptera; a collection of plants embracing several thousand species, including the private collection donated

by Professor M. J. Elrod, many additions through collecting in the state during many seasons, large additions, through exchange, and many by purchase; a collection of fossils, almost entirely from the state, partly donated, the remainder collected; a collection embracing coals, rocks, concentrate samples, building stones, brick, tile and pottery, developed and produced in the state; a set of the series of educational rocks prepared by the United States Geological Survey; a collection embracing money, historical relics, souvenirs and promiscuous articles.

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

### TRAINING FOR THE PROFESSION OF TEACHING

Training for the teaching profession is carried out under the direction of the Department of Education with the co-operation of the several departments of instruction, the work of which contributes to such professional training.

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.

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

#### University Certificate of Qualification to Teach.

The Certificate of Qualification to Teach is granted to persons who secure the Bachelor of Arts or the Master's Degree from the State University, and who complete the required professional courses established by the state authority.

Candidates for the certificate must take the professional courses marked by the (\*) in the outline of courses offered in the Department of Education. These courses are History of Education, Principles of Education, Educational Psychology, the High School, Observation and Teaching, and School Hygiene. ✓ All these courses carry credit toward the University degree except Observation and Teaching, which counts toward the certificate only. When, however, the work is done under standardized conditions and takes from one-third to one-half of the student's time for one quarter, or the equivalent, the course carries five credits toward degree. General Psychology (10 credits) is prerequisite to courses in Education.

The candidate for the certificate is required to specialize in one field to be known as his **major**, and, to a less degree, in one or more fields known as his **minor** or **minors**. He should have from 40 to 54 credits of work in his major field. If the candidate has one major of

54 credits he may qualify by having one minor of 27 credits. If the candidate has less than 54 credits in his major he must have two minors aggregating 42 credits. 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.

The course in Observation and Teaching is given under the supervision of the Department of Education. It will be the equivalent of not more than 3 credits a week for two quarters.

By agreement with the Missoula county high school and the Missoula city schools, observation and teaching is carried on through the year by students who are recommended as candidates for the Certification of Qualification to Teach.

Major work should include a course in Special Method of the subject, of the value of at least 1 credit.

In no case shall a candidate for this certificate be required to take more than 54 credits in the major department.

All general questions relating to each student's professional work are under the supervision of a special committee, of which the head of the Department of Education is the chairman. All recommendations for teacher's certificate are made to the faculty through this committee.

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

#### **Credits on Other Certificates**

Students taking University courses and desiring therefor credit 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 Education Department, and the professor 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.

#### **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 Assistant Professor W. R. Ames is chairman. Confidential data is collected showing the preparation, character, ability, and success of persons interested in school positions, and this data is furnished school authorities upon application. This service is rendered gratuitously to teachers, educators and the schools of the state.

# Organization for 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—Geology.
  - 9—History and Political Science.
  - 10—Home Economics.
  - 11—Latin and Greek.
  - 12—Library Science.
  - 13—Mathematics.
  - 14—Military Science.
  - 15—Modern Languages.
  - 16—Physical Education.
  - 17—Physics.
  - 18—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 QUARTER.
- 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

## 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; 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 less 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.

Candidates for a degree of Bachelor of Arts in the College of Arts and Sciences must complete 186 credits of University work, of which not more than one-fourth may be of "D" grade. Of these not less than 93 credits must be in the College of Arts and Sciences. Not more than 27 credits in music, nor more than 12 credits in Military Science will be counted toward graduation.

The College of Arts and Sciences aims primarily to give the student a liberal education while at the same time giving him special training in some chosen field of work. For this purpose it has adopted a flexible curriculum. The student must select 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. For this purpose the student is required to take courses in each of the larger divisions included under Liberal Arts.

If a student pursues in high school the courses advised for those preparing to enter the University, the required courses will be very few. If he does not pursue the courses advised for high school students preparing to enter the University he will have to take University courses equivalent to the high school courses which he lacks. One unit of high school work is regarded as equivalent to eight credits of University work. The required courses in the College of Arts and Sciences are classed as follows:

- A. Courses required either in high school or in college but which are recommended for high school:
  1. English Composition and Literature; 3 units or 24 credits.
  2. Foreign Languages; 2 units or 16 credits in one language.



3. Biology, Botany, Chemistry, General Science, Geology, Mathematics, Physical Geography, Physiology, Physics, Zoology; 3 units or 24 credits.
  4. Economics, History, Political Science, and Sociology; 2 units or 16 credits.
- B. In addition to the subjects recommended for high school, all candidates for a baccalaureate 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. College Education, 1 quarter required of all freshmen.
  4. English, 2 quarters (8 credits). The first quarter devoted to work in composition 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 C or better in the first quarter of required English Composition, shall be excused from the second quarter providing that he submits during the quarter preceding normal election of the second quarter of English Composition, three papers which are satisfactory to the English Department.
  5. Foreign Language, two quarters (10 credits) in the same language offered from high school. Students who offer three entrance units in one language are required to take only one quarter (5 credits) in the University, and those who have completed four entrance units in one language are exempt from further language requirements in the University.
  6. Astronomy, Biology, Botany, Chemistry, Geology, Mathematics, Physics; 3 quarters (12 credits). 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. In the University the student must complete not less than eight credits in some one of the sciences of this group.
  7. Economics, History, Political Science, Sociology, 2 quarters (8 credits).
  8. 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. 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 186 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. College Education, 1 credit.
  4. In addition to Physical Education, Military Drill, and College Education, freshmen in regular standing are required to take at least two different courses selected from Group B on page 48. 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, Military Science, and College Education.
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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 selected from Group B, page 48.
- 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 grades of "A" or "B" in one-half of their work and who have received no grade lower than "C" 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 can not 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. ASSISTANT PROFESSORS, JOHN X. NEUMAN, HUMPHREY G. OWEN.

Students who do major work in Biology must take courses in the department to the extent of 45 credit hours. They must have a reading knowledge of German or French, or preferably of both. They must complete Botany 11 (2 Q.), Chemistry 11, and Geology 11. See page 104 for suggested course for students preparing to study medicine.

### For Undergraduates

**11. Elementary Zoology.** 3 Q. Autumn, winter, spring. Continuous. 12 cr. Introduction to the study of animals, dealing with their anatomy, distribution and habits. Textbooks, lectures, library references and laboratory work, the latter requiring one-half of the time. Field excursions. Attention to local fauna. Mr. Elrod, Mr. Owen, and others.

**12. Forest Zoology.** 1 Q. Winter. 5 cr. Prepared for students in the School of Forestry. Mr. Elrod, Mr. Owen.

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

**16. Protozoology.** 1 Q. Winter. 4 cr. Prerequisite, Elementary Botany or Zoology. A study of the life histories of various protozoans, their structure, habits, reproduction, distribution; their relation to animals and man as producing diseases. Mr. Elrod or Mr. Owen.

**17. Entomology.** 1 Q. Spring. Summer. 5 cr. Prerequisite, Zoology 11 or 12. Open to all students. Insects, including their structure, classification, distribution, benefits and injuries, and their relation to animals and man through diseases. Mr. Owen.

**19a. General Bacteriology.** 1 Q. Autumn. Spring. 4 cr. Prerequisite, General Chemistry, and either Botany or Zoology. This course is planned specially to meet the wants of the students in the School of Pharmacy and the Department of Home Economics. It will be specially serviceable to students preparing for medicine or other technical work. Mr. Neuman.

**19b. General Bacteriology.** 1 Q. Winter. 4 cr. Continuation of course 19a.

**20. Eugenics.** 1 Q. Autumn. 3 cr. Not open to freshmen. Students entering this course must have a general knowledge of botany or zoology. A discussion of the fundamental principles involved in the better development of man and animals. Lectures, textbook and library. Mr. Elrod, Mr. Owen, Mr. Neuman.

**21ab. Histology.** 2 Q. Autumn, winter. 4 cr. each quarter. Prerequisite, Zoology 11. Practical course in the technique of sectioning, staining and mounting organisms and tissues. Two lectures or recitations and two laboratory periods. Mr. Elrod.

**22ab. Embryology.** 2 Q. Autumn, winter. 4 cr. each quarter. Prerequisite, Zoology 11. The course deals with the early development of animals, with special reference to the chick. Two lectures and recitations and two laboratory periods. Mr. Owen.

**23. Comparative Anatomy.** 1 Q. Spring. 5 cr. Prerequisite, Zoology 11. Planned for students in Physical Education, and for those who wish to enter a medical school. One-half the work is in the laboratory. Mr. Elrod.

**24ab. Physiology of the Human Body.** 2 Q. Autumn, winter. 4 cr. each quarter. Prerequisite, sophomore standing. A year of chemistry and a year of elementary botany or zoology are essential in preparation. Dealing with the structure and function of the parts and organs of the human body. Planned to meet the requirements of teachers, students of Physical Education, Home Economics and Pharmacy, and those wishing a course of general information. Two lectures or recitations and two laboratory periods per week. Mr. Neuman.

**25. Teaching Biology.** 1 Q. Spring. 3 cr. Prerequisite, junior standing. Lectures and discussions dealing with the various methods of presenting the subject, selections of apparatus, preparing a laboratory, selecting a library, and the various topics that come to the teacher for solution. This course, together with the similar course offered in Botany and Geology, may be advantageously taken as a year's course in the teaching of the natural sciences. Mr. Elrod, Mr. Owen, Mr. Neuman.

**26. General Hygiene.** 1 Q. Spring. 3 cr. An informational course for all students, 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. Mr. Neuman.

#### For Undergraduates and Graduates

**115. Evolution.** 1 Q. Winter. Spring. 3 cr. Prerequisite, one year of botany or zoology. Lectures and assigned readings. Deals with the facts supporting the doctrine of evolution, and touches upon the various ideas and theories advanced at different times, by different men. Mr. Owen.

**118. Entomology, Advanced.** 1 Q. to 4 Q. Autumn, winter, spring, summer. Credit to be arranged. Prerequisite, Entomology 17. Intended

for those who may wish to make advanced study in insects. Individual work will predominate, the student taking special groups of insects or special insect problems. Mr. Owen or Mr. Elrod.

**120. Bacteriology, Advanced.** 1 Q. Spring. 3 cr. Prerequisite, Bacteriology 19. Immunology, serology, and animal experimentation. Practical application of the laboratory to clinical diagnosis. Lectures and laboratory. Mr. Neuman.

**122. Histology, Advanced.** 1 Q. Winter. 4 cr. Follows Histology 21, with special reference to tissue structure and to pathology. Special work and special problems may be taken up by students individually.

**129. Biological Seminar.** Autumn, winter, spring. Credit each quarter. Required of students majoring in biology, and 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. Special investigations in special work, with reports. Mr. Elrod, Mr. Owen, Mr. Neuman.

**131. Research.** 1 Q. 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. Owen, Mr. Neuman.

#### For Graduates

**201. Research.** 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.

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Note: For details concerning the Biological station see pages 149-50.

## BOTANY

PROFESSOR, J. E. KIRKWOOD. ASSISTANT PROFESSOR, PAUL W. GRAFF. INSTRUCTOR, ALBERT N. STEWARD.

Students who do major work in Botany must take courses in the department sufficient to total from 40 to 50 credits, the distribution to be determined with reference to the needs of the individual student. 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, 13, 21, 22, 161, 141, 171; or otherwise upon arrangement. Major students are required also to take Zoology 11, Geology 11, and at least one year of French. Chemistry 11 is recommended.

The following courses do not meet the requirement for restricted elective in science: 12, 13, 14, 15, 17, 25.

### For Undergraduate

11. **General Botany.** 2 or 3 Q. Autumn winter, spring. 4-5 cr. each quarter. No credit given for less than two quarters. A course which may be begun with any of the three quarters, giving a general survey of the field of botany, and reviewing the development of the plant kingdom. Field work in the spring quarter. Mr. Kirkwood, Mr. Graff.
12. **Elementary Plant Structures and Physiology.** 1 Q. Autumn. 3 cr. The study of plants from the standpoint of the formation, movement, and storage of foods and their various products. Primarily for students in the School of Pharmacy. Mr. Graff.
13. **Plant Genetics.** 1 Q. Autumn. 3 cr. 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, DeVries, and others, and a study of the application of genetics to the improvement of varieties. Mr. Graff.
14. **Economic Botany.** 1 Q. Autumn. 5 cr. A study of plants from the standpoint of economic products; the origin and growth of textile fibres, foods, gums, resins, oils and other products. Mr. Kirkwood.
15. **History of Botany.** 1 Q. Winter. 3 cr. Lectures on the development of botanical science from the early times to the present, tracing its beginning, growth and the origin of its several subsiences. Mr. Graff.
17. **The Teaching of Botany.** 1 Q. Winter. 3 cr. Lectures and discussions for those preparing to teach the subject. Among these will be included methods of presentation, the preparation of simple

experiments and apparatus for the class room, and the collection and preservation of plant materials for illustration and study. This course, together with the similar courses offered in Geology and Zoology may be advantageously taken as a year's course in the teaching of the natural sciences. Mr. Graff.

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

**22. Plant Physiology.** 1 Q. Spring. 5 cr. Prerequisite, Botany 11. An experimental study of living plants. Special attention is devoted to the relations of plants to soil, light, air, etc., and their reactions to various influences which affect them in nature. Mr. Kirkwood.

**25. Rural Botany.** 1 Q. Winter. 4 cr. Repeated in the summer quarter. Deals with the botanical aspects of agriculture; plant growth, propagation, relation to the soil, source and historic development of our economic products. A course for those who expect to teach agriculture in the schools of the state. Mr. Graff.

**31. Forest Pathology.** 1 Q. Spring. 5 cr. Prerequisite, Botany 11. A study of the agencies of disease and decay of trees and structural timbers. Lectures, laboratory, and field work. Mr. Graff.

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

**F1. Forest Botany.** 1 Q. Winter. 2 cr. (for entrance units only). Botany of forest plants for short course students in the Ranger School. Mr. Steward.

**F2. Range Plants.** 1 Q. Winter. 2 cr. (for entrance units only). A study of the grazing and poisonous plants of the range for short course students of the Ranger School. Mr. Steward.

**V1. Vocational Botany.** 2 or 3 Q. Autumn, winter, spring, summer. 6 to 9 credits (for entrance units only). No credit given for less than two quarters. An elementary course covering the fundamentals of plant structure and physiology and the outlines of classification. Primarily for vocational students under the direction of the Federal Board, in cases where entrance preparation is insufficient to admit to regular courses. Mr. Steward.

#### For Undergraduates and Graduates

**141ab. Comparative Morphology.** 2 Q. Winter, spring. 5 cr. each quarter. Prerequisite, Botany 11. Devoted especially to the study of



life histories of typical plants of the larger natural groups. Mr. Kirkwood.

**151. Ecology.** 1 Q. Autumn. 5 cr. Prerequisite, Botany 11 and 12. The relation of vegetation to soil, climate, etc., and the biological relations of the principal species of given areas. Mr. Kirkwood.

**161. Systematic Botany.** Given in any quarter of the year separately or continuously. Credit variable. Prerequisite, Botany 11. Classification of the flowering plants, especially of Montana. Field trips in season are an important part of the work. Instruction also in the methods of collecting, preserving, and mounting plants. Mr. Kirkwood, Mr. Graff.

**165. Systematic Mycology.** 1 Q. Autumn. 5 cr. Prerequisite, Botany 11. A study of the classification, relationships, and habits of the fungi. Lectures, laboratory and field work. Mr. Graff.

**166. Systematic Mycology.** 1 Q. Spring. 5 cr. Prerequisite, Botany 11. A study of the classification, relationships, and habits of the algae. Lectures, laboratory, and field work. Mr. Graff.

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

#### For Graduates

**201. Research.** Any quarter. Credits variable. Work on selected problems to meet the individual needs and requirements. Exceptional opportunity is offered by the location of the University for work on innumerable problems in Ecology, Morphology, Mycology and Systematic Botany. Mr. Kirkwood, Mr. Graff.

## CHEMISTRY

PROFESSORS, W. G. BATEMAN (on leave), R. H. JESSE, JR. (Chairman). ASSISTANT PROFESSOR, J. W. HOWARD. INSTRUCTOR, H. C. UREY.

Students who do major work in this department are required to have a minimum of 54 credits in Chemistry, which must include: General Chemistry, 12 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.

When an individual elects simultaneously two or more courses in Chemistry, he must pay in full for the course with the highest fee and deposit, but only one-half the fee and one-half the deposit for the other courses.

### 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	---	---
Algebra.....	---	5	---
Analytic Geometry.....	---	---	5
Physical Education.....	1	1	1
Military Science.....	1	1	1
College Education.....	1	---	---
	18	17	17

#### SOPHOMORE YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Chemistry 101.....	5	5	---
Chemistry 15.....	5	5	---
(Elective may be substituted for 15a if student has taken Chem. 13.)			
Chemistry 17.....	---	---	5
English 11b or Language.....	4-5	4-5	4-5
Physical Education.....	1	1	1
Military Science.....	1	1	1
Elective.....	---	---	2-5
	16-17	16-17	13-17

#### JUNIOR YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Chemistry 113.....	1	1	1
Chemistry 109.....	---	5	5
History or Economics, or Philosophy or Literature.....	4-5	4-5	4-5
Calculus.....	5	5	---

Elective (suggested list):			
Chemistry 111 .....	3	....	2-3
Chemistry 104 .....	3	....	....
Mineralogy .....	5	....	5
Chemistry 108 .....	....	....	5
Chemistry 103 .....	....	....	5
Advanced Calculus .....	....	....	5
Bacteriology .....	....	....	5
Any unfulfilled restricted elective.	....	....	....
	15-16	15-16	13-16

### SENIOR YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Chemistry 113 .....	1	1	....
Chemistry 106 .....	5	5	....
Physics (College) .....	....	5	5
Philosophy or Literature, or History or Economics .....	4-5	....	....
Elective .....	5	5	11
Suggested List: Chemistry 103, Chemistry 107, Chemistry 108, Chemistry 200, Ad- vanced 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. Mr. Jesse, Mr. Urey, and three assistants.

**13. Inorganic Chemistry and Qualitative Analysis.** 3 Q. Autumn, winter, spring. Continuous. 15 cr. Prerequisite, one year 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. 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. Autumn. Spring. 5 cr. Prerequisite, Chemistry 13 or 15a. Introduction to quantitative gravimetric and volumetric methods. Mr. Jesse.

**18. Fire Assaying.** 1 Q. Spring. 3 cr. Prerequisite, Chemistry 15a. Sampling and grinding of ores; fire assay for gold, silver, and lead. Mr. Jesse.

**19. Organic Chemistry.** 1 Q. Winter. 5 cr. Prerequisite, Chem-

istry 11. 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. 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 reactions of organic chemistry. Mr. Howard.

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

**104. Chemistry and Analysis of Foods.** 1 Q. Autumn. 3 cr. Prerequisite, Chemistry 17 and 19. Chemical aspects of foods; their manufacture, value, preservation and adulteration; analysis and testing of food stuffs for quality and purity. Mr. Howard.

**105. Textile Chemistry.** 1 Q. Spring. 3 cr. Prerequisite, Chemistry 19. Microscopic study of textile fibers; chemical analysis of fabrics; dyeing and laundering. Mr. Bateman.

**106. Physical Chemistry.** 2 Q. Autumn, winter. Continuous. 10 cr. Prerequisite, Chemistry 17, 101, 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 11 and 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, Mr. Urey.

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

**109ab. Industrial Chemistry.** 2 Q. Winter, spring. 5 cr. each quarter. Prerequisite, Chemistry 17 and 101. The chemistry of industrial and engineering materials and the discussion of technical chemical processes. Mr. Howard, Mr. Urey.

**111. Technical Analysis.** 1 Q. Autumn. Winter. Spring. 2 to 4 cr. Analysis of various materials of commercial importance. The work is varied according to the needs and tastes of the individual. Mr. Jesse or Mr. Urey.

**113abc. Journal Club.** 3 Q. Autumn, winter, spring. 1 cr. each quarter. Prerequisite, Chemistry 17, 101, and a reading knowledge of German and French. 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, Mr. Urey.

#### **For Graduates**

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

## ECONOMICS

PROFESSORS, SHIRLEY J. COON, J. H. UNDERWOOD (Chairman). ASSISTANT PROFESSOR, CLYDE E. BURGEE. INSTRUCTOR, ARTHUR D. JACOBSEN.

Students who do major work in Economics are required to have a minimum of 40 credits in this department.

These credits should include:

Sophomore year: 14, Principles of Economics.

Junior and Senior years: 101, Money and Banking; 133, Corporation Finance; 131, Labor Problems; 171, Property and Distribution; 173, Co-operative Movements; 175, Social Theories.

Senior year: 181, Economic Problems.

Collateral courses are recommended as follows:

Freshman year: Required science and language; Mathematics; Economics 11, Economic Resources and Industry; Economics 12, Economic History of England; Economics 13, Economic History of the United States.

Sophomore year: Required language completed; courses in history, 8 hours; Psychology 11.

Junior year: Political Science 17, American Government and Politics; Sociology 161, 162.

Senior year: Sociology 163.

### For Undergraduates

**11. Economic Resources and Industry.** 1 Q. Autumn. 4 cr. Descriptive studies in natural resources, industry and commerce of leading world powers. Mr. Burgee.

**12. Economic History of England.** 1 Q. Winter. 4 cr. The agricultural, industrial and social evolution of England since the Middle Ages. Mr. Burgee.

**13. Economic History of the United States.** 1 Q. Spring. 4 cr. The industrial development and financial policies of the United States from the colonial period to the present. Mr. Burgee.

**14ab. Principles of Economics.** 2 Q. Autumn, winter. Winter, spring. 4 cr. each quarter. Prerequisite, sophomore standing. Mr. Coon, Mr. Jacobsen.

### For Undergraduates and Graduates

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

**103. Exchange.** 1 Q. Spring. 3 cr. Prerequisite, Economics 14.

The institutions, rates and machinery of domestic and foreign exchange; international banking and foreign exchange problems. Mr. Burgee.

**111. Public Finance.** 1 Q. Winter. 3 cr. Prerequisite, Economics 14. The expenditures, revenues, credit and taxation policies of the body politic. Mr. Burgee.

**127. Railway Transportation.** 1 Q. Autumn. 4 cr. Prerequisite, Economics 14. 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. Jacobsen.

**129. Public Utilities.** 1 Q. Spring. 3 cr. Prerequisite, Economics 14. The essentials of a good franchise; problems of particular utilities; rate structure; methods of social control. Mr. Coon.

**131. Labor Problems.** 1 Q. Spring. 3 cr. Prerequisite, Economics 14. 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. Spring. 3 cr. Prerequisite, Economics 14. A history and analysis of economic theories, introducing the classical, historical, Austrian and socialistic schools. Mr. Burgee.

**155. Statistics.** 1 Q. Spring. 3 cr. Prerequisite, Economics 14. Statistical method with applications to business and sociological investigation.

**171. Property and Distribution.** 1 Q. Autumn. 3 cr. Prerequisite, Economics 14. 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. Underwood.

**173. Co-operative Movements.** 1 Q. Winter. 3 cr. Prerequisite, Economics 14. Contemporary organizations of labor, capital or the state for the co-operative production and distribution of goods; co-operation in credit. Mr. Underwood.

**175. Social Theories.** 1 Q. Spring. 3 cr. The examination of proposals for social reorganization in the light of economic and sociological science. Mr. Underwood.

**181ab. Economic and Social Problems.** 2 Q. Winter, spring. 3 cr. each quarter. Prerequisite, Economics 14 and the permission of the department. Researches in the application of economic science to contemporary political and social problems. Mr. Underwood.

**SOCIOLOGY****For Undergraduates and Graduates**

**161. Introduction to Sociology.** 1 Q. Autumn. 4 cr. Prerequisite, sophomore standing. Evolution of social institutions, family, state, church, etc. Mr. Underwood.

**162ab. Social Action and Social Order.** 2 Q. Winter, spring. 4 cr. each quarter. Prerequisite, sophomore standing. Social interests; social control; social activities. Mr. Underwood.

**163. Social Progress.** 1 Q. Autumn. 3 cr. Changes in society through war, struggle, invention, education, art. Mr. Underwood.

**164. Woman's Progress from Primitive to Modern Times.** 1 Q. Autumn. 4 cr. Prerequisite, Home Economics 13, 19, 120, 122. Historical study of woman, emphasizing her economic, social and political status from primitive to modern times. Miss Whitcomb.

**165abc. Philanthropy and Remedial Social Work.** 3 Q. Autumn, winter, spring. 3 or 4 cr. each quarter. Prerequisite, sophomore standing.

**167. Institutions of Social Service.** 1 Q. Autumn. 3 cr. The agencies of constructive social service by persons, corporations and other organizations.

**169. Immigration and Americanization.** 1 Q. Spring. 4 cr. Prerequisite, Economics 14 or Sociology 161. The history, character, and problems of immigration and emigration. Particular attention to the United States. Mr. Jacobsen.



## EDUCATION

PROFESSORS, FREEMAN DAUGHTERS, EDWARD O. SISSON (Chairman).  
ASSISTANT PROFESSOR, WALTER R. AMES.

Students desiring to prepare for educational administration as principals and superintendents should do major work in Education. Those desiring to become teachers of special subjects should do major work in departments offering such special subjects. Those who do major work in Education, in addition to the requirements for the University Certificate of Qualification to Teach, will be required to take courses 134, 150, 158, and 162.

The course in General Psychology or its equivalent is a prerequisite to all courses in Education.

Courses marked with an asterisk (\*) are required for the Certificate of Qualification to Teach.

**10. College Education.** 1 Q. Autumn. 1 cr. Required of all freshmen. Given by the President, the Deans of Men and Women and others.

### For Undergraduates and Graduates

**\*114. History of Education.** 1 Q. Autumn. 5 cr. Prerequisite, junior standing. Mr. Daughters.

**\*118. Principles of Education.** 1 Q. Winter. Summer. 3 cr. Prerequisite, junior standing. Mr. Sisson.

**\*119. Educational Psychology.** 1 Q. Spring. Summer. 3 cr. Prerequisite, junior standing. Mr. Ames.

**\*122. The High School.** 1 Q. Autumn. Summer. 5 cr. Prerequisite, senior standing. History, organization, management, and problems of the high school; the psychology of adolescence and the formation of character. Mr. Daughters.

**\*126. Observation and Teaching.** 2 Q. Winter, spring. 6 cr. on Certificate only. Students who give from one-third to one-half time for one quarter to this work under standardized conditions will receive five credits toward degree. Time to be arranged. Prerequisite, 21 credits in Education. Systematic observation of classroom work; weekly conferences; preparation of lesson plans and teaching under the supervision of the department of Education and critic teachers, carried on in co-operation with the Missoula County High School. Mr. Daughters, Mr. Ames.

**\*130. School Hygiene.** 1 Q. Winter. Summer. 3 cr. Prerequisite, junior standing. Hygienic aspects of school architecture and equipment, of instruction, and of the physical and mental life of the school child. Mr. Daughters.

**134. School Supervision.** 1 Q. Winter. Spring. Summer. 3 cr. Prerequisite, junior standing, Education 118 and 119. Instruction—its quality, technique, rating, and the improvement of teachers. Also discipline, classroom management, supervised study, and the measurement of educational products. Mr. Ames.

**150ab. Educational Administration.** 2 Q. Autumn, winter. 3 cr. each quarter. Primarily for graduate and advanced students. Mr. Daughters.

**154. Pedagogical Seminar.** 2 Q. Autumn, winter. Continuous. Credit and time to be arranged. Designed for graduate and advanced students of education. Topics will be selected for original investigation and due consideration will be given to current technical literature. Mr. Sisson, Mr. Daughters, Mr. Ames.

**158. Educational Sociology.** 1 Q. Spring. 3 cr. Prerequisite, junior standing. Elementary course dealing with the social aspects of education, the relation of the school and society, institutional adjustment and change, and the curriculum. Mr. Daughters.

**162. Problems in Elementary Education.** 1 Q. Winter. 5 cr. Open to all students in Education. The elementary school, its history, organization, management, curriculum and types of teaching; its special problems; the kindergarten and such other features as should be familiar to an administrator or supervisor. Mr. Daughters, Mr. Ames.

**166. History of American Education.** 1 Q. Autumn or spring. 5 cr. Open only to graduate or advanced students. Mr. Daughters.

#### For Graduates

**270. Educational Psychology.** 3 Q. Autumn, winter, spring. Continuous. 9 cr. Prerequisite, the courses in General Psychology and Education 119. This course is more advanced and will cover a wide range of literature, much of it technical, in the field of Educational Psychology. Mr. Ames.

**275. History of Education.** Advanced Course. 3 Q. Autumn, winter, spring. Continuous. 12 cr. Prerequisite, Education 114. The History of Education, with emphasis upon sources. It will supplement, and, at the same time, be far more thorough than Education 114. Mr. Daughters.

For details regarding the University Certificate of Qualification to Teach, see pages 44-45.

## ENGLISH

PROFESSORS, FRANCES CORBIN, HAROLD G. MERRIAM (Chairman). ASSISTANT PROFESSORS, SIDNEY HAYES COX, ELLEN M. GEYER, ANDERS ORBECK (on leave). INSTRUCTORS, ALEXANDER DEAN, EDMUND L. FREEMAN, ALICE W. MILLS. ASSISTANT, KATHRYN M. STICKNEY.

Students who do major work in this department are required to take a minimum of 45 hours in addition to 11ab. Courses 27ab, 57a or 57b, 30, 193abc and 199 are required of all major students. Course 27ab should be taken in the freshman or sophomore year. Those who desire also to secure a teacher's certificate must take in addition course 190.

These regulations apply to students of the class of 1922 and subsequent classes.

All students who major in English are advised to take two years of a foreign language and at least one course in each of the subjects history, psychology, and sociology. A course in the history and appreciation of art is also recommended.

Courses open to freshmen are numbered 10-29, to sophomores 30-50, to juniors and seniors 60-89, to seniors only 90-99, and to both undergraduates and graduates 100-200.

### Composition

**F. Ranger School English.** 1 Q. Winter. No cr. Practice in writing elementary English. Writing of letters and forestry reports.

**A. Sub-Freshman English.** 3 Q. Autumn, winter, spring. No cr. For students whose work is consistently below the standard of Freshman Composition. It is a course intended to aid such students. Attendance is voluntary, but once a student has entered the course he must attend classes until his standard of work justifies withdrawal. Attendance is in addition to attendance in Freshman Composition.

**11a. Freshman Composition.** 1 Q. Autumn. Winter. Spring. 5 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 is involved. The English staff.

**11b. Freshman Composition.** 1 Q. Autumn. Winter. Spring. 4 cr. Normally to be taken in the corresponding quarter of the sophomore year. During the quarter preceding election of English 11b, students are to submit to the English Department papers written for courses other than composition. If the English of these papers is good, if the student's English is satisfactory to the instructors of the courses he is taking, and if the student has made a grade of C in English 11a, he will be excused from the requirement of English 11b.

**17. Essays and Essay Writing.** 1 Q. Spring. 4 cr. Prerequisite, English 11a. Primarily for freshmen and sophomores; upperclassmen admitted only with the consent of the instructor. A study and practice course. Survey of the historical development of the familiar essay in England; study of contemporaneous essays; practice in essay writing. Mr. Freeman.

**30. Composition.** 1 Q. Autumn. Spring. 4 cr. Required of students who do major work in English and of those who desire the teacher's certificate in English. Open to freshmen who made a grade of A or B in 11a, to sophomores who made a grade of C in 11a, and to any student who has taken 11ab successfully. A study of the various forms of expository writing. On the average of two essays a week will be required. Mr. Orbeck, Mr. Freeman.

**31. Business Composition.** 1 Q. Spring. 4 cr. Prerequisite, sophomore standing. Students who have not taken English 11b must consult with the instructor before election. A course in composition designed to meet the special needs of students in professional courses. Mr. Orbeck.

**32. Story Writing.** 1 Q. Spring. 4 cr. Open to sophomores after consultation with the instructor. Practice in writing narrative and intensive study of representative short stories. Miss Geyer.

**33. Literary Composition.** 1 Q. Winter. 2 or 3 cr. Prerequisite, Freshman Composition with a grade of A or B and one other course in English; or the consent of the instructor. A course in writing either verse or prose with artistic standards in view. Much critical reading of great literature. Mr. Cox.

**70. Writing of Dramatic Sketches.** 1 Q. Spring. 3 cr. Prerequisite, English 41, 77. Given in 1922-'23, and in alternate years. Open to juniors and seniors, and to other students with the consent of the instructor. A study of dramatic technique and the principles of plotting, characterization, climax, dialogue, and scenario-making. The revising of a long drama and the writing of an original one act play. Mr. Dean.

**160abc. Creative Writing.** 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, any two of the courses English 17, 30, 32, 33, or 70. Practice in writing literary types, with instruction in literary conception and execution. Mr. Merriam.

### Public Speaking

**20a. Elementary Public Speaking.** 1 Q. Autumn. Spring. 3 cr. A course in extemporaneous speaking, placing equal emphasis on the matter and manner of one's talk. Text-study of how to construct a speech. Analysis of representative speeches, and weekly practice by members of the class. Mrs. Mills.

**20b. Public Speaking.** 1 Q. Winter. 3 cr. Prerequisite, English

20a or consent of the instructor. Advanced work in extemporaneous and prepared speeches, building on the work of English 20a. Mrs. Mills.

**21. Voice Training.** 1 Q. Spring. 2 cr. Correct breathing; exercises for strengthening diaphragm; study and practice of better pronunciation and enunciation. Tone production; exercises with special attention to placement and resonance. Modulations of voice; change of pitch, variety of inflections, quality of tone. Mrs. Mills.

**22. Interpretative Reading.** 1 Q. Spring. 2 cr. Co-ordination of mind, voice and body. Consideration of the problems which must be mastered by the vocal interpreter of the printed page: grouping, pausing, principality, subordination, transition, atmosphere, variety, melody, thought and emotional values. Special selections will be analyzed and each student assigned definite lessons for presentation before the class. The preparation of literary material for public utterance. Mrs. Mills.

**53a. Argumentation.** 1 Q. Autumn. 3 cr. English 20ab is recommended to students who look forward to election of this course. Critical study, with practice, in principles of argumentation and debate. Brief-drawing and argumentative composition, with study of rules of evidence, fallacies of argument, and debate tactics. Floor-work in the second half of the quarter. Mr. Freeman.

**53b. Practice Debate.** 1 Q. Winter. 2 cr. Prerequisite, English 53a. A floor-work course designed for debaters and law students. Debates held each class session. Textbooks used only for collateral reading. Mr. Freeman.

**54. Public Address.** 1 Q. Autumn. 3 cr. Prerequisite, English 20a or English 53a, or consent of the instructor. A study of advanced principles of public discussion, analysis of famous speeches and orations, and particular attention to finished composition and delivery of speeches.

**40. Story Telling.** 1 Q. Spring. 2 cr. Study and practice of the effective telling of stories to children. Story telling as a community force. Mrs. Mills.

**41. Dramatic Presentation.** 1 Q. Winter. 3 cr. Prerequisite, English 77, or consent of the instructor. Offered in 1922-23, and in alternate years. Study of the staging of plays. Mr. Dean.

**61. Pageantry.** 1 Q. Winter. 3 cr. Before electing this course a student should have taken English 41 or English 70, or both. Offered in 1921-22, and in alternate years. Principles and practice of pageantry; studies of the various aspects—composition, stage business, settings, and lighting. A practical course for teachers and community leaders. Mr. Dean.

#### Literature and Language

**26. The English Bible.** 1 Q. Autumn. 4 cr. Literary types; qualities of thought, feeling, and style; careful study of three selected books. Miss Corbin.

**27ab. General Literature.** 2 Q. Autumn, winter. Winter, spring. 4 cr. each quarter. This course should be taken in the freshman or sophomore year. Study of the aims and values of literature, and of the various literary types. Each type is studied in its nature and growth. The course is fundamental to later courses in special periods and particular forms. Mr. Merriam, Mr. Cox.

**29ab. American Literature.** 2 Q. Autumn, winter. 5 cr. each quarter. The study of American thought and feeling as reflected in our literature. Special attention is paid to the greater writers of the nineteenth century, as Emerson, Hawthorne, Poe, and Whitman. Miss Corbin.

**56. Social Thought of Literary Men.** 1 Q. Winter. 4 cr. Prerequisite, sophomore standing. 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. A chronological study of the plays of Shakespeare. Mr. Dean.

**57b. Shakespeare.** 1 Q. Winter. 5 cr. An intensive study of three or four plays. Mr. Dean.

**73. Spirit of the Renaissance in English Literature.** 1 Q. Winter. 4 cr. Prerequisite, any course in English literature. Offered in 1922-23 and in alternate years. Miss Geyer.

**74. Literary Tendencies in the Seventeenth Century.** 1 Q. Spring. 4 cr. Prerequisite, any course in English literature. Offered in 1922-23 and in alternate years. Mr. Freeman.

**75. English Novelists.** 1 Q. Autumn. 4 cr. Students who elect this course should have taken English 27ab. Offered in 1922-23, and in alternate years. Mr. Cox.

**76. Masters of Fiction.** 1 Q. Winter. 4 cr. English 27ab should precede this course. Offered in 1922-23, and in alternate years. Mr. Cox.

**77. Modern Drama.** 1 Q. Autumn. 4 cr. Prerequisite, English 27ab. Offered in 1922-23, and in alternate years. Mr. Dean.

**78ab. Contemporary Literature.** 2 Q. Winter, spring. 4 cr. each quarter. Study of the social, philosophic, and artistic aspects of the literature of the last fifty years. Mr. Orbeck, Mr. Merriam.

**80. Literary Thought of the Eighteenth Century.** 1 Q. Autumn. 4 cr. Prerequisite, any course in English literature. Offered in 1921-22, and in alternate years. Study, principally of the early eighteenth century verse and prose writers; beginnings of the romantic movement. Mr. Freeman.

**81. Chief Romantic Poets.** 1 Q. Winter. 4 cr. Prerequisite, any sophomore or junior course in English literature. Offered in 1921-22, and in alternate years. Study of the poetry of Shelley, Keats, Byron, and others with emphasis on the poetry of Wordsworth. Miss Corbin.

**82. Tennyson and Browning.** 1 Q. Spring. 4 cr. Prerequisite, any sophomore or junior course in English literature. Offered in 1921-22, and in alternate years. Miss Corbin.

**87. History of the English Language.** 1 Q. Autumn. 3 cr. Prerequisite, four quarters of English literature, or consent of the instructor. Offered in 1922-23, and in alternate years. Mr. Orbeck.

**164. Chaucer.** 1 Q. Spring. 4 cr. Prerequisite, any sophomore or junior course in English literature. Offered in 1922-23, and in alternate years. Mr. Cox.

**165. Middle English Literature.** 1 Q. Autumn. 4 cr. Prerequisite, any sophomore course in literature. Offered in 1922-23, and in alternate years. Miss Geyer.

**178. Tragedy.** 1 Q. Autumn. 4 cr. Prerequisite, English 27ab, and any other course in drama; or consent of instructor. Offered in 1921-22, and in alternate years. Study of the nature of tragedy; reading of great tragedies in the world's literature. Mr. Merriam.

**179. Comedy.** 1 Q. Winter. 4 cr. Prerequisite, English 27ab, 178, and any other course in drama; or consent of instructor. Offered in 1921-22, and in alternate years. Study of the nature of comedy; reading of great comedies in the world's literature. Mr. Merriam.

**190. Teaching English.** 1 Q. Spring. 4 cr. Methods of teaching literature and composition in the high school. The instruction in course of study will refer specifically to Montana. Miss Geyer.

**192. Studies in Major Writers.** 1 Q. Winter. 3 cr. May be elected only by seniors, with the consent of the instructor. One writer is studied intensively. The subject and the instructor change from year to year. For 1919-20, Byron, Mr. Orbeck. For 1920-21, Wordsworth, Miss Corbin. For 1921-22, George Meredith, Miss Geyer.

**193. Literary Currents of the Nineteenth Century.** 3 Q. Autumn, winter, spring. Continuous. 6 cr. Open to seniors only. Required of all English majors. The course aims at understanding of the thought and feeling of the nineteenth century, especially as a background to the life and literature of our own day. Mr. Orbeck.

**194. Influence of the Classics on English Literature.** 1 Q. Autumn. 3 cr. Offered in 1921-22, and in alternate years.

**199. Seminar.** 1 Q. Spring. 2 cr. Required of English majors. Instruction and practice in methods of literary study. Mr. Merriam.

## FINE ARTS

ASSISTANT PROFESSOR, F. D. SCHWALM.

Students who do major work in this department are required to complete 45 credits, including the following courses: History of Art, Elementary Drawing, Advertising, Design, Teacher's Course, Artistic Anatomy.

**11. History and Appreciation of Art.** 1 Q. Spring. 4 cr. A general survey of the development of painting, sculpture and architecture from the beginning to the present time. The course is intended to develop the understanding and appreciation of art.

**17ab. Advertising.** 2 Q. Autumn, winter. 2 cr. each quarter. Presenting the theory and methods of applying art in a practical way; originating posters, folders and booklets for commercial purposes; explaining the technical problems of photographic plate work of color and line for production. The work is closely associated with the School of Journalism. Mr. Schwalm.

**19. Artistic Anatomy.** 1 Q. Winter. Spring. 6 cr. Prerequisite, courses 21-22. For those who propose to take advanced work in art, such as illustration, mural decoration and painting of figures. Given every other year. Mr. Schwalm.

**21abc. Elementary Drawing.** 3 Q. Autumn, winter, spring. 1, 2, 3 or 5 cr. each quarter. Study of charcoal of cast and still life; outdoor sketching and work from the model; advertising; design. Students who have credit for this course may not receive credit for course 17.

**23abc. Advanced Drawing and Painting.** 3 Q. Autumn, winter, spring. 2, 3, or 5 cr. each quarter. Prerequisite, course 21. Process and principles of drawing and painting in oils and water color; work from model and outdoor sketching. Mr. Schwalm.

**25. Illustration.** 1 Q. Spring. 2 cr. Prerequisite, course 21. Students do practical illustrations for books, newspapers and magazines; special attention will be given to pictorial composition and methods of reproduction.

**27ab. Cartooning.** 2 Q. Winter, spring. 2 cr. Prerequisite, course 23. A course in practical training; work is identical with that done by artists on a daily newspaper. The work is closely associated with the School of Journalism. Mr. Schwalm.

**30ab. Teacher's Course.** 2 Q. Winter, summer. 5 cr. Primarily intended for students who wish to teach or supervise drawing in public schools. The course takes up construction work, design, color, clay modeling, object and nature drawing and methods as applied in public school art work.

**31ab. Design.** 2 Q. Autumn, spring. Summer. 2 cr. each quarter. A study of the natural flowers with theory and practice in the principle of artistic arrangement. Course is arranged so that the designs may be applied in handicraft courses. Mr. Schwalm.



## GEOLOGY

PROFESSOR, J. P. ROWE. ASSISTANT PROFESSOR, ARTHUR C. BEVAN.

Students who do major work in this department must complete Geology 11, 21, 24, and other courses to receive 45 credits in the department; they should also complete Biology 11, Botany 11, Chemistry 11, Physics 11, and at least two years' work in Modern Languages. Those who major in Geology should consult the head of the department not later than the sophomore year in order to arrange a sequence of courses with reference to the aim of the individual student. Major students should take Geology 11 and 24 during the freshman or sophomore years, as a basis for other work in the department.

The course in General Geology satisfies the science requirement for graduation. Geology 16 does not apply upon this requirement nor upon the major work.

### For Undergraduates

#### Geology:

**11. General Geology.** 2 Q. Autumn, winter. Winter, spring. Continuous. 10 cr. Limited credit the first quarter is given to those who have had Geology 12, 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 devoted to the origin and evolution of the earth and its former and present life. Mr. Rowe, Mr. Bevan.

**12. Teacher's Course in Physiography.** 1 Q. Autumn. 5 cr. Prerequisite, sophomore standing. Those who have had Geology 11 will receive only 3 credits. Similar to 15 but with emphasis upon the methods and materials for teaching physiography in the secondary schools. This course, together with the similar courses offered in Biology and Botany, may be advantageously taken as a year's course in the teaching of the natural sciences. Mr. Bevan.

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

**15. Physiography.** 1 Q. Spring. Summer. 5 cr. Students who have had Geology 11 will receive only 3 credits. A study of the surface features of the earth, their origin, evolution, and influence upon human activities, and the elements of weather and climate. Mr. Bevan.

**16. Geography and Geology of Montana.** 1 Q. Repeated each

quarter. 3 cr. The discussion of the principal geographic features of the state, and the occurrence and utilization of its mineral and other natural resources. Mr. Rowe.

**21. Geologic Processes.** 1 Q. Autumn. 5 cr. Prerequisite, Geology 11 or 15, and junior standing or permission of the instructor. A detailed and broad study of the principles of physical and dynamic geology for those who wish to obtain a more intimate knowledge of geologic processes than is afforded by Geology 11. Mr. Bevan.

**22. Historical Geology.** 2 Q. Winter, spring. Continuous. 10 cr. Prerequisite, Geology 21. A close study of the origin of the earth and its history as read in the record of the rocks, with the emphasis upon North America, and more especially the western part of it; the evolution of the principal forms of life, both plant and animal, with their geologic occurrence in the United States. The first quarter takes the study to the close of the Paleozoic era, and the second quarter continues it to the present time. Mr. Bevan.

#### **Mineralogy and Economic Geology:**

Students who do major work in Mineralogy or Economic Geology should take Chemistry 13, 15, and 17, Mathematics 11, 12 and 13, and two years of Modern Languages.

**24. Physical Mineralogy.** 1 Q. Autumn. Spring. 5 cr. Prerequisite, General Chemistry. The elements of crystallography and the classification and identification, by means of physical characters and simple chemical tests, of about 150 common minerals of geologic and economic importance. Mr. Rowe.

**25. Blowpipe Analysis.** 1 Q. Winter. 3 to 5 cr. Prerequisite, Geology 24. The determination of many of the principal ore-forming minerals by means of physical properties, blowpipe analysis and other chemical tests. Mr. Rowe.

**26. Petrology.** 1 Q. Autumn. 3 cr. A careful study of the common rock-forming minerals and the common rocks by means of their physical characters, their identification in the field, classification, origin, and structural features. Mr. Rowe, Mr. Bevan.

#### **For Undergraduates and Graduates**

**101. Economic Geology.** 1 Q. Spring. 5 cr. Prerequisite, Geology 11 and 24. A general study of the metallic and non-metallic mineral deposits of the United States, and especially of Montana; their nature, geologic occurrence, distribution, and use. Mr. Rowe.

**102. Petroleum Geology.** 1 Q. Spring. 3 cr. Prerequisite, Geology 11, 21, 22, 24, and 26. Primarily the application of geologic principles to the discovery of petroleum, with a close study of the features of the chief oil and gas fields of the United States. Mr. Rowe.

**103. Genesis of Ore Deposits.** 1 Q. Autumn. Winter. 4 to 6 cr. Prerequisite, Geology 11, 21, 24, and 26. A study of the ore deposits of North America with reference to the principles involved in their deposition, the geologic occurrence, and their distribution. Special emphasis is placed upon the ore deposits of the Northern Rocky Mountains. Mr. Rowe.

**104. Advanced Mineralogy.** 1 Q. Winter. Credit to be arranged. Prerequisite, Geology 24 and 25. A thorough study of mineral groups, such as the copper, gold, lead and zinc minerals. Also a study of their economic importance, origin and location. Mr. Rowe.

**105. Mining, Mineral, and Geological Law.** 1 Q. Winter. 3 cr. Prerequisite, Geology 11, 24, and 101 or 103. This course treats of the laws that apply to the location and development of ore deposits, petroleum and natural gas, stone, water. Mr. Rowe.

**111. Invertebrate Paleontology.** 2 Q. Winter, spring. Continuous. 10 cr. Prerequisite, Invertebrate Zoology and Geology 11. A systematic study of the evolution of the invertebrates through geologic time as shown by the fossil record, and the identification of fossils and fauna that determine the age of different formations. Mr. Bevan.

**128. History of Geology.** 1 Q. Spring. 3 cr. Prerequisite, Geology 11, 21, 22, 24, and 26. A reading course on the origin and growth of the leading doctrines of geology, and the lives of the leading workers in that science. Mr. Rowe.

**131. Petrography.** 1 Q. Autumn. 3 cr. Prerequisite, Physics 11, Geology 24, and preferably 26. The study of the elements of optical mineralogy and the identification with the polarizing microscope, of rock-forming minerals in thin sections. Mr. Bevan.

**132. Advanced Petrography.** 1 Q. Winter. Spring. 3 to 4 cr. Prerequisite, Geology 131. A study of the principal rock types by the application of the principles acquired in Geology 131, and a discussion of their origin and classification. Mr. Bevan.

**135. Field Methods.** 1 Q. Spring. 3 cr. Prerequisite, Geology 11, 21, 22, 24, and 26. 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. Bevan.

## HISTORY AND POLITICAL SCIENCE

PROFESSOR, PAUL C. PHILLIPS. ASSISTANT PROFESSOR, GLENN V. BURROUGHS.

Students who do major work in History and Political Science are required to offer 40 credit hours in the department. Majors may specialize in either American History, European History, or Political Science, but they are urged to obtain a broad knowledge of the whole field of history and politics. A reading knowledge of French is desirable and should be acquired as soon as possible. Majors are also required to have at least one course in the Principles of Economics.

Courses 11, 12, 13 and 14 are open to first year students, except that a student may not receive full credit for both the courses in Modern English History and Modern European History. Courses 17, 19, 20 and 21 are open to sophomores. The course in Constitutional History of England is offered primarily for the benefit of pre-legal students.

### For Undergraduates

**11a. Modern Europe (1450-1815).** 1 Q. Autumn. Winter. 5 cr. A study of the Renaissance: the intellectual and cultural ideas of the period, economic and social progress, the formation of modern European state systems, the French Revolution, the Napoleonic Empire, and the reorganization of Europe. Mr. Burroughs.

**11b. Modern Europe (1815-1922).** 1 Q. Winter. Spring. 5 cr. A study of the social and economic ideas of the nineteenth century; the industrial Revolution, Rise of Nationality, the conflict of imperialism and liberalism, the World War. Mr. Burroughs.

**12. Medieval Europe.** 1 Q. Autumn. 5 cr. The political, social, economic and institutional development of Europe from the barbarian invasions to the voyages of discovery. Mr. Burroughs.

**13a. English History to 1660.** 1 Q. Autumn. 5 cr. The political, social and economic history of England from the earliest time to the period of the Restoration. Mr. Burroughs.

**13b. English History (1660-1922).** 1 Q. Winter. 5 cr. Political, social, and economic development with especial attention to colonial and imperial organization. Mr. Burroughs.

**14. The North American Colonies (1492-1783).** 1 Q. Spring. 5 cr. A study of English, French, Spanish and Russian colonizing activities in North America with especial attention to the colonization of the west. Mr. Phillips.

**15. Ancient History.** 1 Q. Winter. 5 cr. Prerequisite, sophomore standing. Emphasis will be laid on cultural development and the social and political institutions that influence modern life.

**17. American Government and Politics.** 1 Q. Spring. Summer. 5 cr. Prerequisite, 8 hours of History and at least a high school course in American History. The first part of the course will be devoted to the organization and functions of the federal government, the second to those of the state. A brief survey will be made of problems of county and municipal government. Mr. Phillips.

**19. Elements of Political Science.** 1 Q. Autumn. 4 cr. Prerequisite, sophomore standing. An introductory study of the origin and nature of the state, sovereignty, forms of government, constitution, citizenship, the distribution of powers, suffrage.

**20. European Governments.** 1 Q. Winter. 4 cr. Prerequisite, sophomore standing. The political systems of England, France, Italy, Switzerland, and the new governments of Europe; constitutional beginnings, organization, methods of legislation and administration, justice.

**21a. United States History (1783-1865).** 1 Q. Autumn. 4 cr. Prerequisite, sophomore standing. Particular attention is given to the organization of the federal government and its underlying principles, the development of national feelings, the growth of democracy, the influence of the west, the slavery controversy, secession and reconstruction. Mr. Phillips.

**21b. Contemporary United States History (1865-1922).** 1 Q. Winter. 4 cr. Prerequisite, sophomore standing. A survey of the United States at the close of reconstruction, with emphasis on the growth of the West. The influence of big business, the reaction of reform movements, particularly the Bryan democracy, the Roosevelt policies and the early radicalism of the Wilson administration; the World War and the new international problems that confront the United States. Mr. Phillips.

**22. Montana History and Government.** 1 Q. Spring. 3 cr. 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.

**27a. The Constitutional History of England.** 1 Q. Autumn. 3 cr. Prerequisite, junior standing or, with permission, eight hours in the department. 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.

**27b. The Constitutional History of England.** 1 Q. Winter. 3 cr. Prerequisite, History 27a. 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.

**27c. The Constitutional History of England.** 1 Q. Spring. 3 cr. Prerequisite, 27b. 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.

#### **For Advanced Undergraduates and Graduates**

**101. The Teaching of History.** 1 Q. Winter. 2 cr. Prerequisite, 15 hours of history, and junior standing. A course in special method for teachers of history. Mr. Phillips.

**102. History of the Northwest.** 1 Q. Autumn. 3 cr. 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. History of Russia.** 1 Q. Spring. 4 cr. Prerequisite, History 11 or 13 and junior standing. Economic, social, governmental, and political evolution of Russia. Intellectual influence in 19th century. Revolution and its antecedents. Bolshevism. Foreign relations of recent years. Mr. Burroughs.

**104. Seminar in American History.** Credit to be arranged. Prerequisite, senior standing. The work will be purely individual and adapted to suit the needs of the student. Mr. Phillips.

**105. Seminar in European History.** Credit to be arranged. Prerequisite, senior standing. Problems for investigations by the individual student in the field of Continental European or of English History. Mr. Burroughs.

**106. International Public Law.** 1 Q. Winter. 4 cr. Prerequisite, 15 hours in History or Political Science. A study of the laws of nations in relation to peace, war, and neutrality. Mr. Phillips.

**107. International Relations.** 1 Q. Spring. 4 cr. Prerequisite, 15 hours history 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. Mr. Burroughs.

## HOME ECONOMICS

PROFESSOR, EMELINE S. WHITCOMB. ASSISTANT PROFESSORS, INEZ BOZORTH (Director of Craig Hall), KATHERINE DAUM. INSTRUCTOR, LILIAN BAKER.

The aim of the department is threefold: 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; to liberalize every woman's education by giving her an appreciation of her greatest profession, that of home making. For this last named purpose students may elect courses 12, 13abc, 14, 16, 18, 19, 124, 32, 117, 122, 123.

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

For teachers: 11, 13, 16, 18, 19, 21, 117, 120, 121, 122, 123, 124, 139, 141.

For institutional majors: 13, 16, 18, 19, 117, 124, 133, 135, 139. Course 13c is strongly advised. In addition a major student in Home Economics must take Chemistry 11, 19, 103, 105, Botany 14, and Sociology 164.

The following sequence of courses in Home Economics is advised: 11, 13, 16, 21, 18, 117, 19, 120, 122, 121, 124, 141, 139, 123.

### CURRICULUM

#### FIRST YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
General Chemistry (11).....	5	5	5
or			
Inorganic Chemistry and Qualitative Analysis (13).....	5	5	5
College Education (10).....	1	---	---
Physical Education (11abc).....	1	1	1
Foods (13).....	---	5	5
English (11a).....	---	---	5
Economic Botany (14).....	5	---	---
Modern Language.....	5	5	---

#### SECOND YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Physiology of the Human Body (24).....	4	---	---
History and Appreciation of Art (11).....	4	---	---
Household Physics (12).....	4	---	---
Elementary Design (16).....	---	4	---
Physical Education (12abc).....	1	1	1
Organic Chemistry (19).....	---	5	---
Foods (21).....	---	3	3
Clothing (18).....	---	---	3
Physiological Chemistry (103).....	---	---	5
Textile Chemistry (105).....	---	---	3
English (11b).....	---	4	4
Principles of Economics or History.....	4	4	---

## THIRD YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
General Bacteriology (19).....	4	---	---
General Psychology (11) .....	4	4	---
Textiles (117) .....	4	---	---
Clothing (120) .....	---	4	---
The House (19) .....	---	5	---
Principles of Education (118).....	---	3	---
Educational Psychology (119).....	---	---	3
Advanced Dietetics (122) .....	5	---	---
Elective .....	---	---	9
Foods (121) .....	---	---	4

## FOURTH YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
The High School (122) .....	5	---	---
Home Administration (124) .....	---	5	---
Health Education (123).....	---	---	4
Sociology (or elective) .....	4	4	---
Education (126) .....	---	3	3
School Hygiene (130) .....	---	3	---
Readings in Nutrition (139) .....	---	---	4
Electives			
Woman's Progress from Primitive to Mod- ern Times, Sociology (164).....	4	---	---
Clothing Economics (141) .....	---	---	4

## CURRICULUM FOR INSTITUTIONAL MANAGEMENT

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

## THIRD YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Elective .....	---	---	5
General Psychology (11) .....	4	4	---
General Bacteriology (19) .....	4	---	---
Textiles (117) .....	4	---	---
Protozoology (16) .....	---	4	---
The House (19) .....	---	5	---
Dietetics (122) .....	4-5	---	---
English .....	---	---	4
Commercial Law (141).....	---	---	3
Marketing (157) .....	---	5	---
Foods (121) .....	---	---	4

## FOURTH YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Sociology .....	4	4	---
Health Education (123) .....	---	---	4
Home Administration (124) .....	---	5	---
Elective .....	3	2	3
Institutional Management (133) .....	---	5	5
Readings in Nutrition (139) .....	---	---	4
Institutional Cookery (135).....	5	---	---
Woman's Progress from Primitive to Modern Times, (Sociology 164) .....	4	---	---

## Foods

11. Survey of Home Economics. 1 Q. Autumn. 1 cr. Open to all students. A course setting forth the aims, subject matter and opportunities in the field of Home Economics.



**13. 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 composition, functions, and place in the diet.

**13c. Foods.** 1 Q. Summer. 3 cr. A study of the principles of preservation, including home and commercial methods, applied to all perishable foods.

**15. General Food Study.** 1 Q. Autumn. Winter. 3 cr. Not open to major students. This course deals with the general principles underlying food preparation.

**21. Foods.** 1 Q. Winter. 3 cr. Prerequisite, Chemistry 11, Household Physics, Foods 13. Special food problems are assigned for individual investigation.

**22. Elementary Dietetics.** 1 Q. Spring. 4 cr. Not open to those who do major work in this department. The course deals with the fundamental principles of adequate nutrition sufficiently elementary that no prerequisites are required.

**21. Foods.** 1 Q. Spring. 4 cr. Special emphasis is placed upon the effect that varying physical and chemical factors have in food preparation.

**22. Advanced Dietetics.** 1 Q. Autumn. Summer. 5 cr. Prerequisite, Foods 13, Chemistry 19 and 103. A course given to the scientific study of foods, as they relate to the dietary standards of families under various conditions of health and environment, with special emphasis placed on the proper feeding of children. A study of digestion and metabolism.

**23. Health Education.** 1 Q. Spring. Summer. 4 cr. Prerequisite, Dietetics. Includes symptoms of disease, prophylactics, first aid, nursing and feeding of the sick in the home.

**29. Food Demonstration.** 1 Q. Spring. 2 cr. Prerequisite, junior standing. Includes choice of topics, materials and methods of presentation to the public.

**35. Institutional Cookery.** 1 Q. Autumn. 5 cr. The application of scientific, economic and sociological principles to the feeding of large numbers of people.

**37. Food Seminar for High School Teachers.** Summer. 3 cr. Includes a survey of the food situation of the world. The supplies' influence upon food study courses; methods of production, manufacture, preservation, distribution, economic uses, nutritive value and the influence of this knowledge upon every day living.

**39. Readings in Nutrition.** 1 Q. Spring. 4 cr. Prerequisite, Home Economics 122-123, Chemistry 103.

### Clothing

**12. Clothing.** 1 Q. Autumn. 3 cr. Required of all those who do major work in this department who have not had high school sewing. A study of the development of textile industries and the social and economic phases of the manufacture of fabrics and the selection of materials.

**14. Clothing.** 1 Q. Spring. 3 cr. No prerequisite. Given for housewives and students wishing to acquire ability in clothing construction. The value of the different textile fibers and their application to making dresses.

**16. Elementary Design.** 1 Q. Winter. 4 cr. Prerequisite, History and Appreciation of Art 11. Composition and color studied through the use of masterpieces and the application of art principles to fabrics and house furnishings.

**18. Clothing.** 1 Q. Spring. 3 cr. Prerequisite, Elementary Design 16. Application of economics, physiology and art to clothing.

**32. Millinery.** 1 Q. Autumn. Summer. 3 cr. This course will include both design and composition; a study is made of materials, frames and trimming. Emphasis is laid on the application of art principles to meet individual requirements.

**117. Textiles.** 1 Q. Autumn. Summer. 4 cr. Comprising a study of fibers, their manufacture and use; physical and chemical tests to aid in selection of clothing.

**120. Clothing.** 1 Q. Winter. 4 cr. Prerequisite, Home Economics 18, 117. Design in costume; historic examples; essentials of modern costume; aesthetic and economic; original designs.

**141. Clothing Economics.** 1 Q. Spring. 4 cr. Prerequisite, Home Economics 120. The economics of the textiles and clothing industry. Relation of clothing expenditure to the income and the standard of living.

**128. Clothing Demonstration.** 1 Q. Spring. Summer. 2 cr. Preparation of textile material and clothing for lecture demonstration and exhibit work.

**143. Clothing Seminar for High School Teachers.** Summer. 3 cr. Including a survey of the clothing field and the problems of modern industry, from the economic and sociological aspects; and how the necessary standardization, legislation and conservation affect clothing courses.

### Shelter

**19. The House.** 1 Q. Winter. 5 cr. The aesthetic, economic and hygienic essentials in house planning, sanitation and decoration, and municipal problems.

**124. Home Administration.** 1 Q. Winter. 5 cr. Prerequisite, Home Economics 19, 122, 123, Sociology 164. Aim is to define the profession of home-making, emphasizing woman as the chief executive officer, financier, and educator.

**133. Institutional Management.** 2 Q. Winter, spring. Continuous. 10 cr. Prerequisite, 19, 122, 123, 124. Includes organization, management and equipment of special types of institutions, such as dormitories, hospitals, tea rooms, cafeterias, hotel dining rooms.

Note: See also Department of Economics, Sociology 164, Woman's Progress from Primitive to Modern Times.

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## LATIN AND GREEK

It is the policy of the University to reinstate this department for the coming year, 1921-22. Fuller announcement will be made later.

## LIBRARY ECONOMY

ASSISTANT PROFESSOR, GERTRUDE BUCKHOUS (on leave).

**1. 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 gazettes, note-taking, book-binding and care of books, government publications and reference books on English and American literature, history and science. One lecture or recitation a week. One afternoon laboratory work. Miss Buckhous.

Students who do major work in this department must meet these requirements: examinations or two years of college work; satisfactory reports on maturity of mind and earnestness of purpose; ability to use a typewriter and to write a good library hand. College courses desired; French and German, one year; History, Literature and English (as much advanced work as possible); general courses in physics, chemistry, geology, biology, psychology, economics and sociology, education, modern languages, and art.

**12. Reference.** 1 Q. Autumn. 3 cr. Miss Buckhous.

**15. Library Economy.** 1 Q. Winter. 3 cr. Miss Buckhous.

**13. Reference.** 1 Q. Spring. 3 cr. Prerequisite, 12. Miss Buckhous.

**14. Classification.** 1 Q. Winter. 2 cr.

**19. Classification and Cataloguing.** 1 Q. Spring. 2 cr. Prerequisite, 14.

**17. Reference.** 1 Q. Autumn. 3 cr. Open to seniors. Prerequisite, 12 and 13. Miss Buckhous.

**21. Book Selection.** 1 Q. Winter. 2 cr. Open to seniors.

**16. Classification and Cataloguing.** 1 Q. Winter. 3 cr. Open to seniors. Prerequisites, 14 and 19.

**18. Library Administration.** 1 Q. Spring. 2 cr. Open to seniors. Includes County Library Administration and County Library Law. Miss Buckhous.

**20. Public Documents.** 1 Q. Winter. 3 cr. Open to seniors. Miss Buckhous.

**22. Book Selection.** 1 Q. Winter. 1 cr. Open to seniors.

**24. Trade Bibliography and Publishing Houses.** 1 Q. Autumn. 1 cr. Open to seniors.

**26. Field Practice.** 2 Q. Spring, summer. Continuous. 12 cr. Open to seniors. Miss Buckhous.

**28. Special Lectures.** 1 Q. Spring. 2 cr. Open to seniors. Newspaper publicity, children's books and work with children, story telling, work with schools, library instruction in high schools.

## MATHEMATICS

PROFESSOR, N. J. LENNES. ASSOCIATE PROFESSOR, A. S. MERRILL.  
ASSISTANT PROFESSOR, E. F. A. CAREY.

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 in charge of the courses which the student proposes to select. Courses 10, 11 and A 11 may not be counted as part of the requirement 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. The important new books are being added. It is usually possible to add books as the need for them arises.

### For Undergraduates

**10. Intermediate Algebra.** 1 Q. 5 cr. Given every quarter. Prerequisite, 1 unit of entrance 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. Carey, Mr. Merrill.

**11. Solid Geometry.** 1 Q. Winter. Summer. 5 cr. Prerequisite, Mathematics 10. Mr. Lennes, Mr. Carey, Mr. Merrill.

**12. College Algebra.** 1 Q. Autumn. Winter. 5 cr. Prerequisite, course 10 or  $1\frac{1}{2}$  units of entrance Algebra. (The advanced part of the entrance Algebra should be taken not earlier than the third year of the high school course.)

**13. Plane Trigonometry.** 1 Q. Every quarter. 5 cr. Prerequisite, Mathematics 10 or equivalent. Mr. Lennes, Mr. Carey, Mr. Merrill.

**14. Spherical Trigonometry.** 1 Q. Autumn. 5 cr. Prerequisite, Mathematics 13 or equivalent. Mr. Lennes, Mr. Carey, Mr. Merrill.

**15a. Forestry Computation.** 1 Q. Winter. This course carries no University credit. Mr. Lennes.

**15b. Trigonometry for Forest Rangers.** 1 Q. Winter 3 cr. Mr. Merrill.

**20. Mathematics of Investments.** 1 Q. Spring. 5 cr. Prerequisite,

Mathematics 10, recommended Mathematics 12. Mr. Lennes, Mr. Carey, Mr. Merrill.

**21. Plane Analytic Geometry.** 1 Q. Winter. Spring. 5 cr. Mr. Lennes, Mr. Carey, Mr. Merrill.

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

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

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

**31. Teaching of Secondary Mathematics.** 1 Q. Spring. Summer. 5 cr. Given 1922-23. Mr. Lennes.

### For Undergraduates and Graduates

(Courses 101, 103, 104, 125, 126 are given alternate years as indicated. All other courses announced below are given from time to time as demand arises.)

**101. Ordinary Differential Equations.** 1 Q. Autumn. 5 cr. Prerequisite, Mathematics 22, 23. Given 1921-22. Mr. Lennes, Mr. Carey, Mr. Merrill.

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

**103. Synthetic Projective Geometry.** 1 Q. Winter. 5 cr. Given 1922-23. Mr. Merrill.

**104. Theory of Equations.** 1 Q. Winter. 5 cr. Given 1921-22. Mr. Lennes, Mr. Carey, Mr. Merrill.

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

**106. The Teaching of Arithmetic.** 1 Q. 5 cr. Deals with historical and present aspects of the subject. Particular attention is paid to Standard Tests and Measurements of Arithmetic ability.

**125. Solid Analytic Geometry.** 1 Q. Spring. 5 cr. Prerequisite, Mathematics 22. Given 1921-22. Mr. Carey.

**126a. Analytic Mechanics.** 1 Q. Autumn. 5 cr. Prerequisite, Mathematics 23. Given 1922-23. Mr. Carey.

**126b. Analytic Mechanics.** 1 Q. 5 cr. Prerequisite, 126a. Mr. Lennes, Mr. Carey, Mr. Merrill.

**For Graduates**

240. **Functions of a Real Variable.** 1 Q. 5 cr. Mr. Lennes.
241. **Functions of a Complex Variable.** 1 Q. 5 cr. Mr. Lennes, Mr. Carey, Mr. Merrill.
242. **Fundamentals of a Complex Variable.** 1 Q. 5 cr. Prerequisite, Mathematics 241. Mr. Lennes, Mr. Carey, Mr. Merrill.
243. **Vector Analysis.** 1 Q. 5 cr. Mr. Carey.
245. **Theory of Sets of Points.** 1 Q. 5 cr. Mr. Lennes.

**Astronomy**

- A 11. **Descriptive Astronomy.** 1 Q. Autumn. Spring. 5 cr. Mr. Merrill.
- A 101. **Celestial Mechanics.** 1 Q. Spring. 5 cr. Mr. Merrill.

## MILITARY SCIENCE AND TACTICS

PROFESSOR, A. C. CRON (Major, Infantry, U. S. Army). INSTRUCTORS, A. BROWN, W. H. TRUMAN (Sergeants, Infantry, U. S. Army).

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.

All resident male students of freshman and sophomore standing are required to take the 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 been in residence in this institution for not less than six quarters (summer quarters not counted) carrying not less than twelve (12) credits per quarter and who have received 75 quarter credits (but who have not as yet full junior standing).
5. Students who have completed two (2) years' training under P. M. S. and T. at some other institution for which credit has been given by this institution.
6. Students who have served in any branch of the Army or Navy, including the Students' Army Training Corps, during the World War.
7. Students who are not citizens of the United States.
8. "No member of the active personnel of the Army, Navy, or Marine Corps of the United States, or any commissioned officer of the National Guard or Naval Militia, or reserve officers of the military or naval forces of the United States shall be eligible for membership in the R. O. T. C., except that officers of the Reserve Corps may be author-



ized to take training in an arm other than the one in which they were previously trained when it is to the interest of the Government to do so."—Extract, Special Regulations, No. 44, War Department.

The requirements of military drill for special and unclassified students will be subject to the direction of the committee on admission and registration when not otherwise covered by above rules.

Members of the R. O. T. C. are provided with uniform, arms and equipment by the government.

The work required during the first two years covers what is known as the Basic Course. Students who have completed the Basic Course at this or some other institution are eligible for the Advanced Course, which covers two additional years. Before being admitted to the Advanced Course, however, 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 five 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.

Witness..... (Sig).....

Commutation is fixed from time to time by the Secretary of War and at present amounts to about \$16 per month, payable quarterly. Advanced students are required to attend one summer camp, the government furnishing transportation, subsistence, uniform and pay, \$1 per day. In determining eligibility for the Advanced Course credit may be given for service in the S. A. T. C.

### Basic Course

Required of Freshmen and Sophomores

**11a. Military Science and Tactics.** 1 Q. Autumn. 1 cr. Practical and theoretical, three hours per week. Physical drill, infantry drill, care of arms and equipment; lectures and moving pictures on organization, military courtesy and discipline, the rifle, the bayonet and the infantry pack.

**11b. Military Science and Tactics.** 1 Q. Winter. 1 cr. Practical and theoretical, three hours per week. Lectures and moving pictures on morale, infantry equipment, interior guard duty, small arms firing, military hygiene, first aid and sanitation. Recitations on infantry drill regulations. Preliminary target exercises, gallery practice.

**11c. Military Science and Tactics.** 1 Q. Spring. 1 cr. Practical, three hours per week. Infantry drill to include the School of the Company; guard mounting, parade, review, inspection; target practice.

**12a. Military Science and Tactics.** 1 Q. Autumn. 1 cr. Practical and theoretical, three hours per week. Sophomores participate in drills and practical work prescribed for freshmen, serving as non-commissioned officers. Military sketching and map reading.

**12b. Military Science and Tactics.** 1 Q. Winter. 1 cr. Practical and theoretical, three hours per week. Conferences and problems in minor tactics (advance and rear guards; outposts; patrols). Military sketching and map reading. Signalling. Field engineering.

**12c. Military Science and Tactics.** 1 Q. Spring. 1 cr. Practical, three hours per week. Sophomores participate in the work of freshmen, serving as non-commissioned officers. Minor tactics, the rifle, automatic rifle and machine gun.

### Advanced Course

Elective. Prerequisite, courses 11 and 12.

**13a. Military Science and Tactics.** 1 Q. Autumn. 2 cr. Practical and theoretical, six hours per week. Juniors participate in the drills and practical work of lower classmen, serving as company officers. Military field engineering.

**13b. Military Science and Tactics.** 1 Q. Winter. 2 cr. Practical and theoretical, six hours per week. Juniors participate in the drills and practical work of lower classmen, serving as company officers. Military field engineering; minor tactics; conferences and map problems in offensive and defensive conduct of small units.

**13c. Military Science and Tactics.** 1 Q. Spring. 2 cr. Practical and theoretical, six hours per week. Juniors participate in the practical work of lower classmen, serving as company officers. The pistol, hand and rifle grenades, trench mortars and one pounder gun.

**14a. Military Science and Tactics.** 1 Q. Autumn. 2 cr. Practical and theoretical, six hours per week. Seniors participate in drills and practical work of lower classmen, serving as officers. Problems in minor tactics. Tactical walks.

**14b. Military Science and Tactics.** 1 Q. Winter. 2 cr. Practical and theoretical; six hours per week. Seniors participate in the work of lower classmen, serving as officers. Company administration. Military policy, history and economics. Military Law. Rules of Land Warfare. Map Maneuvers. War Game.

**14c. Military Science and Tactics.** 1 Q. Spring. 2 cr. Practical, six hours per week. Seniors participate in work of lower classmen, serving as officers. Tactical exercises. Musketry. Small arms firing.

LATIN & GREEK DEPT. WILL BE REINSTATED FOR  
THE COMING YEAR, 1921-22.

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THE STATE UNIVERSITY OF MONTANA

## MODERN LANGUAGES

PROFESSOR, F. C. SCHEUCH. INSTRUCTORS, MRS. LOUISE ARNOLDSON,  
MISS ELISE DEXTER, MRS. A. H. WEISBERG. ASSISTANT, GEORGE WITTER.

Students who do major work in the department of Modern Languages must take the following courses: 11, 13, 115, 119. In addition they are required to take two years of one other modern foreign language and one course in the history of Europe.

### German

Instruction in German was suspended during the war by order of the State Council of Defense. The State Board of Education has authorized the reinstatement of this subject as soon as the force of the order legally expires.

### French

**11a. Elementary French.** 1 Q. Autumn. Winter. Spring. 5 cr. Essentials of French grammar, practice in reading and conversation. Mrs. Arnoldson, Miss Dexter, Mr. Witter.

**11b. Elementary French.** 1 Q. Autumn. Winter. Spring. 5 cr. Continuation of 11a. Selections from modern French authors are read.

**13a. Intermediate French.** 1 Q. Autumn. Winter. Spring. 5 cr. Prerequisite, course 11a and 11b, or two years of high school French. In this course the more difficult constructions of French grammar are studied. Selections from modern French authors are read and practice in the spoken language is given. Mrs. Arnoldson, Miss Dexter, Mr. Witter.

**13b. Intermediate French.** 1 Q. Autumn. Winter. Spring. 5 cr. Continuation of 13a.

**115abc. Advanced French.** 3 Q. Autumn, winter, spring. 4 cr. each quarter. Continuation of course 13 with increased emphasis on literary appreciation. Opportunity for practice in the spoken language is given. Composition is conducted in connection with this course. Mrs. Arnoldson.

**117. Technical French.** 1, 2 or 3 Q. Credits based upon the amount of work done; in no case will a student receive more than 3 credits in any one quarter. This course is designed for students who have had at least two years of college French or the equivalent, and who wish to do French reading in their major subjects. Mr. Scheuch.

**119-121. Special.** 1, 2 or 3 Q. 4, 8 or 12 cr. Prerequisite, courses 11, 13, 115 or the equivalent. Courses 119 and 121 alternate with each other from year to year, and are arranged to meet the requirements of the students. Mrs. Arnoldson.

**Spanish**

**11a. Elementary Spanish.** 1 Q. Autumn. Winter. Spring. 5 cr. Introduction to Spanish grammar. Practice in reading and conversation. Mr. Scheuch, Miss Dexter.

**11b. Elementary Spanish.** 1 Q. Autumn. Winter. Spring. 5 cr. Continuation of 11a. Selections from modern Spanish authors are read. Mr. Scheuch, Miss Dexter.

**13a. Intermediate Spanish.** 1 Q. Autumn. Winter. Spring. 5 cr. Prerequisite, course 11 or two years of high school Spanish. In this course a more detailed study of Spanish grammar is taken up. Selections from modern Spanish authors are read. Practice in conversation is given. Mr. Scheuch, Miss Dexter.

**13b. Intermediate Spanish.** 1 Q. Autumn. Winter. Spring. 5 cr. Continuation of 13a. Mr. Scheuch, Miss Dexter.

**115abc. Advanced Spanish.** 3 Q. Autumn, winter, spring. 4 cr. each quarter. Prerequisite, courses 11, 13 or three years of high school Spanish. Continuation of course 13 with increased emphasis on literary appreciation and oral work. Mr. Scheuch.

**117. Technical Spanish.** 1, 2 or 3 Q. Credits based upon the amount of work done; in no case will a student receive more than 3 credits in any one quarter. This course is designed for students who have had at least two years of college Spanish or the equivalent, and who wish to do Spanish reading in their major subjects. Mr. Scheuch.

**119-121. Special.** 1, 2, or 3 Q. 4, 8 or 12 cr. Prerequisite, Courses 11, 13, 115 or the equivalent. Courses 119 and 121 alternate with each other from year to year, and are arranged to meet the requirements of the students. Mr. Scheuch.

**126. Teachers' Course.** 1 Q. Winter or spring. 2 cr. Open to advanced students who intend to teach German, French or Spanish.

## PHYSICAL EDUCATION

PROFESSOR, WILLIAM E. SCHREIBER. ASSISTANT PROFESSOR, LUCILLE LEYDA. INSTRUCTOR, B. W. BIERMAN. GRADUATE MANAGER OF ATHLETICS, H. H. LANSING.

The Department of Physical Education controls all 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 of 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.

All freshman and sophomore men and women are required to take work in regular classes of the department and all special students whose rating would be in either of these classes must report for regular work. (Six credits required for graduation. Three periods per week for two years.)

Regular gymnasium costumes are required for both men and women and these should under no conditions be ordered before consulting the instructor.

### PROFESSIONAL COURSE

Students who do major work in this department are required to have a minimum of 55 credits in Physical Education, including 11abc, 12abc. They should complete the following courses in the department of Biology: Zoology 11, Physiology 24, Histology 21, Bacteriology 19, 20. They must also complete the requirements of the Education department for certificate to teach. Practice teaching will be correlated with the Education department.

Major students in Physical Education are expected to take part in intra-mural or intercollegiate athletics.

### ATHLETICS

All intercollegiate athletics are under the supervision of the department, varsity teams being maintained in football, basketball, baseball, track, tennis and wrestling.

Facilities are provided for participation in athletic work for every member of the student body, intra-mural athletics being maintained in football (Rugby Association), hockey, basketball, baseball, track, tennis, cross country running, indoor baseball, boxing, wrestling, hand ball and gymnastics.

**PHYSICAL EDUCATION—PRACTICE****For Men**

**11a. Freshman Physical Education.** 1 Q. Autumn. 1 cr. Required work of all freshman men. Outdoor work in running and track athletic work. Setting up drills and recreative games. Indoor work: Marching, floor drills and apparatus work on horse, bucks and parallel bars, recreative games. Short talks on Personal Hygiene and care of the body.

**11b. Freshman Physical Education.** 1 Q. Winter. 1 cr. Required work of all freshman men. Continuation of the indoor work of 11a.

**11c. Freshman Physical Education.** 1 Q. Spring. 1 cr. Required work of all freshman men. Continuation of 11b. Outdoor work in track athletics, baseball and cross country running.

**12a. Sophomore Physical Education.** 1 Q. Autumn. 1 cr. Required work of all sophomore men. Outdoor athletic work in track athletics, football, setting up drills and recreative games. Indoor work in military marching, floor drills and dumbbells, barbells and clubs; heavy apparatus work on horse, bucks, rings, horizontal bars and parallel bars. Indoor athletic games. Wrestling and boxing.

**12b. Sophomore Physical Education.** 1 Q. Winter. 1 cr. Required work of all sophomore men. Continuation of the indoor work of 12a.

**12c. Sophomore Physical Education.** 1 Q. Spring. 1 cr. Required work of all sophomore men. Outdoor work in track athletics, baseball, handball, tennis and cross country running.

**For Women**

**11a. Freshman Physical Education.** 1 Q. Autumn. 1 cr. Required work of all freshman women. Outdoor work in hockey, tennis, track athletics, recreative games. Indoor work in Swedish gymnastics; instruction in proper walking and standing position; elementary dancing; Swedish floor drills and apparatus work; gymnastic games.

**11b. Freshman Physical Education.** 1 Q. Winter. 1 cr. Required work of all freshman women. Continuation of the indoor work of 11a.

**11c. Freshman Physical Education.** 1 Q. Spring. 1 cr. Required work of all freshman women. Continuation of the work in 11b. Outdoor work in tennis, track athletics, baseball, hockey, handball and recreative games.

**12a. Sophomore Physical Education.** 1 Q. Autumn. 1 cr. Required work of all sophomore women. Outdoor work in hockey, tennis, baseball, and track athletics. Indoor work in gymnastics and floor drills

with dumbbells, bar bells and clubs. Light apparatus work on buck, horse, parallel bars; gymnastic dancing and gymnastic games.

**12b. Sophomore Physical Education.** 1 Q. Winter. 1 cr. Required work of all sophomore women. Continuation of the indoor work of 12a.

**12c. Sophomore Physical Education.** 1 Q. Spring. 1 cr. Required work of all sophomore women. Continuation of indoor work of 12b and outdoor work in hockey, baseball, association football, track athletics, tennis, handball and recreative games.

#### Men and Women

**15a. Advanced Gymnastics.** 1 Q. Autumn. 1 cr. Prerequisite, junior standing or marked ability in gymnastic work. Required of all students who do major work in Physical Education. Light and heavy gymnastic work; floor drills with apparatus, dumb bells, bars and clubs. Apparatus work on bucks, mats, horse, parallel bars, rings and horizontal bar. Gymnastic and folk dancing. Gymnastic and athletic games.

**15b. Advanced Gymnastics.** 1 Q. Winter. 1 cr. Continuation of 15a.

**15c. Advanced Gymnastics.** 1 Q. Spring. 1 cr. Continuation of 15b.

### GENERAL ATHLETICS

#### Autumn—For Men

Intercollegiate football. Interfraternity contests in football, handball, association football and cross country running. Interclass contests in the same sports.

#### Autumn—For Women.

Intersorority contests in hockey, association football and baseball. Interclass and intercollegiate contests in the same sports.

#### Winter—For Men

Intercollegiate basketball and wrestling. Interfraternity, interclass and intercollege contests in basketball, wrestling, boxing, indoor baseball and gymnastics.

#### Winter—For Women

Intersorority and interclass contests in basketball, indoor baseball and gymnastics.

#### Spring—For Men

Intercollegiate baseball and track. Interfraternity, interclass and intercollege contests in track, baseball, tennis, handball.

#### Spring—For Women

Intersorority and interclass contests in track, tennis, handball, and baseball.

## SUGGESTED CURRICULUM FOR MAJORS

## FIRST YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Biology 11 .....	4	4	4
English 11 .....	.....	.....	5
College Education 10.....	1	.....	.....
Physical Education 11.....	1	1	1
Military Science (men).....	1	1	1
Language .....	5	5	.....

## SECOND YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Physiology 24 .....	4	4	.....
Hygiene, Biology 26 .....	.....	.....	3
Psychology 11 .....	4	4	.....
Anatomy P. E. 20.....	3	3	3
Military Science (men) .....	1	1	1
Physical Education 12 .....	1	1	1
Public Speaking 20a .....	.....	.....	3
History of Physical Education 25.....	.....	.....	1

## THIRD YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Histology 21 .....	4	4	.....
Education 114-118-119 .....	3	3	3
Systems and Methods P. E. 35.....	3	3	.....
Anthropometry P. E. 31.....	3	.....	.....
Physical Education 15 .....	1	1	1
Kinesiology P. E. 38.....	.....	4	.....
Playgrounds P. E. 34.....	.....	2	2
First Aid P. E. 32.....	.....	.....	2
School Gymnastics P. E. 37.....	.....	.....	4
Laws of Growth and Development P. E. 39.....	.....	.....	1

## FOURTH YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Bacteriology 19 .....	4	4	.....
Education 122-130 .....	5	3	.....
Observation and Teaching 126.....	.....	x	x
Principles of Coaching P. E. 43.....	2	2	2
Physiology of Exercise 48.....	2	.....	.....
Physical Diagnosis P. E. 49.....	.....	2	.....
Corrective Gymnastics P. E. 41.....	.....	2	.....
Equipment and Management P. E. 42.....	.....	.....	2
Massage P. E. 46 .....	.....	.....	2
Pageantry P. E. 47 .....	.....	.....	1
Physical Education 45 .....	1	1	1

## Outline of Professional Courses

15abc. **Advanced Gymnastics.** 3 Q. Autumn, winter, spring. 1 cr. each quarter. Required of all students doing their major work in Physical Education. Course given in connection with P. E. 35. Open to other students in the junior class or students in the sophomore class who show marked ability. Autumn quarter, German gymnastics. Winter quarter, Swedish gymnastics. Spring quarter, out of door athletic work and practice in handling squads in athletic work.



**20abc. Human Anatomy.** 3 Q. Autumn, winter, spring. 3 cr. each quarter. Required of all sophomore students who expect to major in Physical Education. Studied from skeleton, charts and lectures. Autumn quarter, bones, skeleton, ligaments and joints. Winter quarter, muscular, circulatory, digestive and lymphatic systems. Spring quarter, nervous, uro-genital, special senses and organs of the body.

**25. History of Physical Education.** 1 Q. Spring. 1 cr. A study of the various systems of Physical Education, their beginning, progress and relations to the present systems of Physical Education employed in American institutions.

**35ab. Systems and Methods.** 2 Q. Autumn, winter. 3 cr. each quarter. Open only to major students. 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.

**31. Anthropometry and Prescription.** 1 Q. Autumn. 3 cr. 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.

**38. Kinesiology.** 1 Q. Winter. 4 cr. Open only to major students. Prerequisite, Anatomy 20. 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.

**34ab. Playgrounds.** 2 Q. Winter, spring. 2 cr. each quarter. History theory of play, construction, equipment, problems, management, methods of conducting, and some practical work in supervision.

**32. First Aid.** 1 Q. Spring. 2 cr. Accidents of the human body and how to treat them.

**37. School Gymnastics.** 1 Q. Spring. 4 cr. Methods of handling gymnastics in the graded and high school. Types of work suitable for each grade. Progression of work.

**39. Laws of Growth and Development.** 1 Q. Spring. 1 cr. A study of the growth and development of the child from birth to adult years and the application of Physical Education to these laws. Open to major students only.

**43ab. Principles of Coaching.** 3 Q. Autumn, winter, spring. 2 cr. each 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, volleyball and association football.

**48. Physiology of Exercise.** 1 Q. Autumn. 2 cr. Prerequisite,

Anatomy 20, Physiology 24. Open only to major students. A study of the physiological effects of the different types of exercise on the functions of the human body.

**49. Physical Diagnosis.** 1 Q. Winter. 2 cr. Prerequisite, Anatomy 20. 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.

**41. Corrective Gymnastics.** 1 Q. Winter. 2 cr. Prerequisite, Anatomy 20, Kinesiology 34. Open only to major students. A study of the prevention and correction of deformities in the child.

**42. Equipment and Management.** 1 Q. Spring. 2 cr. Open only to major 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.

**46. Massage.** 1 Q. Spring. 2 cr. Prerequisite, Anatomy 20, Physiology 24, Physiology of Exercise 48. Open only to major students. The place of massage in medicine and physical education. Methods and uses of the various types of massage. Practical application.

**47. Pageantry.** 1 Q. Spring. 1 cr. Study of the construction, costuming and producing of a pageant. Particular emphasis on interpretative dancing.

**45abc. Gymnastic Dancing.** 3 Q. 1 cr. each quarter. Folk and gymnastic dancing given especially from the standpoint of the teacher. In the spring quarter the work is correlated with the annual pageant. Open only to majors and those securing the permission of the director.

## PHYSICS

ASSISTANT PROFESSOR, I. M. RAPP.

Students who do major work in Physics are required to have a minimum of 45 credits in this department. In addition they should take courses in Mathematics to the extent of 30 credits; Chemistry 15 credits; German 10 credits; and French 10 credits. It is advised that credits be offered in other departments as follows: Psychology, 8 credits; English, 16 credits; History, 10 credits; Economics, 10 credits. Majors in Physics should register for general chemistry in the freshman year and calculus in the sophomore year.

### SUGGESTED CURRICULUM

#### FRESHMAN YEAR

Mathematics, 12, 13, 21.....	15 cr.
Chemistry, 11 or 13.....	15 cr.
French 11 or 13.....	10 cr.
English 11a .....	5 cr.
College Education .....	1 cr.
Physical Education .....	3 cr.
Military Science (for men)....	3 cr.

#### SOPHOMORE YEAR

Physics, 20abc .....	15 cr.
Mathematics, 22, 23, 24.....	15 cr.
Physical Education .....	3 cr.
Military Science (for men)....	3 cr.
English 11b .....	4 cr.
*Psychology 11 .....	8 cr.

#### JUNIOR YEAR

Physics .....	15 cr.
*Education 114, 118, 119.....	11 cr.

#### SENIOR YEAR

Physics .....	15 to 25 cr.
*Education 122, 126, 130.....	14 cr.

### Suggested Electives for the Junior and Senior Years

Economics 14  
 History 11 or 14 and 21  
 English Literature, 2 Q. or  
 Public Speaking, 2 Q.

Home Economics  
 Mathematics 26 and 101  
 Chemistry 15 and 17  
 Psychology 50, 51, 52

### For Undergraduates

**11. College Physics.** 2 Q. Winter, spring. Continuous. 10 cr. A course planned for premedical students and for those who do not offer one unit entrance credit in physics. Premedical students who require 12 credits in physics should register in additional courses to which they may be eligible.

**12. Household Physics.** 1 Q. Autumn. 4 cr. A course planned for students in Home Economics. The laws of physics as applied in the household in measurement, refrigeration, heating, lighting, and ventilation, are studied in the classroom and in the laboratory.

**20a. Mechanics, Molecular Physics and Heat.** 1 Q. Autumn. 5 cr. Prerequisite, sophomore standing, one entrance credit in physics and enrollment in trigonometry. A course in college physics in which about twenty-five fundamental and representative problems in these fields are studied.

\*Required for the teacher's certificate.

**20b. Electricity, Sound and Light.** 1 Q. Winter. 5 cr. Prerequisite, Physics 20a. This course is a continuation of 20a and with it constitutes an introduction to the experimental methods of college physics.

**20c. General Physics.** 1 Q. Spring. 5 cr. Prerequisite, physics 20b. This course is a review and an amplification of Physics 20ab. It completes a year's work in general college physics.

**31abc. Junior Laboratory.** 3 Q. Autumn, winter, spring. 2 to 5 cr. each quarter. Prerequisite, Physics 11 or 20b. Experimental work in general physics. The work given will be adapted to the needs of the students registering for the course.

**36. The Teaching of High School Physics.** 1 Q. 2 cr. A study will be made of the subject matter of elementary physics and of the methods by which it may best be presented to the student. A list of the apparatus necessary for class room demonstration and for laboratory work will be developed.

#### For Undergraduates and Graduates

Courses numbered above 100 are given in alternate years as called for. Courses number 114, 127 and 145 will be given in 1921-1922.

**114. Electrical Measurements.** 1 Q. Autumn. 5 cr. Prerequisite, Physics 20b or 20c and Calculus. A lecture laboratory course which deals with the theory and practice of electrical measurement and electrical measuring instruments.

**121. Physical Optics.** 1 Q. Winter. 3 cr. Prerequisite, Physics 20b or 20c and Calculus. A course which is introductory to the mathematical theory of light. Special emphasis is laid on the theory of interference; diffraction; dispersion and polarization.

**123. Heat.** 1 Q. Autumn. 3 cr. Prerequisite, Physics 20b or 20c, and Calculus. A study of the theory of heat including an introduction to thermodynamics.

**141abc. Senior Laboratory.** 3 Q. Autumn, winter, spring. 2 to 5 cr. each quarter. Prerequisite, 20 credits in Physics. An advanced laboratory course in precision measurements and in the repetition of classical experiments.

**145. Discharge of Electricity Through Gases.** 1 Q. Spring. 3 cr. Prerequisite, Physics 20b or 20c, and Calculus. An introductory course. It will include a discussion of ionization, recombination of ions, specific velocity, ionic charge, atomic constitution, vacuum tube discharge, electronic constants, electro-magnetic mass.

**146. Radioactivity.** 1 Q. Spring. 2 cr. Prerequisite, Physics 20b or 20c, and Calculus. A study of the fundamental phenomena of radioactivity; types of radiation, radioactive substances and their transformation, disintegration theory, ionic charge, electronic mass and velocity, secondary radiation.

## PSYCHOLOGY AND PHILOSOPHY

PROFESSOR, FRANKLIN O. SMITH. ASSISTANT PROFESSOR, WALTER R. AMES.

Students who do major work in this department must have 45 credits in Psychology, including: General Psychology 8, Experimental Psychology 6, Social Psychology 5, Genetic Psychology 5, Ethics 5, Problems in General Psychology 4. 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.

### For Undergraduates

**11. General Psychology.** 2 Q. Autumn, winter. Continuous. 8 cr. Prerequisite, sophomore standing. A prerequisite for all other courses in psychology and for courses in education which are required for the University certificate of qualification to teach. Students who take General Psychology are advised to take General Zoology as a foundation. Mr. Smith, Mr. Ames.

**12. Introductory Experimental and Physiological Psychology.** 1 Q. Autumn. 3 cr. Prerequisite, Psychology 11. One lecture with reading and discussion and four hours a week of laboratory work. This course aims to familiarize the student with laboratory methods and apparatus in the study of some of the laws of mental action and their psychological conditions. Mr. Smith.

**13. Genetic and Comparative Psychology.** 1 Q. Autumn. 5 cr. Prerequisite, Psychology 11, but open to advanced students in zoology who have not had General Psychology. A study of animal behavior and a comparison between the mind of man and the lower animals. A course in mental evolution with special emphasis upon the development of the human mind in the race and the individual.

**14. Social Psychology.** 1 Q. Winter. 5 cr. Prerequisite, Psychology 11. A study of the social aspects of mental life and of the psychological processes of groups. Correlated courses of special values are Sociology, Law, Business Administration, Journalism and Education. Mr. Smith.

**15. Abnormal Psychology.** 1 Q. Spring. 5 cr. Prerequisite, Psychology 11. Mr. Smith.

**16. Problems in General Psychology.** 1 Q. Spring. 4 cr. Prerequisite, Psychology 11. Offers opportunity for more intensive and unified study of a few special topics in General Psychology. Considers such topics as nature of mind, the self, personality, the will.

**30. Psychology of Music.** 1 Q. Spring. 3 cr. Prerequisite, Psy-

chology 11. The investigation and measurement of musical ability. Mr. Smith.

**31. Psychology of Religion.** 1 Q. Spring. 4 cr. Prerequisite, Psychology 11. Mr. Smith.

**32. Mental Measurements.** 1 Q. Winter. 4 cr. A study of the methods of measuring intelligence and efficiency. The Binet Scale and its variants are investigated and results are studied with reference to retardation, mental deficiency and delinquency, to exceptional children, and to mental surveys. Mr. Smith.

**33. Psychology and Human Action.** 1 Q. Spring. 3 cr. Prerequisite, Psychology 11. Lectures, reading, discussion and laboratory work. A study of the general characteristics of personal action as represented in vocational, business, and professional life. The classification and rating of personnel of employees on a psychological basis. Mr. Smith.

**34. Psychology of Advertising and Salesmanship.** 1 Q. Spring. 3 cr. Prerequisite, Psychology 11. Mr. Smith.

**35. Employment Psychology.** 1 Q. Spring. 3 cr. Prerequisite, Psychology 11. Intended primarily for students in the School of Business Administration. Mr. Ames.

**50. Logic.** 1 Q. Autumn. 5 cr.

**51. Ethics.** 1 Q. Spring. 5 cr. Prerequisite, sophomore standing. Mr. Sisson.

**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.

**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 courses 11 and 12.

#### For Graduates and Undergraduates

**101. Advanced Experimental Psychology.** 1 Q. Winter. 3 cr. Prerequisite, Psychology 11. One lecture and four hours a week of laboratory work. A study of special problems of quantitative psychology. Mr. Smith.

**102. Problems in Psychology.** 1 Q. Autumn. Winter. Spring. Credit according to work done. Open only to advanced students who have taken two or more courses in Psychology. Mr. Smith.

**103. Psychological Journal Club.** 1 Q. Autumn. Winter. Spring. 1 cr. Open only to advanced students who have taken two or more courses in Psychology. Meets once a week. Mr. Smith.

# 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:

### **Business Administration**

Commercial Law, Commercial Geography, Credits and Collections, Money and Banking, Elementary Accounting.

### **Education**

History of Education, Educational Psychology, School Hygiene, Principles of Education, School Management.

### **English**

Freshman English, Business English, American Literature, Readings in Great Authors, Teachers' Course in English.

### **Fine Arts**

History and Appreciation of Art, Artistic Anatomy, Elementary Drawing, Design.

### **History**

Modern Europe, Mediaeval European History, English History, North American Colonies, Ancient History, United States History, Montana History and Government, General European History, American Government.

### **Home Economics**

Textiles.

### **Mathematics**

Elementary Algebra, Plane Geometry, Intermediate Algebra, Solid Geometry, College Algebra, Plane Trigonometry, Differential Calculus, Integral Calculus, Mechanics.

### **Modern Languages**

Intermediate French, Advanced French, Intermediate Spanish.

### **Psychology**

General Psychology, Social Psychology.

### **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.

### **MOVING PICTURE FILMS**

The Public Service Division of the State University is distributing center for the state of Montana of 100 reels of motion pictures, including the official War Review and other war and industrial pictures. These films are deposited at the University by the Bureau of Education, and colleges, normal schools, high schools, elementary schools, churches and other public or voluntary educational organizations may obtain them from the University for educational purposes. Plans are under way for an extension of this service beginning in the fall of 1921. The University will either purchase or act as distributing center of a large number of educational and high class entertainment films. Details on this point will be given on application.

### **BUREAU OF INFORMATION**

The Bureau of Public Information was established in October, 1913, for the purpose of furnishing information to all classes of citizens of Montana on all classes of subjects. Such information is furnished absolutely 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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All standard medical schools in the United States now require for admission at least two years of college work; some of the leading schools demand college graduation.

The State University offers courses preparing students for entrance to any medical school in the United States. Besides the courses demanded for admission to medical colleges the departments of Chemistry, Physics, Botany and Biology present outlines of study of greatest use and service to students who plan to enter the field of medicine, supplementing, and in some cases paralleling, the courses offered to the student of medicine in the medical college. In addition to these courses by the departments mentioned the School of Pharmacy has many courses which may be elected by students not planning for a degree in pharmacy. Many of these courses are intimately connected with the work of the physician, and are involved in the general medical instruction.

## **ESSENTIALS OF AN ACCEPTABLE MEDICAL COLLEGE**

Students to be admitted to an acceptable medical college must conform to the following standards determined by the Council on Medical Education of the American Medical Association:

For admission to the preliminary college work students must have completed a four-year course of at least fifteen units in a standard accredited high school or other institution of standard secondary grade, or have its equivalent as demonstrated by an examination. The subjects suggested by the Council make about the same list as given for any accredited high school.

The minimum requirement for admission to acceptable medical schools, as determined by the above named Council, in addition to the high school work previously specified, is two years of collegiate work extending through thirty-two weeks each and covering 90 credits. This college work must include courses in physics, chemistry, biology, and preferably German or French.

The minimum requirements for Class A medical schools are as follows: Chemistry, including inorganic, organic and qualitative; physics, 9 credits (6 semester hours) when one unit entrance credit has been offered, or 12 credits (8 semester hours) when no high school physics has been taken; biology, 12 credits (8 semester hours) in general biology, zoology, or zoology and botany, but not in botany alone; English, 9 credits (6 semester hours); modern language, a reading knowledge of French or German is urged; electives, sufficient to make a total of 90 credits (60 semester hours).

The requirements of specific institutions vary and of certain medical schools are greater than those stated above. Students should familiarize themselves with the requirements of the institution which they wish to attend, and plan their registration accordingly.

Every medical school of high standing urges students to take more than the two years above mentioned. Such courses as botany, zoology, introductory physiology, physical chemistry, quantitative chemical analysis, physiography, and psychology are suggested by various medical colleges. These are all offered in the curriculum of the State University.

### CURRICULUM

The following outline is suggestive only. It includes those subjects specified in the minimum requirements for the two year premedical course. It makes no provision for additional subjects which may be required by particular institutions.

#### FIRST YEAR

	Quarter Credits		Quarter Credits
English 11.....	9	Zoology 11 .....	12
Chemistry 11 or 13.....	15	German or French.....	10
		Physical Education .....	3

#### SECOND YEAR

Chemistry 15 and 19.....	10 to 15	Physics 11 .....	12
Elective .....	15 to 20	Physical Education .....	3

A number of the best medical schools now require or advise either three or four years of college work for entrance. If students wish to carry out this plan, they may do major work in any department of the college of arts and sciences. The courses mentioned above as essential entrance requirements to medical schools must be taken. Some of these may fulfill major requirements or satisfy restricted electives. Among the free electives it is suggested that further work in biology and courses in psychology, bio-chemistry, English, and modern languages, both French and German, are desirable.

## 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, Chemistry, Economics and Sociology, Education, Geology, History, Mathematics, Political Science, Psychology and Philosophy, and Modern Languages.

The State University is prepared to give instruction of a thorough character leading to the degrees 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 candidate must submit a satisfactory thesis and must pass a satisfactory examination. The thesis must be submitted to an examining committee of three mem-

bers, consisting of the instructor with whom the major work has been done and 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.

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 achievements 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—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.

# School of Business Administration

PROFESSOR, SHIRLEY J. COON (Dean). ASSISTANT PROFESSOR, CLYDE E. BURGEE. INSTRUCTORS, GLADYS BLEE, LEO SCHAEFER.

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 the 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 Bachelor of Arts degree must meet the University requirements for a baccalaureate degree. For those who do major work in this School a minimum of forty-five credits in Business Administration and Economics is required. Students expecting to register in the School of Business Administration should take Economic Resources, Economic History of England, Economic History of the United States, Algebra, Mathematics of Investments, Business Composition, Elementary Accounting, and Principles of Economics, in their freshman and sophomore years. Principles of Economics is a prerequisite to all advanced work in Business Administration. A satisfactory curriculum for the first two years is suggested below. Only such subjects will be accepted as fulfilling the major requirements as have the approval of the dean.

## 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.

65 Limit of Major

**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 modifications based upon the individual students' entrance credits as indicated on pages 47-48 of this catalogue.

**FRESHMAN YEAR**

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Physical Education .....	1	1	1
Military Science .....	1	1	1
College Education .....	1	.....	.....
Language .....	5	5	5
English or Algebra .....	5	5	.....
Mathematics of Investments .....	.....	.....	5
<del>Economic Resources</del> .....	4	.....	.....
<del>Economic History of England</del> .....	.....	4	.....
<del>Economic History of U. S.</del> .....	.....	.....	4

**SOPHOMORE YEAR**

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Physical Education .....	1	1	1
Military Science .....	1	1	1
Science or English .....	4-5	4-5	4-5
<del>Principles of Economics</del> .....	4	4	.....
Business Composition .....	.....	.....	4
United States History .....	4	4	.....
Labor Problems .....	.....	.....	3
Accounting .....	5	5	5

Students registering in the School of Business Administration may select one of the following groups:

**General Business**

**JUNIOR YEAR**

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
General Psychology .....	4	4	.....
Psychology 34 .....	.....	.....	3
Psychology 35 .....	.....	.....	3
Credits and Collection .....	.....	.....	3
Money and Banking .....	3	3	.....
Exchange .....	.....	.....	3
Commercial Law .....	3	.....	.....
Economic and Social Problems .....	.....	3	3
Co-operative Movements .....	.....	3	.....
Elective .....	6	3	3

**SENIOR YEAR**

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Corporation Finance .....	4	.....	.....
Public Finance .....	.....	4	.....
Foreign Trade .....	.....	.....	4
Business Management .....	.....	3	.....
Public Utilities .....	.....	.....	3
<del>Marketing</del> .....	3	3	.....
<del>Selling</del> .....	.....	.....	3
Transportation .....	4	.....	.....
Sociology .....	4	4	.....
Advanced Economic Theory .....	.....	.....	3
Senior Seminar .....	1	1	1
Ethics .....	.....	.....	5

**Banking and Finance****JUNIOR YEAR**

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
General Psychology .....	4	4	....
Psychology 34 .....	....	....	3
Credits and Collection .....	....	....	3
Money and Banking .....	3	3	....
Exchange .....	....	....	3
Advanced Accounting .....	4	....	....
Economic and Social Problems.....	....	3	....
Political Science 17 .....	....	....	5
Elective .....	5	6	....

**SENIOR YEAR**

Corporation Finance .....	4	....	....
Public Finance .....	....	4	....
Commercial Law .....	3	....	....
Business Management .....	....	3	....
Public Utilities .....	....	....	3
Marketing .....	3	3	....
Selling .....	....	....	3
Political Science 106 .....	....	4	....
Political Science 107 .....	....	....	4
Senior Seminar .....	1	1	1
Ethics .....	....	....	5
Elective .....	4	....	....

**Accounting****JUNIOR YEAR**

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
↓ General Psychology .....	4	4	....
↓ Psychology 34 .....	....	....	3
↓ Credits and Collection .....	....	....	3
Money and Banking .....	3	3	....
Exchange .....	....	....	3
↓ Advanced Accounting .....	4	....	....
↓ Cost Accounting .....	....	4	....
↓ Auditing .....	....	....	4
Elective .....	5	5	....

**SENIOR YEAR**

↓ Corporation Finance .....	4	....	....
↓ Public Finance .....	....	4	....
↓ Commercial Law .....	3	....	....
Business Management .....	....	3	....
Public Utilities .....	....	....	3
Marketing .....	3	3	....
Selling .....	....	....	3
Economic and Social Problems.....	....	3	....
C. P. A. Problems .....	....	....	4
↓ Senior Seminar .....	1	1	1
Ethics .....	....	....	5
Elective .....	4	3	....

**Merchandising****JUNIOR YEAR**

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
* General Psychology .....	4	4	....
Psychology 34 .....	....	....	3
Credits and Collection .....	....	....	3
Contracts .....	3	3	3
Money and Banking .....	3	3	....
Exchange .....	....	....	3
Transportation .....	4	....	....
* Advertising Art .....	2	2	....
Economic and Social Problems.....	....	3	....
Foreign Trade .....	....	....	4

## SENIOR YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Corporation Finance .....	4	---	---
Public Finance .....	---	4	---
Business Management .....	---	3	---
Public Utilities .....	---	---	3
+ Marketing .....	3	3	---
+ Selling .....	---	---	3
Property 1 .....	3	3	---
Agency .....	---	---	4
Sociology .....	4	4	---
Senior Seminar .....	1	1	1
Ethics .....	---	---	5
Elements of Advertising .....	2	2	2

## Secretarial Work

## JUNIOR YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
General Psychology .....	4	4	---
Credits and Collection .....	---	---	3
Sociology .....	4	4	---
Advanced Composition .....	---	---	4
Typewriting .....	(5)	(5)	(5)
Elective .....	3	3	5

## SENIOR YEAR

Corporation Finance .....	4	---	---
Public Finance .....	---	4	---
Commercial Law .....	3	---	---
Business Management .....	---	3	---
Public Utilities .....	---	---	3
Money and Banking .....	3	3	---
Political Science 17 .....	---	---	5
Shorthand .....	4	4	4
Senior Seminar .....	1	1	1
Ethics .....	---	---	5

## Commercial Teaching

## JUNIOR YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
General Psychology .....	4	4	---
Psychology 34 .....	---	---	3
Credits and Collections .....	---	---	3
Typewriting .....	(5)	(5)	(5)
Education 114 .....	6	---	---
Education 118 .....	---	3	---
Education 119 .....	---	---	3
Elective .....	3	4	---

## SENIOR YEAR

Corporation Finance .....	4	---	---
Public Finance .....	---	4	---
Commercial Law .....	3	---	---
Business Management .....	---	3	---
Public Utilities .....	---	---	3
Shorthand .....	4	4	4
Education 122 .....	5	---	---
Education 126 .....	---	3	3
Education 130 .....	---	3	---
Senior Seminar .....	1	1	1
Ethics .....	---	---	5



## DESCRIPTION OF COURSES

## For Undergraduates

✓ **11. Elementary Accounting.** 1 Q. Autumn. 5 cr. The fundamental principles are thoroughly explained and are illustrated through the medium of a practice set, numerous exercises and business papers. Prepares the student for Elementary Accounting 12. Open only to those students who have had no bookkeeping and no practical experience. Mr. Schaefer.

✓ **12. Elementary Accounting.** 2 Q. Autumn, winter. Winter, spring. 5 cr. each quarter.

a. The fundamental principles of accounting are emphasized in this course. It is built up along the lines and methods of modern accounting practice. The subject is developed by first making a general study of the financial and income statements; then the account; theories of debit and credit; underlying principles of the various accounting records; business papers and documents used as the basis for the first entry; classification of accounts.

b. Handling sales and purchases; safe-guarding the cash; partnership; controlling accounts; single entry; consignments, and related topics; beginning study of the corporation. Mr. Schaefer.

✓ **13. Advanced Accounting.** 1 Q. Autumn. Spring. 4 cr. Prerequisite, Business Administration 12. A thorough study of the corporation and its accounting problems. Some of the topics covered are: records and accounts peculiar to a corporation; perpetual inventory; voucher system and payroll methods; theories of the balance sheet; valuation of assets in the balance sheet; depreciation; showing of liabilities; valuation of capital stock; profits; dividends, reserve and surplus; sinking and other funds; income summary; liquidation of a corporation, consolidations and mergers; branch house accounting, etc. Mr. Schaefer.

✓ **21. Typewriting** 3 Q. Autumn, winter, spring. 5 times per week. No credit. a. First quarter: Keyboard; drills for accuracy; copying from straight material; speed work. b. Second quarter: Letter forms; copying from rough draft; arrangement of manuscripts; speed work. c. Third quarter: Billing; legal forms; mimeographing; speed work. Miss Blee.

**22. Shorthand.** 2 Q. Autumn, winter. 5 times per week. 4 cr. each quarter. a. First quarter: Study of Gregg Manual, covering principles of the Gregg System; reading shorthand plates; elementary dictation. b. Second Quarter: Reading; dictation; speed work. Miss Blee.

**23. Shorthand.** 1 Q. Spring. 2 cr. Methods of Teaching Shorthand and Typewriting. Miss Blee.

**24. Office Training.** 1 Q. Spring. 2 cr. Prerequisite, 10 quarter

hours in typewriting and 8 credits in shorthand. 3 times per week. Principles of filing and office practice. Miss Blee.

### For Graduates and Undergraduates

**101. Cost Accounting.** 1 Q. Winter. 4 cr. Prerequisite, Business Administration 12. Elements of costs; principles and general methods of cost finding; direct and indirect expenses; wage systems; recording material and labor costs; compiling the cost data; control of cost records by financial books. Study of special cost systems. Mr. Schaefer.

**102. Auditing.** 1 Q. Spring. 4 cr. Prerequisite, Business Administration 12 and 13. Alternates with Business Administration 103. Text books on auditing will be used as a basis for home assignments. Audit programs for various classes of business will be prepared. The principal object of this course will be to train and develop the analytical faculties of the student. Mr. Schaefer.

**103. C. P. A. Problems.** 1 Q. Spring. 4 cr. Prerequisite, Business Administration 12, 13. Alternates with Business Administration 102. Study of unrelated problems previously given in C. P. A. examinations. Mr. Schaefer.

**121. Business Management.** 1 Q. Winter. 3 cr. Prerequisite, Economics 14. The organization and management of a business with reference to ownership and operation; co-ordination 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. Alternates with Business Administration 122. Mr. Coon.

**122. Labor Administration.** 1 Q. Winter. 3 cr. Prerequisite, Economics 14 and 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. Alternates with Business Administration 121. Mr. Coon.

**132. Credits and Collections.** 1 Q. Spring. 3 cr. Prerequisite, Economics 14 and Business Administration 12. Credit organization; the credit department; the mercantile agencies; means of gathering credit information; securing and granting credit; collection methods. Mr. Schaefer.

**133. Corporation Finance.** 1 Q. Autumn. 4 cr. Prerequisite, Economics 14. The position of corporate organization in modern business; the financial side of organization and promotion; the financial policy with reference to underwriting; capitalization; 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.

**141. Commercial Law.** 1 Q. Autumn. 3 cr. Prerequisite, sopho-

more standing. The elements of Contracts. Agency. Bailments. Sales. Business Associations. Contracts of indemnity. Negotiable instruments. Mr. Coon.

✓ 151. **Marketing.** 2 Q. Autumn, winter. Continuous. 6 cr. Prerequisite, Economics 14. 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. The nature and methods of foreign trade. Particular emphasis is given to export trade. Mr. Jacobsen.

✓ 153. **Selling.** 1 Q. Spring. 3 cr. Prerequisite, Business Administration 151, Psychology 35. The selection and organization of the sales force; selection of advertising mediums; financing a sales and advertising organization; co-ordinating the selling forces. A study is made of some advertising campaigns that have been made in recent years. National display advertising, retail and department store advertising, posters and other advertising. Personal salesmanship. Students will be required to submit original work. The wider economic and social aspects will be considered. Mr. Coon.

191. **Seminar.** 3 Q. Autumn, winter, spring. Continuous. 3 cr. Prerequisite, senior standing. An intensive study of some problems in business administration under the direction of the chairman and other instructors in the department.

### For Graduates

201. **Research.** Individual work upon selected subjects.

All students in Business Administration, as well as others, may avail themselves of the courses in shorthand and typewriting. The courses in shorthand carry credit only for those who are majoring in Business Administration. Typewriting does not carry credit and the number in the class is restricted to twenty-five.

# School of Forestry

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PROFESSORS, DORR SKEELS (Dean), T. C. SPAULDING. ASSISTANT PROFESSOR, R. R. FENSKA. INSTRUCTORS, HAROLD H. LANSING, BERNIE F. KITT.

The work of the Montana School of Forestry is along two distinct lines—an undergraduate course of four years which provides liberally for specialization in all the various branches of Forestry and Forestry Engineering, and a short course of 12 weeks for Forest Rangers.

The undergraduate courses are arranged to train men for the various branches of scientific and administrative work in the government forest service and for work with lumber companies and timber-owning corporations involving the administration, protection and utilization of forests. The work of the third and fourth years is arranged to allow for specialization in Forest Administration, Lumbering, Forest Engineering, Silviculture, Forest Management and Grazing Management.

Graduate training, leading to the degree of Master of Science is offered in Silviculture and Forest Management.

The ranger school is organized for the special purpose of training men already in woods work to do better service in forestry and particularly to improve the training of forestry officers. Distinctly, it is not a course for inexperienced men.

A forestry club with a student and faculty membership of nearly 100 meets fortnightly for the discussion of forestry problems, the consideration of technical and professional papers and the promotion of a social spirit.

## Advisory Board

At the annual meeting of the Pacific Coast Logging Congress in 1917 it was proposed to create an Advisory Board for each of the Forestry Schools in the western states. This board was to consist of prominent lumbermen and members of the U. S. Forest Service who would co-operate with the faculty of the School of Forestry in formulating an educational policy which would meet with the approval of both the lumbermen and Forest Service. In consequence of this proposal, the State Board of Education authorized in December, 1917, the creation of a special committee representing the lumbering interests and forestry activities to co-operate with the officers of the School of Forestry.

The advisory committee of the Montana school consists of the following members: Kenneth Ross, General Manager Lumber Dep't., An-

aconda Copper Mining Co., Bonner, Mont.; W. R. Ballard, General Manager, Somers Lumber Co., Somers, Mont.; Fred Morrel, District Forester, District 1, U. S. F. S., Missoula, Mont.; E. G. Polleys, Polleys Lumber Co., Missoula, Mont.

### **Advantageous Location**

The Montana School of Forestry possesses marked advantages in the matter of location. Every forest type of the inland northwest is found within a few miles of the school. Two transcontinental railroads, three branch railroads and two interurban electric lines place the school within easy reach of extensive logging, lumbering and lumber manufacturing operations.

The headquarters of District 1 of the United States Forest Service and the offices of three forest supervisors are located in Missoula. The boundaries of the Lolo National Forest, the Bitter Root National Forest and the Missoula National Forest are closely adjacent to the school and include more than 3,000,000 acres of government timber lands, under forestry management. Within 50 miles of the school are the boundaries of nine national forests and two other government timber reserves. Within 100 miles are the boundaries of seventeen national forests, three other government timber reserves and a national park.

### **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 not less than three months of each year in gaining practical experience in some form of woods work. The officials of the U. S. Forest Service and the lumber companies assist in placing the men for their first summer's work; their promotions through the succeeding vacations and positions after graduation are, therefore, entirely dependent on their own effort and ability.

It will be seen that this co-operative arrangement is most satisfactory; the student graduates as an experienced man and while gaining his experience, he has also earned money to pay for his college course.

### **Field Courses**

To a great extent the work of the School of Forestry is carried on in the field and forest. Classes in Silviculture and Forest Management utilize the various forest types of the neighboring national forests. Classes in log scaling work on the log decks and rollways at the local sawmills. Classes in timber cruising are held almost entirely within the forest. Classes in grazing uses of the forest and in range management study the local forest ranges and make frequent visits to the herds and flocks of nearby ranches. Instruction in forage plants is given in co-operation with specialists from the agricultural college. Use is made of nearby logging and lumber manufacturing operations by classes in lumbering and logging engineering.

Classes in forest policy and forest administration are given special opportunity for observation and investigative work in the offices of the District Forester of District No. 1 of the Forest Service and in the offices of the three forest supervisors which are located in Missoula. Experts and specialists in various lines of forestry are called upon freely for co-operation in the training which is given.

For a part of the spring quarter of each year, the School is moved to the shores of Flathead Lake in the Flathead National Forest where valuable use is made of forest and range types not found nearer the school. Various lumbering and wood using operations of that region are studied at this time.

### **Special Lecturers**

The regular faculty of the School of Forestry is assisted by a staff of 30 special lecturers who are experts and specialists in various lines of forestry and forest uses. An unusual opportunity for this is afforded by the location of the Forest Service offices and headquarters in Missoula, and by the lumbering and stock raising industries in western Montana. An especially valuable co-operation is offered by the officers of the Government Forest Service and men prominent in the stock raising and lumbering industries. The Agricultural College at Bozeman is organized as a part of the University of Montana and in the winter quarter of each year experts from that school and from the Government Agricultural Experiment Station are detailed to the School of Forestry as special lecturers in the courses in grazing and range management.

### **Costs of Attendance**

No tuition fees are charged. Registration and laboratory fees, membership in student associations including athletics and other extra curriculum activities, and fees for supplies and breakage in libraries and laboratories total about \$25 for each year. Books and school materials amount to from \$20 to \$40 per year and may be purchased through a co-operative students' organization. Traveling expenses for field studies will amount to \$20 for each year. So far as possible motor transportation is furnished by the school.

Student life within the school is simple and democratic. Students usually wear field clothes during school hours.

All forestry students who are in good standing are profitably employed during the summer quarter of three months each year. Many students are entirely self supporting during the school year. Any boy who is willing to work can earn a large part of his way through the University. Students should, however, have sufficient money to pay expenses for the first quarter.

### **Requirements for Admission**

The completion of a four years' preparatory or high school course is the standard for regular entrance to the School of Forestry in the University, 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 21 years of age, who are not high school graduates and who are not candidates for degrees, may be admitted without the usual entrance credits, as special students, if they are prepared to pursue successfully the special courses desired, subject to the general rules of the University.

Special students may acquire status as regular students and become candidates for degrees by complying with the rules applicable to such cases.

### **Requirements for Graduation**

In addition to the regular requirements of the University for Physical Education and Military Instruction with which regular students must comply, 192 credits are required for graduation with the degree of Bachelor of Science in Forestry. Of these, not to exceed five credits in any one year may be earned in approved summer 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 class room. 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 will require twelve quarters of attendance and extend normally over four years, giving the student three to four months for summer work each year. Students will be expected to gain practical experience by working for the Forest Service or with lumbering, and logging companies during the summer quarter. Students specializing in Forest Engineering are advised to take five years for the course, attending school three quarters each of the first two years, and but two quarters of each of the last three years during specialization.

The courses of training in the School of Forestry are arranged under four branches of forestry:

- I. Forest Policy and Administration.
- II. Silviculture and Forest Management.
- III. Forest Utilization.
- IV. Forest Engineering.

The first two years of work as shown in the Schedule of Courses include fundamental courses in Mathematics, English, natural sciences, and elementary studies in subjects of general forestry.

**CURRICULUM OF SCHOOL OF FORESTRY**

## Undergraduate Courses in Forestry and Forest Engineering.

**FIRST YEAR**

Botany .....	4	Botany .....	4	Botany .....	4
Mathematics .....	5	Mathematics .....	5	Mathematics .....	4
Introduction to For- estry .....	2	Introduction to Forestry .....	3	Forest History.....	4
Surveying & Mapping	4	Surveying & Mapping	4	Surveying & Mapping	4
Military Drill .....	1	Military Drill .....	1	Military Drill .....	1
Physical Education..	1	Physical Education..	1	Physical Education..	1
College Education....	1				

**SECOND YEAR**

Fire Protection .....	5	Forest Zoology.....	5	Geology .....	4
Topographic Survey- ing & Mapping.....	4	Improvement Construction .....	3	Topographic Survey- ing & Mapping....	5
Scaling & Cruising..	3	Lumbering .....	4	Forest Measurements	3
English .....	5	English .....	4	English .....	4
Military Drill.....	1	Military Drill.....	1	Military Drill.....	1
Physical Education..	1	Physical Education..	1	Physical Education..	1

**JUNIOR AND SENIOR REQUIRED**

Silviculture .....	4	Silviculture .....	4	Silviculture .....	4
Forest Management	4	Forest Management	4	Forest Management	4

**ELECTIVES IN FOREST ENGINEERING**

Highways and Bridges .....	3	Highways and Bridges .....	3	Highways and Bridges .....	3
Forest Improvements	3	Strength of Materials	3	Logging Railroads...	3
		Slide Rule.....	1	Forest Mapping.....	2

**ELECTIVES IN FORESTRY**

Dendrology .....	4	Dendrology .....	4	Silvics .....	4
Forest Policy.....	4	Forest Law.....	4	Forest Admin- istration .....	4
Grazing Management	4	Grazing Management	4	Grazing Management	4
Lumbering .....	4	Logging Engineering	4	Logging Engineering	4
Wood Technology....	4	Forest Products .....	4	Forest Appraisals....	4
				Economics of Forestry .....	3

**Electives in Other Schools and Departments**

In addition to the above courses, students in the third and fourth years may elect not to exceed 15 credits each year in other schools and departments 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 College Education and English requirements are the same as the general University requirement.

**DESCRIPTION OF COURSES****I. Forest Policy and Administration**

**11a. Introduction to 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. Introduction to Forestry.** 1 Q. Winter. 3 cr. Forestry as a science. The art of forestry. Forestry as a profession. Definition of terms used in forestry. Mr. Skeels.

**11c. History of Forestry.** 1 Q. Spring. 4 cr. Freshman. The development of forestry practice in the civilized nations of the world. Present status among the European nations. The forestry movement in the United States. Forestry legislation. Development of forestry practice by states. Mr. Spaulding.

**15a. Woodcraft.** 1 Q. Autumn. No credit. Given one or more quarters each year subject to demand of class. An elementary study of dendrological and silvical characteristics of forest trees. One lecture each week. Occasional field trips. Mr. Fenska.

**15b. Woodcraft.** 1 Q. Spring. 2 cr. A course offered for special students and for the training of scout masters, camp directors and licensed guides. Outfitting for the field, clothing and personal equipment, shelters, tools and camp equipment, utensils and foods, camps, campfires, camp cookery, first aid, forest travel, emergency foods and edible plants, preservation of camp trophies, the compass, sporting fire arms, fishing tackle, general qualities of woodmanship. Three lectures each week with occasional field trips. Mr. Skeels.

**12. Economics of Forestry.** 1 Q. Spring. 3 cr. Senior. A study of forest problems from an economic standpoint, the relation of the state to the forest resources, forest requirements of the nation, economic results of forestry practice. Text: Fernow's Economics, Public Documents. Mr. Skeels.

**13a. Forest Policy.** 1 Q. Autumn. 4 cr. Junior. An advanced review of forest economics. The subject is handled largely as recommended in the report of the Conference of Forest Schools. There is also included a study of the fundamentals of the forest laws of the various states. Texts: Fernow, Economics of Forestry; Kinney, Forest Law in America, and Essentials of American Timber Law; Schenck, Forest Policy. Mr. Spaulding.

**13b. Forest Law.** 1 Q. Winter. 4 cr. A continuation of the previous course. Mr. Spaulding.

**13c. Forest Administration.** 1 Q. Spring. 4 cr. Public and private forest organization, the handling of forest 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. Spaulding.

## II. Silviculture and Forest Management

**21. Fire Protection.** 1 Q. Autumn. 5 cr. 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. Co-operation. Texts: Fire fighting manuals, Western Forestry and Conservation Association and Government publications. Mr. Spaulding.

**22. Silvics.** 1 Q. Spring. 4 cr. Studies of life habits of trees important in American forestry, their behavior in forests. Mr. Skeels.

**23a. Silviculture.** 1 Q. Autumn. 4 cr. Forest distribution. Factors determining site quality, effect of forests on climate and water-flow. Development and growth of trees, forms of forests, and systems of silvicultural treatment. Choice of species. Systems and methods of improvement cuttings. Primary objects of silviculture. Reference: Hawley's Practice of Forestry and Graves' Principles of Handling Woodlands. Mr. Fenska.

**23b. Silviculture.** 1 Q. Winter. 4 cr. Methods of reproducing trees and stands. Afforestation and reforestation and the factors influencing each. Natural and artificial reproduction. Forest seed; properties, characteristics, collection, storage, testing, etc. Direct seeding, nursery practice, methods of field planting. Reference: Toumey's Seeding and Planting in the Practice of Forestry. Mr. Fenska.

**23c. Silviculture.** 1 Q. Spring. 4 cr. Forest types of the principle forest regions of the U. S.: their characteristics, principles of development, and methods of utilization under forest management. Lectures and reference reading. Mr. Fenska.

**26a. Forest Management.** 1 Q. Autumn. 4 cr. Methods of making an inventory of the forest: the collection and tabulation of data, preparation of maps, and other work preliminary to working plans. The normal forest and its relation to the working plan. Reference: Roth's Forest Regulation. Mr. Fenska.

**26b. Forest Management.** 1 Q. Winter. 4 cr. This course covers forest valuation: definition of values, nature of forest capital, interest rates on forest capital, formulae of interest calculation, methods of determining values, statistics, financial effects of management as related to forest valuation, methods of measuring profits of forestry. Reference: Roth's Forest Valuation. Mr. Fenska.

**26c. Forest Management.** 1 Q. Spring. 4 cr. This course includes determination of management: choice of species, of silvicultural treatment, of rotation and regulation, preparation of felling, planting, administration and improvement plans. Reference: Becknagel's Forest Working Plans. Mr. Fenska.

**29. Forest Mensuration.** 1 Q. Spring. 4 cr. This course deals with methods of more precise measurements and determinations for use in scientific work and as the basis for forest management. Construction and use of volume tables and yield tables. Methods of measuring growth in diameter, height and volume. Ratios and relations of forest

products in different commercial units. Reference: Graves' Forest Mensuration. Mr. Fenska.

### III. Forest Utilization.

**31a. Wood Technology.** 1 Q. Autumn. 4 cr. Identification of the economic woods of the United States by their structural characteristics. The school is supplied with an extensive collection of American woods in the form of hand specimens affording the student opportunity to become familiar with the appearance of commercial woods. Reference: Record's Economic Woods of the United States. Mr. Fenska.

**31b. Wood Technology.** 1 Q. Winter. 2 cr. A microscopic study of the structure and the identification of the commercial woods of the United States. Laboratory work with occasional lectures. Mr. Fenska.

**32. Forest Products.** 1 Q. Winter. 4 cr. A study of forest products such as naval stores, wood distillation, potash, paper, paper and pulp, maple sugar, dye woods, extraction of tannic acid, oils, extracts, etc., from bark, wood and leaves and other forest "by-products," study of the utilization of various woods in the different wood-using industries and their adaptability for specific purposes. Text: Brown's Forest Products. Mr. Fenska.

**33. Lumbering.** 1 Q. Winter. 4 cr. Study of the lumber industry in different regions of the United States with special reference to the western states. Different types of sawmills and equipment: methods of manufacture, output, grades, lumber yards, dry kilns, etc. Cost of production, prices, and markets. References: Kellogg's Lumber and Its Uses, and Bryant's Logging. Mr. Fenska.

**34. Lumbering.** 1 Q. Autumn. 4 cr. Economic phases of the lumbering industry. Costs of production, prices. Markets and transportation. Investments and profits. Mr. Skeels.

**35. Log Scaling and Timber Cruising.** 1 Q. Autumn. 4 cr. Origin and theory of scale rules. Commercial measurements of logs and other forest products. Methods of making deductions for defects affecting quantity of lumber. Practice in log scaling. Commercial measurements of standing timber, method of timber surveys, forest reconnaissance and practical cruising. Determination of cull factors. Relation of log size classes, quality and defects to lumber grades and mill over-run. Cruiser's report. Graves' Forest Mensuration. One hour lecture and four hours field work per week. Mr. Fenska.

**36a. Logging Engineering.** 1 Q. Winter. 4 cr. The application of engineering principles to logging operations. Location and operations of timber slides, log flumes, logging roads, transportation routes, log driving and stream improvements. Factors of efficiency; sources of loss and waste, and analysis of operative cost factors. Use of topographical maps. Working plans for logging operations. Mr. Skeels.

**36b. Logging Engineering.** 1 Q. Spring. 4 cr. A continuation of course 36a. Mr. Skeels.

**38. Forest Appraisals.** 1 Q. Spring. 4 cr. A study of present commercial forest values. Uses of land and forest. Land values, uses of forest cover. Forest classifications. Problems of finance in the lumber industry. Factors of investment, depreciation, maintenance and operation. Salvage of investments, wrecking values, residual values. Relation of production costs, selling values, and profits to forest values. A consideration of practical methods of determining stumpage values. Mr. Skeels.

### Grazing

**39a. Grazing Management.** 1 Q. Autumn. 4 cr. Junior or Senior. The course covers a study of the types and breeds of livestock found in the National Forests: the theory and practice of breeding; feeds and feeding. The common diseases and methods of treatment are briefly discussed. Mr. Spaulding.

**39b. Grazing Management.** 1 Q. Winter. 4 cr. Junior or Senior. The work covers the choice of type and breed of animals, choice of method of handling stock on the range. Then plans for improvements, for breeding practice, for handling stock on the range and for administration are discussed. Mr. Spaulding.

**39c. Grazing Management.** 1 Q. Spring. 4 cr. Junior or Senior. 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, 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. Mr. Spaulding.

### IV. Forest Engineering.

**41a. Surveying.** 1 Q. Autumn. 2 cr. Freshman. Instruction covers United States public land survey methods: retracements; subdivision of sections; traverse board survey; use and care of the surveyor's compass; computation of closure and area by latitude and departure and double meridian distance. One hour lecture and six hours field practice per week. Text: Theory and Practice of Surveying, Vol. 1. Breed and Hosmer. Mr. Kitt.

**41b. Surveying.** 1 Q. Winter. 2 cr. Freshman. Differential and profile leveling; care and adjustment of the Wye and Dumpy level. One hour lecture and five hours field practice. Mr. Kitt.

**41c. Surveying.** 1 Q. Spring. 2 cr. Freshman. Transit and tape surveys. Running of control for topographic work. Triangulation; surveys of ranger stations and homesteads. One hour lecture and five hours field practice. Mr. Kitt.

**42a. Mapping.** 1 Q. Autumn. 2 cr. Freshman. Elementary map making and lettering; conventional signs for maps used in forest work. Map construction and use. Four hours practice in drawing room per week. Mr. Kitt.

**42b. Mapping.** 1 Q. Winter. 2 cr. Freshman. Practice in plotting and compiling maps from field notes of logging unit and homestead surveys. Plotting profiles and establishing grade. Four hours practice in drawing room per week. Mr. Kitt.

**42c. Mapping.** 1 Q. Spring. 2 cr. Freshman. Compiling of maps from individual notes taken in the field by the surveying class. Determination of area by planimeter; use of lettering scale for map titles; map reproduction methods, blue printing, white printing and photostating. Four hours practice in drawing room per week. Mr. Kitt.

**43. Topographic Surveying.** 2 Q. Autumn, spring. Continuous. 5 cr. Sophomore. Aneroid and pacing method; the transit and stadia; trigonometric levelling; the plane table with telescopic alidade; Abney level method. A field collection of data for preparation of maps to be used in the planning of logging operations; making of field maps for Grazing Reconnaissance. Abney method of mapping with special application to the surveying of timbered regions. Five hours field practice per week; supplemented by lectures and recitations. Observations for the meridian, solar and stellar. Text: Breed and Hosmer, Higher Surveying. Mr. Lansing.

**44. Topographic Mapping.** 2 Q. Autumn, spring. Continuous. 4 cr. Sophomore. Practice in the production of finished topographic maps from field work by the topographic surveying class; make up of base maps and compilation of data; study of data to be included in fire control maps; grazing; type and stand maps; timber survey maps. Reference: Wilson, Topographic Surveying. Mr. Lansing.

**45a. Highways and Bridges.** Autumn. 3 cr. Reconnaissance, preliminary location and location of new roads for forest improvement and logging. Relocation of old roads for alignment, adverse grades and exposure. Complete design and estimate. Detail sheets of drainage, retaining walls, culverts, and other highway structures. Lectures on construction and maintenance.

A study of the principles underlying the design of bridge trusses as used in highway work: graphic analysis to determine dead load, live load, snow load and wind load stresses. References: Harger and Bonney's Highway Engineer's Handbook, Ketcham's Design of Highway Bridges.

**45b. Highways and Bridges.** Winter. 3 cr. Continuing 45a.

**45c. Highways and Bridges.** Spring. 3 cr. Continuing 45a and 45b.

**46. Forest Improvements.** 1 Q. Autumn. 3 cr. Sophomore. Trail location; a field study of trail problems and their solution. Field data for design and estimate of various forest improvements. Continued in course 53. Mr. Lansing.

**47. Logging Railroads.** 1 Q. Spring. 3 cr. Junior. Reconnaissance; preliminary surveys and location; the laying out of logging railroads by practical methods, Abney level and tape, transit level and tape; topography and cross-sectioning; slope stakes; trestles and culverts; cost estimates; railroad drafting. Reference: Searles and Ides, *Field Engineering*; Raymond, *Railroad Engineering*; Carhart, *Field Book for Civil Engineers*. Mr. Kitt.

**48. Strength of Materials.** 1 Q. Winter. 3 cr. A mathematical course dealing with the properties of materials used in engineering construction; a study of iron, steel and timber under compression, tension and shear; the theory of beams; deformations and elasticity: plain and reinforced concrete. Text book: Merriam's *Strength of Materials*. Mr. Lansing.

**51. The Slide Rule.** (Subject to demand for class.) Study and practice with the various makes of slide rules as an aid to rapid mathematical calculations. The Mannheim, Stadia, Polyphase and Log Rules, their theory and use. Reference: Cox's *Complete Manual on the Slide Rule*. Mr. Lansing.

**52. Forest Mapping.** 1 Q. Spring. 2 cr. Junior. Practice in making base maps; methods of building small scale maps of large areas. Map projection in detail with the following projections: Orthographic, Sterographic, Mercators, Rectangular; Simple conic; Boones and Polyconic, explaining their respective uses in the make-up of forest maps. Mr. Lansing.

**53. Improvement Construction.** 1 Q. Winter. 3 cr. Senior. A continuation of course 46. Design and estimates for various buildings in logging camps and ranger stations; recreational, grazing, protection, administration and logging improvements. Study of telephone construction and maintenance; radio telephone and telegraph. Mr. Lansing.

### ENGLISH, MATHEMATICS, AND SCIENCES

Required and elective courses in English, Mathematics and Natural Sciences are given in the departments of the College of Arts and Sciences of the University.

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### SHORT COURSE FOR FOREST RANGERS

The Ranger School, or special course for forest rangers, begins each year on the first Wednesday in January and continues for twelve weeks.

It is the purpose of this school to improve the training of forest rangers and other forest officers. Men who have either a high school

training or some practical experience in forestry work are prepared in this course to pass the civil service examination for forest ranger.

During the course of the Ranger School opportunity is also offered for specialization or short course training in lumbering and logging, scaling and cruising, surveying and mapping, stream gauging, highway and bridge construction and grazing.

The work of the Ranger School is carried on with helpful co-operation from the United States Forest Service. Experts in various branches of forest service work are detailed under authorization of the secretary of agriculture as special lecturers in the school. Other state and government officials and experts in the employ of lumber companies assist in the training. Special lectures in grazing are given by the state veterinarian.

Students in the Ranger School who are just beginning their forestry training usually pursue the following courses of training:

Surveying and Mapping, 4 cr.; Scaling and Cruising, 2 cr.; Fire Protection, 3 cr.; Forest Improvement, 3 cr.; Forest Administration, 3 cr.; Lumbering, 2 cr.; Botany and Silviculture, 3 cr.; Grazing, 3 cr.; General Forestry, 1 cr.

More advanced students and most forest rangers who attend the school elect short courses of training from the following schedule: Advanced Topographic Surveying and Mapping, 2 cr.; Hydraulics, 1 cr.; Logging Engineering, 3 cr.; Geology, 3 cr.; Insect Control, 3 cr.; Tree Diseases, 3 cr.; Forest Appraisals, 3 cr.; Grazing, 3 cr.; First Aid, Camp Surgery and Medicines, 1 cr.

### Expenses of the Ranger School

Expenses for Ranger School students have been made as little as possible. Entrants who own drawing instruments should bring them. Forest officers who attend the school should correspond with the dean of the school about certain book and forest equipment which may be brought from their forests.

The cost to the average Ranger School student is about as follows:	
Registration fee .....	\$ 3.50
Student Activities fee .....	3.00
Library Deposit (subject to refund).....	3.00
Laboratory fees .....	1.00
Books and Notebooks .....	10.00
Board and Room, 12 weeks.....	85.00
Forest Club dues and entertainments.....	5.00
	<hr/>
	\$110.50
Add for drawing instruments if purchased.....	12.50
	<hr/>
	\$123.00

# School of Journalism

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PROFESSOR, ARTHUR L. STONE (Dean). ASSISTANT PROFESSOR, W. E. CHRISTENSEN.

Practical training in the work of newspaper making is the purpose of the School of Journalism of the State University of Montana. Technical training is combined with courses in the College of Arts and Sciences, that the graduates of the school may obtain preparation as broad and comprehensible as possible.

The vocational 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 endeavor and practice. No student leaves the school with the idea that he is ready to assume at once editorial or managerial duties.

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.

Following the work in newsgathering and newswriting 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.

There are no textbooks used in the course; the student studies the newspaper. The school receives the leading daily newspapers of the country and these are given careful and thorough study. In the junior and senior years, the student studies foreign newspapers. The school has the nucleus of 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" which is developing into a valuable reference file. Special emphasis is placed upon the study of current events.

The Associated Press, the United Press and the International News Service donate a daily copy of their "flimsy," which is used as the basis of instruction in editing and head-writing. The Mergenthaler Linotype company, the American Typefounders' company, The Missoulian Publishing company 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 members of the



association are contributing material which is the beginning of the school's much-desired laboratory. The school furnishes to the newspapers of the state a weekly news service from the State University.

The state press association has appointed an advisory board for the School of Journalism. The members of this board are: O. S. Warden, Great Falls Tribune; J. H. Durston, Butte Daily Post; Tom Stout, Lewistown Democrat-News; M. J. Hutchens, Missoulian; J. D. Scanlan, Miles City Star.

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 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 college period. It calls for 70 credits in journalism subjects and 116 credits in prescribed courses in the College of Arts and Sciences. Students in the School of Journalism are subject to the general University requirements in physical education and in military drill. Elective courses are offered in Newspaper Photography, Cartooning and Short Story Writing. The four-year schedule of the course in journalism leading to the degree of Bachelor of Arts in Journalism follows:

#### FRESHMAN YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Journalism 11abc .....	5	5	5
English 11a .....	5	---	---
Science .....	4-5	4-5	4-5
Modern Language .....	---	5	5
Military Drill .....	1	1	1
Physical Education .....	1	1	1
College Education .....	1	---	---

#### SOPHOMORE YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Journalism 21abc .....	5	5	5
Modern Language .....	5	---	---
Contemporary Literature 78ab .....	---	4	4
North American Colonies 14 .....	---	---	5
Economics 14 .....	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 25 .....	3	3	3
History of Journalism 27 .....	2	2	2
Journalism Laboratory 39 .....	3	3	3
Sociology .....	4	4	---
Economics .....	---	---	4
History or English Elective .....	3	3	3
Geology 16 .....	3	---	---
Elective .....	---	2	2

## SENIOR YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
The Newspaper 43 .....	2	2	2
Journalism Laboratory 41 .....	3	3	3
Seminar 35 .....	2	2	2
Sociology .....	3	3	3
Political Science or History Elective.....	3	3	3
English Elective .....	3	3	3

Course 42, Field Work, offers an opportunity for earning 10 professional credits.

Except in case of conflicts in schedule, unless 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.

## DESCRIPTION OF COURSES

## First Year

**11abc. Elements of Journalism.** 3 Q. Autumn, winter, spring. 5 cr. each quarter. Open to all students. Reporting. What is news? Methods of gathering and writing news. Study of news sources and services. Considerable practice with assignments. One period a week is devoted to current events. (Given also in the summer quarter.) Mr. Stone.

## Second Year

**21abc. Advanced Reporting and Editing.** 3 Q. Autumn, winter, spring. 5 cr. each quarter. Prerequisite, course 11. 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, copy-reading. Head writing. Studies in newspaper usage. Evaluation of news. Study of the news associations and the transmission of news. Makeup. Mr. Christensen.

## Third Year

**25abc. Editorial Writing.** 3 Q. Autumn, winter, spring. 3 cr. each quarter. Prerequisite, courses 11 and 21. Preparation and presentation of editorial interpretation and comment. The functions of the editorial page. Mr. Stone.

**27abc. History and Principles of Journalism.** 3 Q. Autumn, winter, spring. 2 cr. each quarter. Open to all students. History of newspaper making. Studies of the careers of great editors and the history of great newspapers. Aims of journalism. Journalism as related to the great political, economic and social movements of history. Contemporary newspaper history. Mr. Christensen.

**39abc. Laboratory in Journalism.** 3 Q. Autumn, winter, spring.

3 cr. each quarter. Prerequisite, courses 11 and 21. Practical drill in reporting and editing. Mr. Stone, Mr. Christensen.

**31. The Kaimin.** The editorship of the student newspaper belongs to the junior class of the School of Journalism, by the constitution of the student organization. The number of credits depends upon the quality of the work done.

**33. The Sentinel.** The editorship of the annual carries with it journalism credits, according to the manner in which the work is performed.

#### Fourth Year

**35abc. Seminar in Journalism.** 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, courses 11, 21 and 39. Mr. Stone, Mr. Christensen.

**41abc. Laboratory in Journalism.** 3 Q. Autumn, winter, spring. 3 cr. each quarter. Prerequisite, course 39. Continuation of course 39. Mr. Stone, Mr. Christensen.

**43abc. The Newspaper.** 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, courses 11 and 21. Advanced advertising, organization of the newspaper office, circulation, the mechanics of newspaper making, and the relation of various departments.

#### ELECTIVE COURSES

**33. Short Story.** 1 Q. Winter. 2 cr. Open to all upperclassmen and to underclassmen who have permission from the instructor. Mr. Christensen.

**42. Field Work.** 1 Q. Autumn. Winter. Spring. Summer. 10 cr. Open to juniors or seniors, subject to approval of Dean of Journalism. Students registering for this course will be assigned to work in an approved newspaper office for one quarter. They will receive pay for their work from the newspaper. There may be no collateral work for the quarter in which this course is taken.

**A25. Illustration.** 1 Q. Spring. 2 cr. Prerequisite, Fine Arts 21. Students do practical illustrating. Special attention to papers and magazines. Special attention to pictorial composition. Mr. Schwalm.

**A27. Cartooning.** 1 Q. Autumn. 2 cr. Prerequisite, Fine Arts 23. A course in practical training; work is identical with that done on a daily newspaper. Mr. Schwalm.

**34. Newspaper Photography.** Open to seniors in Journalism. Time and credits arranged. Mr. Stone.

# School of Law

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PROFESSORS, C. W. LEAPHART (Dean), WALTER L. POPE, A. N. WHITLOCK (Dixon Professor of Law), LEWIS M. SIMES, ARTHUR FISHER.

The School of Law occupies quarters in the library building in the University where the law library reading room, class rooms and offices of the faculty are located. The school has a good working library known as the William Wirt Dixon Law Library, composed of about nine thousand volumes, including the Reporter System, Digests and all leading encyclopedias, digests and all leading collections of cases, and, in addition, all the State Reports up to the Reporter System, except those of South Carolina, Arkansas, and Minnesota. A recent increase in the library has been made as the result of a generous gift in the will of Mrs. W. W. Dixon and the gift of more than fourteen hundred volumes by Judge John J. McHatton of Butte.

## REQUIREMENTS FOR ADMISSION

Students may register in the School of Law either in regular or special standing. Regular students who are candidates for the degree of Bachelor of Laws (LL.B.) must present credentials showing that they have completed substantially one-half or more of the work required for the degree of B.A. or B.S. in the University of Montana, or two years' work in some other college or university whose credits are recognized by the University of Montana.

Special students may be admitted provided they are 21 years of age, or more, and have diplomas from accredited high schools, or are qualified to enter the freshman class of the University of Montana. Students are strongly urged to complete the requirements for admission as regular students.

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 upon examination satisfactory to the law faculty.

## GRADUATION AND DEGREES

For the degree of LL.B. regular students are required to complete three years of law with a total of 126 credit hours, including all required courses. Special students, who have satisfied these requirements and maintained an average grade of "B" throughout their entire course, may, upon recommendation of the law faculty, be granted this degree. All other special students who have satisfactorily

completed the course will be given a certificate to that effect. In no case will a degree or certificate 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.

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.

### FEES AND EXPENSES

No tuition fee is charged in the School of Law. The regular registration fee of \$10 and the Associated Students fee of \$10 a year must be paid by every student. A library deposit of \$3 per year is required. Regularly registered students in the School of Law may take any course in the College of Arts and Sciences without additional cost, except the payment of laboratory fees.

The cost of books in the School of Law will average about \$25 a year.

### METHOD OF INSTRUCTION

The case system of instruction is generally 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.

### ADMISSION TO PRACTICE IN MONTANA

Students who have successfully completed the regular law course and received the certificate or degree, may in the discretion of the supreme court, of Montana be admitted to practice in the courts of Montana without further examination.

### SUMMER SESSION

The summer session of the School of Law will last for six weeks. Announcement of the courses to be given will be made in the Summer School Bulletin.

### 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, except that in addition, within the discretion of the Dean, a student may be allowed to take an examination to remove a condi-

tion 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 or certificate. Aside from the two courses mentioned, all other courses in the second and third year 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.

### CURRICULUM

#### FIRST YEAR

	1st Quarter	2nd Quarter	3rd Quarter
Contracts .....	3	3	3
Property I .....	3	3	
Torts .....	3	3	
Criminal Law and Procedure.....	4	2	
Principles of Liability.....			5
Forms of Actions.....		3	
Use of Law Books.....	1		
Agency .....			5

#### SECOND AND THIRD YEARS

	1st Quarter	2nd Quarter	3rd Quarter
Pleading .....	2	2	2
Equity .....	2	2	2
Evidence .....	3	3	3
Irrigation Law .....		3	
Wills and Administration.....		3	
**Mining Law .....			3
Private Corporations .....	5		
Trusts .....	2	2	2
Sales .....	3	3	
Practice Court .....	2	2	2
Appellate Practice .....	2	2	2
Conflict of Laws .....	2	2	2
Property II .....	3		
Public Service Corps.....			3
**Bills and Notes.....	3	2	
**Partnership .....			3
*Quasi-Contracts .....			3
Constitutional .....	3	3	
*Suretyship and Mortgages.....	2	2	2
**Damages .....	4		

Courses marked \*\* will not be given in 1921-1922.

Courses marked \* in 1921-1922, but not in 1922-1923.

## DESCRIPTION OF COURSES

### First Year

**Contracts.** Offer and acceptance; consideration; contracts under seal; 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. Vols. I and II. Mr. Leaphart.

**Property I.** Acquisition of title to personal property by statute of limitations, accession, confusion 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. Simes.

**Torts.** Assault and battery; 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. Simes.

**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; doctrines of undisclosed principal; delegation by an agent; ratification; termination of the agency. Wambaugh's Cases on Agency. Mr. Pope.

**Principles of Liability.** Nature of law. The law of approximate cause as found in torts; criminal law; damages; insurance; contracts. Liability in agency; for acts of animals; under "civil damages" and Workmen's Compensation Acts. Permitted acts: general principle of justification and excuse. Beal's Cases on Legal Liability. (2nd edition.) Mr. Fisher.

**Criminal Law.** 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; arraignment and plea; preliminary hearing and grand jury; indictment and information; order of trial; judgment and punishment. Emphasis on Penal Code of Montana. Mikell's Cases on Criminal Law. Mr. Fisher.

**Forms of Action.** A study of the various forms of action as employed in common law. Pleading; including trespass, ejectment, case, trover, replevin, and special and general assumpsit. Each is considered

with reference to the scope of the action, the necessary allegations, and the defenses. Cook and Hinton's cases on Common Law Pleading. Mr. Simes.

**Use of Law Books.** How to find the law; use of the law library with special attention given to Montana statutes. State Reports and Digest; 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 brief; presentation of questions of law to court orally and with brief. No book is used. Mr. Whitlock.

### Second and Third Years

**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; construction of pleadings; splitting and joinder of causes of action; answers; demurrers, replies; various motions; bills of particulars; amendment and aider. Sutherland's Cases and Code. Mr. Simes.

**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 bargains; mutuality of remedies, and want of mutuality; relief for and against third parties; bills for an account, specific reparation and prevention of torts. Ames's Cases in Equity Jurisdiction. Vol. I. Mr. Leaphart.

**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 inception of bills and notes, acceptance, delivery, consideration, negotiation, rights and liabilities of the various parties, presentment, dishonor, and discharge are taken up. Smith & Moore, Cases on Bills and Notes. Mr. Simes.

**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. Wigmore's Cases on Evidence (2d Ed). 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 the water 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, the execution of wills; revocation; administration of estates, including payment of legacies and distributive shares; probate procedure in Montana. Costigan's Cases on Wills and Montana Code. Mr. Simes.

**Property II.** Form of conveyance: Conveyances at common law, under the statute of uses, and under modern statutes; execution and delivery of deeds; recording acts and abstracts of title; description of property granted; covenants for title; creation of easements; original acquisition; adverse possession and prescription; practical exercises in conveyancing and examination of titles. Aigler's Cases on Titles. Mr. Simes.

**Sales.** Subject matter at law and equity; relation of possession and payment to title; presumptions as to title; conditional sales; bills of lading; fraud, retention of possession; factors and factors' acts; sellers' rights as to recovery of price, liens and stoppage in transitu; buyers' rights, including inspection and various warranties; statute of frauds. Williston's Cases on Sales. Mr. Fisher.

**Practice.** 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 judgment, 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 na-

ture, obligation and effect of judgments. Beale's Cases on Conflict of Laws. (1903 3 Vol. Ed.) Mr. Fisher.

**Private Corporations.** Corporations distinguished from partnerships and joint stock companies; disregarding the corporate fiction; formations 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.

**Mining Law.** Lodes; placers; locators; discovery; location; tunnel slides and blind veins; conditions of retention of claims; sub-surface rights; adverse claims; patents; oil, gas, and other mining leases; tenancies in common and mining partnership; rights of access; rights of subjacent and lateral support. Costigan's Cases on Mining Law. Mr. Pope.

**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's Cases on Damages. (2nd Ed.) Mr. Pope.

**Public Service Companies.** The development of the law of public callings, and the rights and obligations of the various public services, such as common carriers of passengers and of goods, innkeepers, telephone, telegraph, gas, electric and other companies; regulation and control of the public callings under the Interstate Commerce Act and by the State of Montana. Case book to be announced. Mr. Fisher.

**Constitutional Law.** Study of federal and Montana Constitutions. 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: foreign relations; Indians; aliens; regulation of commerce; jurisdiction of federal courts. Hall's Cases on Constitutional Law. Mr. Fisher.

**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 curtesy; limitation on redemption; clogging the equity; assignment of mortgages; marshalling the assets.

Ames's Cases on Suretyship. Wyman's Cases on Mortgages. Mr. Leaphart.

**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 trustee as to investments. Scott's Cases on Trusts. Mr. Leaphart.

**Quasi-Contracts.** The nature of Quasi-Contracts; benefits conferred by mistake; benefits conferred under part performance of a contract; benefits conferred voluntarily and under compulsion; waiver of tort. Thurston's Cases on Quasi-Contracts. Mr. Simes.

**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 partnership. Mechem's Cases on Partnership. (3rd Ed.) Mr. Simes.

# School of Music

PROFESSORS, DeLoss Smith (Dean), Josephine Swenson, A. Herman Weisberg. ASSISTANT PROFESSOR, Harriet Gardner. INSTRUCTOR, Bernice Berry. ORGANIST AND ACCOMPANIST, Mrs. DeLoss Smith.

Pupils are accepted for private lessons in Music without limitation as to age and without the usual academic entrance requirements.

Twenty-seven music credits will be accepted by the College of Arts and Science toward the Bachelor of Arts degree.

Those who do major work in this department and who are candidates for the degree of Bachelor of Music must have completed the entrance requirements of the University and take an examination in applied music and theoretical subjects before beginning the course.

## DESCRIPTION OF COURSES

### Freshman Year

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Voice, Piano or Violin .....	2	2	2
Sight Singing and Ear Training, 27a, 27b, 27c....	3	3	3
Fundamentals, 17 .....	2	---	---
Harmony, 19a .....	---	2	---
Harmony and Counterpoint, 19b.....	---	---	2
English, 11a .....	---	---	5
French .....	5	5	---
Education 10 .....	1	---	---
Physical Education .....	1	1	1
Electives .....	---	4	4
	14	17	17

### Sophomore Year

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Voice, Piano or Violin .....	2	2	2
Harmony and Counterpoint, 21a, 21b, 21c.....	2	2	2
History of Music, 31a, 31b, 31c.....	3	3	2
Modern Language .....	5	5	---
English .....	---	4	4
Physical Education .....	1	1	1
Electives .....	4	---	4
	17	17	15

### Junior Year

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Voice, Piano or Violin .....	2	2	2
Analysis and Appreciation of Music 35a, 35b, 35c	2	2	2
Forms and Composition 23a, 23b, 23c.....	2	2	2
Modern Language .....	---	5	5
Electives .....	5	5	5
	14	16	16

**Senior Year**

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Voice, Piano or Violin .....	2	2	2
Forms and Composition 25a, 25b, 25c.....	2	2	2
Thesis or Recital .....	3	---	---
Ensemble Singing or Playing .....	2	2	2
English or French .....	---	4	4
Public Speaking .....	3	3	2
Electives .....	4	4	5
	16	17	17

Voice students are subject to the following exceptions: First, two years of pianoforte study are required; second, year of pianoforte study is substituted for elective.

Violin students are required to take two years of pianoforte study and may substitute those credits for electives.

**PUBLIC SCHOOL MUSIC**

(Entrance requirements same as Bachelor of Music course.)

This course is for supervisors and teachers of music in the public schools. It covers a period of two years. Those who desire may add two more years from the Bachelor of Music course and receive a degree.

Those completing the two-year course will receive a Supervisor of Music certificate and will be recommended by the State Superintendent of instruction to receive a special certificate to teach music in the schools of the state.

Students will do their observation work in the city schools of Missoula.

**APPLIED MUSIC (VOICE, VIOLIN OR PIANO)****First Year**

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Voice and Piano .....	2	2	2
Fundamentals, 17 .....	2	---	---
Harmony, 19a .....	---	2	---
Harmony and Counterpoint, 19b.....	---	3	2
Sight Singing and Ear Training, 27a, 27b, 27c	3	3	3
English, 11a .....	---	4	---
Education 10 .....	1	---	---
Physical Education .....	1	1	1
Electives .....	5	4	8
	14	16	16

**Second Year**

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Voice, Piano or Violin .....	2	2	2
Harmony and Counterpoint, 21a, 21b, 21c.....	2	2	2
Methods, 33a, 33b, 33c .....	2	3	3
History of Music, 31a, 31b, 31c.....	3	3	2
Analysis and Appreciation of Music 35a, 35b, 35c	2	2	2
General Psychology .....	5	---	---
Principles of Education .....	---	3	---
Physical Education .....	1	1	1
Electives .....	---	---	4
	17	16	16

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.

### THEORETICAL SUBJECTS

**11. Voice.** 1 Q. 1 or 2 cr. Individual instruction. Miss Gardner, Mr. Smith.

**12. Voice.** 1 Q. 1 or 2 cr. One hour class lesson. Four in each class. Miss Gardner, Mr. Smith.

**13. Piano or Organ.** 1 Q. 1 or 2 cr. Miss Berry, Mrs. Smith, Miss Swenson.

**15. Violin.** 1 Q. 1 or 2 cr. Mr. Weisberg.

**17. Fundamentals.** 1 Q. 2 cr. Open to all matriculated students. Mr. Weisberg.

**19a. Harmony.** 1 Q. Winter. 2 cr. Mr. Weisberg.

**19b. Harmony and Counterpoint.** 1 Q. Spring. 2 cr. Mr. Weisberg.

**21a. Harmony and Counterpoint.** 1 Q. Autumn. 2 cr. Mr. Weisberg.

**21b. Harmony and Counterpoint.** 1 Q. Winter. 2 cr. Mr. Weisberg.

**21c. Harmony and Counterpoint.** 1 Q. Spring. 2 cr. Mr. Weisberg.

**23a. Forms and Composition.** 1 Q. Autumn. 2 cr. Mr. Weisberg.

**23b. Forms and Composition.** 1 Q. Winter. 2 cr. Mr. Weisberg.

**23c. Forms and Composition.** 1 Q. Spring. 2 cr. Mr. Weisberg.

**25a. Forms and Composition.** 1 Q. Autumn. 2 cr. Mr. Weisberg.

**25b. Forms and Composition.** 1 Q. Winter. 2 cr. Mr. Weisberg.

**25c. Forms and Composition.** 1 Q. Spring. 2 cr. Mr. Weisberg.

In 23a to 25c the pupil will study and originate compositions for voices, solo instruments and orchestra, beginning with simple invention continuing through fugue and the modern song, rondo and sonata forms.

**27a. Sight Singing and Ear Training.** 1 Q. Autumn. 3 cr. Miss Gardner.

**27b. Sight Singing and Ear Training.** 1 Q. Winter. 3 cr. Miss Gardner.

**27c. Sight Singing and Ear Training.** 1 Q. Spring. 3 cr. Miss Gardner.

**29. Sight Singing and Ear Training.** A one quarter course open to all matriculated students. 3 cr. Miss Gardner.

- 31a. History of Music.** 1 Q. Autumn. 3 cr. Miss Gardner.
- 31b. History of Music.** 1 Q. Winter. 3 cr. Miss Gardner.
- 31c. History of Music.** 1 Q. Spring. 2 cr. Miss Gardner.
- 33a. Methods.** 1 Q. Autumn. 2 cr. Miss Gardner.
- 33b. Methods.** 1 Q. Winter. 2 cr. Miss Gardner.
- 33c. Methods.** 1 Q. Spring. 2 cr. Miss Gardner.
- 35a. Analysis and Appreciation of Music.** 1 Q. Autumn. 2 cr. Miss Gardner.
- 35b. Analysis and Appreciation of Music.** 1 Q. Winter. 2 cr. Miss Gardner.
- 35c. Analysis and Appreciation of Music.** 1 Q. Spring. 2 cr. Miss Gardner.
- 37abc. Orchestra.** 3 Q.  $\frac{1}{2}$  cr. each quarter.
- 39abc. University Band.** 3 Q. 1 cr. each quarter.
- 41abc. Women's Glee Club.** 3 Q.  $\frac{1}{2}$  cr. each quarter. Miss Gardner.
- 43abc. Men's Glee Club.** 3 Q.  $\frac{1}{2}$  cr. each quarter. Mr. Smith.
- 45abc. Choral Society.** 3 Q.  $\frac{1}{2}$  cr. each quarter. Open to all students possessing good voices. Mr. Smith.

Oratorios, cantatas and part songs are studied and performed in recitals and concerts during the season.

**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.

### TUITION

One quarter (12 weeks) two lessons a week, piano, violin, organ or voice under professors .....\$45

One quarter, one lesson a week, piano, violin, organ or voice under professors .....\$24

Students registered for less than full quarter will be charged at the rate of \$2.25 per lesson.

One quarter (12 weeks) two lessons per week, piano, violin or voice under assistant instructors .....\$33

One quarter one lesson a week, piano, violin or voice under assistant instructors .....\$18

Students registered for less than a full quarter will be charged at the rate of \$1.75 per lesson.

One-hour class lesson; four in each class; two lessons a week, \$20 a quarter.

One-hour class lessons; four in each class; one lesson a week, \$12 a quarter.

Harmony, two class lessons a week.....\$3.00

Piano practice on the University pianos may be arranged for at the following rate:

One hour daily, a quarter.....\$3

Each additional hour.....\$2

Piano rent must be paid for full quarter.

Sight singing and public school music free to all matriculated students.

A fee of \$5 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.



# School of Pharmacy

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PROFESSOR, CHARLES E. F. MOLLET (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 School of Pharmacy maintains a pharmaceutical society for the purpose of stimulating a greater interest in matters of practical importance to pharmacy students. Monthly meetings are held and talks given upon various topics by the instructors, students, practicing pharmacists and others. This society is a branch of the Montana Pharmaceutical Association.

## THE FAIRCHILD SCHOLARSHIP

Graduates of this school are eligible to compete for the Samuel W. Fairchild scholarship, amounting to \$300 in cash. The examinations will be held at the University on June 11. Graduates desiring to compete for this should apply to the Dean not later than June 1.

## MONTANA STATE PHARMACEUTICAL ASSOCIATION PRIZE

The association has established two scholarship prizes of fifty dollars each to be awarded annually to a first year and a second year student, upon the recommendation of the dean.

## REQUIREMENTS FOR ADMISSION

Applicants for admission must be at least sixteen years of age and must present evidence of a 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. Application for special registration must be made to the Dean.

## COURSES AND DEGREES

### Two Year Course

1. For the degree of Graduate in Pharmacy (Ph. G.), 96 credits are required. In addition to the prescribed work in Pharmacy, this must include the following: English, 5 credits; Botany, 3 credits; In-

organic Chemistry, 15 credits; Organic Chemistry, 5 credits; Physiology, 4 credits; Bacteriology, 4 credits.

### Three Year Course

2. For the degree of Pharmaceutical Chemist (Ph. C.), 140 credits are required. Candidates for the degree must have completed the courses required for the degree of Graduate in Pharmacy, and the following: Qualitative Analysis, 5 credits; English, 3 credits; Physiological Chemistry, 5 credits; Modern Languages, 8-10 credits; and Pharmacy, 9 credits.

### Four Year Course

3. For the degree of Bachelor of Science in Pharmacy (Phar. B.) 186 credits are required. This must include the prescribed work for the degree of Pharmaceutical Chemist, and Pharmacy, 9 credits.

Candidates for the degrees of Pharmaceutical Chemist and Bachelor of Science in Pharmacy are given opportunity to specialize and to elect subjects in other departments of the University.

Except in cases of physical disability, Military Drill for men and Physical Education for women, are compulsory courses for all students.

## MEDICINAL PLANT GARDEN

As a much needed and 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 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 the 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	5	5
Chemistry 11 .....	5	5	5
Pharmacy 11, General .....	3	.....	.....
Pharmacy 12, Metrology .....	3	.....	.....
Botany 12 .....	.....	3	3
Pharmacy 13, Pharmacognosy .....	.....	3	.....
Education 10 .....	1	.....	.....
Physical Education (Women) .....	1	1	1
Military Drill (Men) .....	1	1	1

## SECOND YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Bacteriology .....	---	---	4
Chemistry (Organic) .....	---	5	---
Physiology .....	4	---	---
Pharmacy 21, Materia Medica .....	4	4	4
Pharmacy 22, Drug Analysis .....	4	4	4
Pharmacy 25, Dispensing .....	3	3	3
Pharmacy 27, Commercial .....	1	1	1
Physical Education .....	1	1	1

## THIRD YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Chemistry, Qualitative and Physiological.....	5	5	5
Pharmacy 31, Pharmacology .....	2	2	2
Pharmacy 33, Abstracts .....	2	2	2
Modern Language .....	5	5	---
Electives .....	3	3	3

## DESCRIPTION OF COURSES

**11. General.** 3 Q. Autumn, winter, spring. Continuous. 15 cr. 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; laboratories, 6. Mr. Suchy and assistant.

**12. Metrology.** 1 Q. Autumn. 3 cr. A study of the official weights and measures and of important pharmaceutical calculations. Recitations. Mr. Mollet.

**13. Pharmacognosy.** 3 Q. Winter, spring, summer. Continuous. 6 or 9 cr. A study of crude vegetable and animal drugs, their sources, identifications, constituents, preparations, official names and synonyms. Mr. Mollet and assistant.

**21. Materia Medica.** 3 Q. Autumn, winter, spring. Continuous. 12 or 15 cr. The official inorganic and organic compounds and preparations, together with new and non-official remedies, are studied with regard to nomenclature, source and preparations, physical properties and pharmaceutical uses. This course also includes therapeutics and toxicology. Lectures and recitations. Mr. Mollet, Mr. Suchy, and assistant.

**22. Drug Analysis.** 3 Q. Autumn, winter, spring. Continuous. 12 or 15 cr. 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 and recitations will be given upon these methods. Mr. Suchy.

**25. Dispensing.** 3 Q. Autumn, winter, spring. Continuous. 9 or 12 cr. A technical study of all phases of the prescription, practical exercises at sight reading and in the art of extemporaneous compounding. Lectures, recitations, and laboratories. Mr. Suchy and assistant.

**27. Commercial.** 3 Q. Autumn, winter, spring. Continuous. 3 or 6 cr. A study of the commercial problems of the modern pharmacy. The student will be assigned readings in the current drug journals. Mr. Mollet, Mr. Peterson.

**31. Pharmacology.** 3 Q. Autumn, winter, spring. Continuous. 3 cr. A study of the physiological actions and assays of official drugs. Mr. Mollet.

**33. Abstracts.** 3 Q. Autumn, winter, spring. Continuous. 6 cr. The preparation of abstracts and the reading and discussion of articles in current pharmaceutical literature. Mr. Mollet and assistants.

**35. Advanced Analysis.** 2 cr. 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. Electives for three and four year pharmacy students. Mr. Mollet and assistant.

The above subjects are listed in proper sequence, the left hand figure indicating the year in which the subject may be pursued, provided the student has the required prerequisite.

# Summer Quarter

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PROFESSOR FREEMAN DAUGHTERS, DIRECTOR.

The Summer Quarter of the State University of Montana for 1921 will be a nine weeks' session beginning June 20 and ending August 19. The Law School and Music School, however, will continue in session only six weeks.

## REGULAR COURSES

Courses in all of the departments of the College of Arts and Sciences will be offered, as well as courses in the Schools of Law, Journalism, Business Administration, and Music.

## CERTIFICATE COURSES

Courses for certificate credit in practically all of the subjects above the second grade will be offered. Conditions fulfilling the Normal Training requirement will be met together with special attention laid upon teachers' training courses. It is possible to meet the legal normal training requirement by carrying three certificate subjects running over the full nine weeks' period of the summer session.

## ADMISSION

Students who are 18 years old or more may be admitted to any course by securing the approval of the instructor in charge. Credit for such work cannot be given unless the student complies with the regulations for certificate credit for teachers, or meets the regular entrance requirements given below. Students less than 18 years old, in order to be admitted, must be graduates of some preparatory or high school of recognized standing.

## CREDIT

University credit toward degrees will be given only to those who satisfy the regular entrance requirements. The normal load which may be carried during the nine weeks of the Summer Quarter is 12 credits, and the maximum registration is 14 credits. Should a greater number of credits be desired, permission must be obtained from the committee on admission and registration. Proper instructions as to where the committee may be found and blanks for making out the petition for additional hours may be had at the registrar's office.

## CERTIFICATE OF ATTENDANCE

Students of the Summer Quarter who are not eligible to receive University credit will, upon request to the registrar, receive a certificate for attendance and for courses satisfactorily completed.

# Biological Station

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A station for instruction and research, 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 island. The Flathead Lake Bird Reservation consists of two islands donated to the state as a bird reserve. These islands are under the 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.

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 16 and 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.

Students are required to pay a matriculation fee of \$10. An additional fee of \$5 is required for the use of scientific apparatus and boats. Meals are furnished at cost.

Credit for equivalent university work is given.

Special investigation and research work may be undertaken by those qualified to work independently. Every encouragement will be given in the direction of profitable research and in the publication of results.

Students who are beginning research, or who work under direction, will find the following excellent fields for work:

The morphology, taxonomy and distribution of fresh water algae and of parasitic fungi.

The fishes and insects.

The protozoa and entomostraca.

Those students prepared to undertake investigations with self-devised plans and methods will find the following fields fruitful:

In morphology there is abundant material of many forms. Many species almost entirely unknown to science are to be had.

In taxonomy many groups are yet in confusion, both land and

water species. Insects, worms, crustacea, algae, fungi, and flowering plants present many opportunities for the investigators. Much important study is delayed by the inadequate taxonomy.

In parasites the field is almost untouched.

In embryology the season is just right for some fishes, and for the entomostracea. In other groups it probably is good.

In ecology there are many habitats for study. The field is good. Varying geological formations and climatic areas give wide range for work.

In cytology there is good material, but special attention must be given in advance to equipment for slide preparation.

In geographical distribution for most of the species only a beginning has been made. The field is large.

In bacteriology the field is open, but facilities at the station are lacking.

The courses offered give special preparation for teaching either Botany or Zoology in secondary schools or colleges. The work as outlined and planned consists largely of field work, dealing with the animals and plants of the locality. By this plan actual training in field courses is given, fitting the methods of advanced biological teaching as used at the present time.

# Register of Students 1920-1921

(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	
For. Rgr.—Forest Rangers' Course	
SQ—Summer Quarter	
Uncl.—Unclassified	
lr—Limited Registration, students enrolled in not more than two subjects	

**Quarters in Attendance:** 1, Autumn Quarter; 2, Winter Quarter; 3, Spring Quarter; 4, Summer Quarter, 1920; 4a, Summer Quarter, first term, 1920; 4b, Summer Quarter, second term, 1920.

Students whose names are marked with an asterisk (\*) died during the year.

Classified as of June 1, 1921.

Name	Curriculum	Rank	Quarters in Attendance	Residence
Adams, Harry Franks.....	Bus Ad	Sr	1,2,3	Olympia, Wash.
Adams, Helen Elmira.....	AS	Fr	1,2,3	Thompson Falls
Adams, Marion J. ....	Bus Ad	So	1,2,3	Forsyth
Adams, Olive M. (Mrs.).....	Uncl (Psych) (lr)	2		Missoula
Adderholt, Roy .....	Mus Sp		4a,1,2,3	Missoula
Ahern, Rolland Byron.....	AS	So	1,2	Anaconda
Ahlgren, Vera Elizabeth.....	AS	So	1,2,3	Vallier
Ahlgren, Vivien Gladys.....	AS	So	2,3	Vallier
Aho, Mary S. ....	Bus Ad	Fr	1,2,3	Red Lodge
Aho, William .....	Bus Ad	So	1,2,3	Red Lodge
Akin, William F. ....	SQ		4a	Missoula
Albright, Clifford Warren.....	Bus Ad	So	1,2,3	Virginia City
Alexander, Violet Romine.....	SQ		4	Medicine Lake
Allan, William S., Jr. ....	For	So	1,2,3	Charleston, S. C.
Allard, Odna Lillian.....	Jrl	Fr	1,2,3	St. Ignatius
Allen, Alfred Napoleon.....	For	Sp	2,3	Plainview, Minn.
Allen, Audrey .....	AS	Fr	1,2,3	Missoula
Allen, William M. ....	Law	Jr	1,2,3	Missoula
Allison, Herman Thomas, B.A.....	SQ		4	Missoula
Allison, Jay Henry.....	Pharm	So	1,2,3	Missoula
Alward, Florence G. (Mrs.).....	AS (lr)	Sp	1,2,3	Missoula
Anderson, Alma C. ....	SQ		4	Helena
Anderson, Andy .....	For Rgr		2	Missoula
Anderson, Celia M. ....	Jrl	So	1,2,3	Westby, Wis.
Anderson, Clarence Charles.....	Jrl	Fr	1,2	Toston
Anderson, Clarence T. ....	AS	Fr	1,2,3	Billings
Anderson, Hugh J. ....	Pharm	So	1,2,3	Dillon
Anderson, Margarite I. ....	SQ		4a	Porterville, Cal.
Anderson, Oscar Mangus.....	Bus Ad	So	1,2,3	Great Falls
Anderson, Paul Lloyd.....	AS	Fr	1,2,3	Boyd
Anderson, Queen .....	Bus Ad	So	4,1,2,3	Twin Falls, Ida.
Andresen, Solvay K. ....	Jrl	So	1,2,3	Missoula
Andrus, Edson Allan.....	Bus Ad	Sp	1	Miles City
Angland, Maurice Patrick.....	Jrl	Sp	2,3	Great Falls
Angland, Phil James.....	AS	So	1,2	Great Falls
Anglemyer, Earl Llewilyn.....	SQ		4	Denton
Angst, Mildred .....	AS	Fr	1	Missoula
Arendt, Harold J. ....	For	Sp	1,2,3	St. Paul, Minn.



Name	Curriculum	Rank	Quarters in Attendance	Residence
Armitage, Florence	AS	Fr.	1,2,3	Billings
Armitage, Harriet	AS	So.	1,2,3	Billings
Armstrong, Grace E., B.A.	SQ		4a	Anaconda
Arnegard, Mabel Cornelia	AS	Fr.	1,2,3	Gerardine
Arnold, Ruth S.	Mus Sp		4a,2	Deer Lodge
Ary, Inez Hope	SQ		4a	Big Sandy
Ashford, Osborne Raymond	Bus Ad	Fr.	1,2,3	Butte
Astrophe, Myrtle Edith	SQ		4a	Homestead
Atencio, Eligio	Pharm	So.	1	Moncada, P. I.
Auerbach, Pauline	Bus Ad	Fr.	1,2,3	Great Falls
Austin, Carl Ravens	Bus Ad	So.	1	Twin Bridges
Ayres, Roy Robert	For	Sp.	1	Livingston
Badger, Helena Marie	AS	Fr.	1,2,3	Billings
Badgley, E. Kirk	AS	Fr.	1,2,3	Billings
Baggs, John Thornton	Bus Ad	Fr.	1,2,3	Stevensville
Bailey, Audrey	AS	Fr.	1,2,3	Missoula
Bailey, J. Edwin	Bus Ad	So.	4,1,2,3	Lavina
Bailey, Kathryn Anna	Bus Ad	So.	1,2,3	Lavina
Baird, Alva C., B.A., LL.B.	SQ (lr)		4a	Missoula
Baird, Harold L.	Bus Ad	So.	1,2,3	Missoula
Baker, Agnes	SQ (lr)		4a	Missoula
Baker, Alfred Henry	SQ		4a	Missoula
Baker, Clyde	For	Sr.	4a	Libby
Baker, Helen Louise	Mus Sp		Fr. 1,2,3	Missoula
Bakkeby, Sylvia M.	AS Eng	Jr.	2,3	Missoula
Badwin, Grace Davidson	AS Fine Arts	Jr.	1,2,3	Anaconda
Baldwin, Neva	SQ		4a,1,2,3	Whitefish
Balf, Margaret A.	AS		4a	Hardin
Balf, Thomas John	Bus Ad	Fr.	1,2,3	Missoula
Ballard, Ralph Eugene	Pharm	Sp.	1,2,3	Missoula
Ballard, Sidney	AS Pre Med.	Jr.	3	Malta
Bandmann, Hebe	Uncl (lr)		Jr. 2	Malta
Banfield, Samuel Richard	AS	So.	4a,1,2	Missoula
Baptist, Charles F. D.	SQ		1,2	Broadview
Baptist, Llawella Mary	AS		4	Missoula
Barnes, George Francis	SQ (lr)	So.	1,2,3	Missoula
Barnett, Grace Treleven	AS Hist		4a	Whitehall
Barnhart, Angeline	AS	Sr.	1,2,3	Missoula
Barnum, Millard McKinley	For.	So.	1,2,3	Missoula
Barry, Earl W.	Bus Ad	So.	1,2,3	Etna Mills, Cal.
Barto, Margaret	AS Hist	Sr.	4b,1,2	Missoula
Bates, Elaine	Jrl	Sr.	1,2,3	Thompson Falls
Batson, Winifred C. (Mrs.) B.A.	SQ		4	Malta
Wittenburg, Springfield, O.	SQ		4	Vermillion, S. D.
Bauch, Amelia J.	SQ (lr)		4a	Madison, Neb.
Bawden, Perle	AS	So.	1,2,3	Butte
Beadle, Hazel Christene	SQ		4a	Milltown
Beam, Clarence William	AS	Sp.	1,2,3	Missoula
Beardsley, Minnie B. (Mrs.)	SQ		4a	Lima
Beaver, Gladys	Jrl	Fr.	1,2,3	Missoula
Beckstrom, Oscar B.	For	Sp.	1,2,3	Duluth, Minn.
Bedford, LaVantia White	Jrl	Fr.	1,2,3	Potomac
Beeman, Harold Oscar	Bus Ad	So.	1,2,3	Broadview
Beeston, Edna Corinne	SQ		4	Stevensville
Belknap, Edna Mae	AS Mod Lang.	Sr.	1,2,3	Folsom
Bell, Dorothy Leora	Mus Sp		1,2,3	Missoula
Bell, Ralph W.	AS	So.	1,2,3	Florence
*Bell, Robert Ray	For Rgr		2	Cliff, N. Mex.
Bennett, Anne Christman	Bus Ad	Fr.	1,2,3	Missoula
Benson, Florence, B.A.	SQ		4	Spokane, Wash.
Benson, Hilda Katherine	AS Math	Jr.	1,2,3	Butte
Benson, Otis O.	AS	Fr.	1,2,3	Spokane, Wash.
Berrisford, Mark Vincent	For	Sp.	3	White Bear, Minn.
Bertrand, Arnold James	Bus Ad	Sp.	1,2,3	Roberts
Besondy, Edward Toren	For Rgr		2	Rand, Colo.
Best, Elwood H.	For	Sp.	1,2,3	Missoula
Best, Jasper Orin	For Rgr		2	Missoula
Bevier, Helen Adine	SQ		4a	Logan
Bierman, Esther Caroline	AS	Fr.	1,2,3	Kalispell
Bierman, Jessie Marguerite	AS Biol	Sr.	4,1,2,3	Kalispell
Bigalk, Alice Marie	SQ		4a	Kalispell
Bishop, Forrest Edward	Bus Ad	Fr.	1,2	Missoula
Bitney, Raymond H.	For (lr)	Sp.	3	Shell Lake, Wis.

Name	Curriculum	Rank	Quarters in Attendance	Residence
Black, Leah Dunlap, B.A.	SQ (lr)	4a		Idaho Falls, Idaho
Black, Marvin William	Pharm	So.	1,2,3	Havre
Black, William A.	SQ	4a		East Helena
Blackburn, Quin A.	For	So.	2,3	Seattle, Wash.
Blacker, Bertha M.	SQ	4a		Shelby
Blackford, Anna Margaret	AS	So.	1,2,3	Lewistown
Blackstone, Jessie Edna	SQ	4		Anaconda
Blake, Ruth	SQ	4a		Kalispell
Blenkner, Edwin Arthur	Law	Sr.	1,2,3	Broadus
Blomgren, C. Harold	Bus Ad	So.	1,2,3	Butte
Blumenthal, Emil L.	AS	So.	1,2,3	Missoula
Bohart, Seth F.	AS	Fr.	1	Wilsall
Boles, Aurelia	Uncl (Psych) (lr)	2		Missoula
Bombard, Hazel Helen	AS	So.	1,2,3	Missoula
Bonifield, Pearle L.	SQ	4b		Broadus
Bontelier, Pauline	AS (lr)	Sp.	3	Missoula
Booth, Alice Martha	AS (lr)	Sp.	3	Missoula
Booth, Myrna E., B.A.	SQ (lr)	4a		Missoula
Boucher, Malcolm Marcus	AS	Fr.	1,2,3	Missoula
Bourquin, John Justin	SQ	4a		Butte
Bower, Phyllis Mildred	SQ	4a		Butte
Bowers, Raymond J.	For	Sp.	3	Kalispell
Bowker, Edith Elizabeth	AS	Fr.	1	Fromberg
Bowman, Berenice Grace	AS	Fr.	3	Butte
Boyd, Agnes Callaway	Jrl	So.	1,2,3	Helena
Boyd, Andrew, Jr.	Bus Ad	Sr.	1,2,3	Helena
Boyd, Elma Agnes	AS Hist	Jr.	1,2,3	Ovando
Boyd, Eva M.	AS Hist	Jr.	1,2,3	Ovando
Boyd, Martha Ann	Uncl (lr)	1,2		Esther, Mo.
Bradford, Truman Gove	Law	Fr.	1,2,3	Great Falls
Bradshaw, Frances Leora	Bus Ad	So.	1,2,3	Ekalaka
Brady, Paul Gorman	For	Jr.	1,2,3	Madison, S. D.
Bramble, Kittie A.	SQ	4		Tacoma, Wash.
Brannen, Robert C.	AS	Sp.	1,2,3	Little Falls, Minn.
Braten, Sigrid	AS	So.	1,2,3	Bozeman
Brennan, Wallace	Jrl	Fr.	1,2,3	Missoula
Brewer, Gertrude Delavan	Jrl	So.	1,2,3	Bozeman
Bridgewater, Edith A.	AS	So.	1,2,3	Townsend
Bristol, Clarence	Bus Ad	Fr.	1,2	Lewistown
Brockway, Ethel Everette	Bus Ad	Jr.	1,2,3	Billings
Broderick, R. Ernest	For	Fr.	1,2,3	Louisville, Ky.
Brome, Alice M.	SQ	4a		Butte
Brooks, Earl Henry	For	Sp.	1,2	Kalispell
Brooks, Hazel	Uncl (lr)	1,2		Cabinet, Ida.
Brown, Agnes Longmuir	AS	So.	1,2,3	Missoula
Brown, Clark T.	AS	So.	1,2,3	Missoula
Brown, Cora Ruth	Jrl	Fr.	1	Plentywood
Brown, Margaret Clement	SQ	4a		Missoula
Brown, Mary Gault	Bus Ad	Jr.	1	Philipsburg
Brown, Mary Mildred	Bus Ad	Fr.	1	Great Falls
Brown, Matthew Henry	Bus Ad	Fr.	1,2,3	Great Falls
Brown, Paul H.	Law	Fr.	1,2,3	Ganado, Tex.
Brown, Robert Keith	Law	Sr.	1,2,3	Billings
Brown, William Kilgove, B.A., Univ. of Mich.	Law	Gr.	1,2,3	Tarrant, Tex.
Browne, Matie	SQ	4b		Red Lodge
Brownfield, Bert	AS	Fr.	1,2	Harlem
Bruner, Temple Alfred	SQ	4		White Sulphur Springs
Brush, Pearl Elizabeth	Bus Ad	Fr.	1,2,3	Anaconda
Ecusletten, Lillian O.	AS	Fr.	1,2	Polson
Buck, Ruth Clair	SQ	4		Stevensville
Bue, Olaf J.	AS	So.	1,2,3	Warland
Buford, Grace	AS Phys Ed	Jr.	4,1,2,3	Missoula
Bullock, Marjorie E.	AS	Fr.	1,2,3	Valier
Burdick, Helen Rosemary	Bus Ad	Fr.	1,2,3	Glendive
Burfening, Beryl	AS Phys Ed	Sr.	1,2,3	Bynum
Burgett, Earl	SQ	4		Choteau
Burke, Monica F., B.A.	Law (lr)	Gr.	1	Missoula
Burkhart, Vera Delia	AS	So.	1,2,3	Missoula
Burt, Audrey Jane	AS	Fr.	1,2,3	Forsyth
Burt, John Loyd	SQ	4a		Forsyth
Bussey, Joe T.	AS	Sp.	1	Conrad
Bushey, Hubert Dewey	For Rgr	2		Plains
Bushnell, Frances Ford (Mrs.)	AS (lr)	Sp.	1	Missoula

Name	Cur-riculum	Rank	Quarters in Attendance	Residence
Buster, Margaret Fae.....	SQ		4a	Laurel
Butzerin, Margaret (Mrs.).....	AS (lr)	Sp	2	Missoula
Caffrey, Macey Venus.....	Bus Ad	Fr	1,2,3	Poison
Calder, Hazel Mary.....	SQ		4a	Bainville
Callahan, Lillian L.....	AS (lr)	Sp	1	Missoula
Campbell, Agnes.....	SQ		4	Big Timber
Campbell, Catherine.....	Mus Sp		1,2	Missoula
Campbell, Maude G.....	Pharm	Jr	1,2,3	Big Timber
Campbell, Ursula Maragaret.....	AS	Fr	1	Missoula
Canfield, Ray Hyer.....	For	Sp	2,3	Missoula
Cannell, Lillian Ethel, B.A., Univ. of Colo.....	SQ		4	Red Lodge
Canole, Alvin Claudest.....	SQ		4a	Helena
Caras, Sam K.....	AS (lr)	Sp	1,3	Missoula
Carlen, Frank R.....	AS	Sp	1,2,3	Missoula
Carlisle, J. Marie.....	AS	So	1,2,3	Butte
Carlson, Clara Helena.....	AS	So	4b,1,2,3	Great Falls
Carman, L. Maye.....	SQ		4a	Butte
Carmichael, Vingil T.....	SQ		4	Reed Point
Carnal, Donald.....	AS	Pre Leg	Jr 1,2,3	Great Falls
Carney, John Martz.....	AS	Fr	2,3	Springdale
Carney, Mayme.....	AS	Math	Jr 1,2,3	Waterloo
Carpenter, Mildred Anna.....	AS	Biol	Sr 1,2,3	Great Falls
Carson, Frances Cross.....	AS	So	1,2,3	Townsend
Carson, Helen Bessie.....	AS	Fr	1,2,3	Townsend
Carson, Laura Evas.....	AS	Fr	1	St. Ignatius
Carson, Robert E.....	Bus Ad	So	4,1,2,3	Chatfield, Minn.
Carver, Ella Lee.....	Uncl (lr)		1,2	Missoula
Carver, Dwight Leslie.....	Bus Ad	Jr	1,2,3	Florence
Carver, Howard Chester.....	AS	So	1,2	Florence
Cassidy, Francis Joseph.....	AS	Mod Lang	Sr 4,1,2,3	Winston
Casswell, Eva L.....	Bus Ad	Fr	1,2,3	Billings
Catev, Myrtle LeElla.....	SQ		4a	Buford, N. D.
Cavin, Ruth.....	AS	Phys Ed	Sr 1,2,3	Tacoma, Wash.
Cawley, Delbert.....	AS	So	1,2,3	Roundup
Centerwall, Willard R.....	For	Sp	3	Crystal Bay, Minn.
Chamberlain, Earl W.....	For	Fr	2,3	Mauston, Wis.
Chandler, Stella Curl.....	Bus Ad	Sr	1,2,3	Lane, S. D.
Charles, Ruth D.....	AS	So	4a,1,2,3	Butte
Christensen, Earle A.....	AS	Psych	Sr 1,2,3	Missoula
Christensen, Lillian.....	AS	Phys Ed	Sr 4a,1,2,3	Missoula
Christensen, Milford Dan.....	Jrl	Fr	1,2	Sunburst, Minn.
Christie, Ralph William.....	Bus Ad	Fr	1,2,3	Spokane, Wash.
Clack, Catherine M.....	AS (lr)	Sp	3	Missoula
Clague, Marietta.....	SQ		4a	Anaconda
Clark, Alice Mildred.....	Bus Ad	Fr	1	Livingston
Clark, Elizabeth A.....	Bus Ad	Fr	2,3	Great Falls
Clark, Gertrude.....	AS	Math	Sr 1,2,3	Columbus
Clark, Helen E.....	AS (lr)	Sp	2	Missoula
Clark, Walter Earl.....	Pharm	Fr	1,2,3	Malta
Clark, Mrs. William A.....	AS (lr)	Sp	3	Virginia City
Clarke, Robert Melville.....	For	Fr	1	Harvard, Ill.
Cleveland, Alvin Elbert.....	AS	Fr	2	Willow Creek
Clevenger, Dorothy.....	SQ		4b	Miles City
Cliff, Anne Helen.....	Bus Ad	So	1,2,3	Butte
Clifford, Myrtle A.....	SQ		4a	Louisville, Neb.
Clinton, Anna Belle.....	Bus Ad	Fr	2	Anaconda
Clouatre, Hermina.....	AS (lr)	Sp	1	Missoula
Closs, Edwin Robert.....	For	Fr	1,2,3	Hillside, N. J.
Coates, Marion.....	Bus Ad	Fr	1,2,3	Martinsdale
Cochran, Opal Lee.....	AS (lr)	Sp	3	Missoula
Cody, Mary E.....	SQ		4a	Butte
Coffee, Eva M., B.S.....	AS (lr)	Gr	2	Missoula
Coffee, Oakley Evans.....	AS	Pre Leg	Jr 1,2,3	Missoula
Cogswell, William O.....	Jrl	So	1,2,3	Missoula
Colby, Florence.....	SQ	Mus Sp		Missoula
Collette, Bessie M. (Mrs.).....	SQ		4a	Missoula
Collins, Fay M.....	AS	Mod Lang	Sr 1,2,3	Westmore
Colton, Thomas C.....	Law	Sp	4,1,2,3	Anaconda
Colwell, Leslie Lowry.....	For	Sp	1,2,3	Butte
Condon, Anna G.....	Uncl (lr)	Sp	1,2,3	Missoula
Conlay, Georgie Lee.....	SQ		4a	Missoula
Conley, Elsie Elizabeth.....	SQ		4a	Butte
Connell, George Donald.....	Bus Ad	Fr	1,2,3	Butte
Connell, George Donald.....	Bus Ad	Fr	1,2,3	Missoula

Name	Curriculum	Rank	Quarters in Attendance	Residence
Connelley, Norah Irene.....	SQ	4	1	Dillon
Connelley, Orland Thomas.....	Bus Ad	So. 4,1	1	Dillon
Connors, John Lawrence.....	AS	So. 1,2,3	1	St. Ignatius
Conrad, Florence Louise.....	AS	So. 1,2,3	1	Anaconda
Conrad, Frances Helen.....	Bus Ad	Fr. 1,2,3	1	Great Falls
Conrad, Nina V.....	Uncl (lr)	4a,3	1	Missoula
Conroy, Joseph William.....	Bus Ad	Fr. 1,2,3	1	Missoula
Conser, Beth.....	SQ	4a	1	Baker
Converse, Earl.....	AS Biol	Jr. 1	1	Anaconda
Cook, Bonita Grace.....	AS	Fr. 2,3	1	Bonita
Cool, Villa Marshall.....	Uncl (Psych) (lr)	2	1	Missoula
Cooley, Purley Elmer.....	For (lr)	Sp. 3	1	Lacy, S. D.
Cooney, Francis Henry.....	Jrl	Fr. 1,2,3	1	Missoula
Cooper, William Donald.....	For	Sp. 2,3	1	Mankato, Minn.
Copeland, Neva R., B.A., Univ. of Iowa.....	SQ	4a	1	Manhattan
Corn, Veda Fern.....	SQ	4	1	Superior
Cortez, Felipe Salazar.....	For	Fr. 1,2,3	1	Piddig, P. I.
Coucher, Margaret J.....	Jrl	Sr. 2,3	1	Missoula
Coughlin, Cora Cecelia.....	SQ	4a	1	Helmville
Coughlin, Julia Ellen.....	SQ	4a	1	Butte
Courtney, William Francis.....	AS	Fr. 1,2,3	1	Missoula
Cox, Gertrude A., B.A., Bates College, Lewiston, Me.....	AS Eng (lr)	Gr. 3	1	New Hampton, N. H.
Coyne, Henry Joseph.....	For	Sp. 3	1	S. Boston, Mass.
Crabb, Rachel E.....	AS	Fr. 1,2,3	1	Deer Lodge
Craig, Charles Edwin.....	For	Sp. 3	1	Missoula
Craig, Mary Ann.....	SQ	4	1	Outlook
Craig, Mary Louise.....	SQ	Mus Sp. 4a	1	Oswego
Craighead, Katherine W.....	AS Eng	Jr. 4,1,2,3	1	Missoula
Crain, Violet Elizabeth.....	AS	Fr. 1,2,3	1	Missoula
Cramer, Albert John.....	For	Jr. 1,2,3	1	Missoula
Cramer, Ernest Wilste.....	For	Rgr. 2	1	Missoula
Crandell, Richard F.....	Jrl	Fr. 1,2,3	1	New York, N. Y.
Crangle, Isabel Margaret.....	SQ	4a	1	Butte
Crews, Clinton A.....	Jrl	So. 1,2,3	1	Anaconda
Cromwell, M Anne.....	Jrl	So. 2,3	1	Jordan
Crossman, Ida.....	SQ	4	1	Butte
Crotean, Virginia Marie.....	AS (lr)	Sp. 1,3	1	Dickinson, N. D.
Crosby, Howard, Jr.....	For	Sp. 2	1	Great Falls
Crow, Ansel Dale.....	AS	Fr. 1,2	1	Missoula
Crowell, Ralph Everett.....	For	So. 1,2,3	1	Pony
Crumbaker, Oliver Victor.....	AS	So. 1,2,3	1	Carter
Cullen, Walter Albert.....	For	Sp. 1,2,3	1	Edgewood, R. I.
Curran, Lucile H.....	SQ	4a	1	Missoula
Curtis, Marie Olive (Mrs.).....	Mus	Fr. 1	1	Portland, Ore.
Cutler, Tay Margaret.....	Jrl	Fr. 1,2,3	1	Berkeley, Cal.
Cuttell, Ardys Angeline.....	Mus	Fr. 1,2,3	1	Billings
Dahlberg, George Peter.....	AS	Fr. 1,2,3	1	Butte
Dahlberg, Harry William.....	Bus Ad	Sr. 1,2,3	1	Butte
Dally, George L.....	For	Sp. 1,2,3	1	Miles City
Danaher, Ella May.....	AS	Fr. 1,2,3	1	Helena
Davenport, Alice Claire.....	AS	Fr. 1,2,3	1	Butte
Davis, Lewis Nathan.....	Bus Ad	Fr. 1,2	1	Miles City
Dawes, John Arthur.....	Bus Ad	Jr. 1,2,3	1	Hamilton
Day, George Borus.....	Bus Ad	Sp. 2	1	Lexington, Mass.
Daylis, Fred T.....	Bus Ad	Jr. 1,2,3	1	Worden
Dayton, Almeda.....	Uncl (lr)	1	1	New Richmond, Wis.
Deaney, Roger Patrick.....	AS	Fr. 1,2,3	1	Butte
Deeeny, Rose J.....	AS	So. 2,3	1	Butte
Deegenhart, Pearl C.....	AS Chem	Sr. 1,2,3	1	Philipsburg
DeJarnette, George Monroe.....	For	Sr. 1,2,3	1	Missoula
DeKraay, Raymond Wilson.....	Pharm	Fr. 1,2,3	1	Missoula
Delaney, William M.....	AS	Sp. 1,2	1	Hopkins, Minn.
deMers, Lambert L.....	Bus Ad	Sr. 1,2,3	1	Arlee
Dennie, Louis White.....	For	Jr. 2	1	Missoula
Denny, Leta Caroline.....	AS	Fr. 1	1	Missoula
DePirro, Amedius.....	AS (lr)	Sp. 1,2,3	1	Missoula
Derr, Marcus H.....	Law	So. 1,3	1	Missoula
DeRyke, Leroy, B.A.....	AS Mod Lang	Gr. 4,1,2,3	1	Missoula
Deschamps, Anna Odila.....	AS (lr)	Sp. 3	1	Missoula
Deschamps, Hilda Claire.....	AS	Fr. 1,2,3	1	Missoula
DeVeber, Jessie Elizabeth.....	SQ	4	1	Florence
Dewell, Julian.....	For	Sp. 1	1	Pierre, S. D.
Dexter, Albert Kendall.....	For	Jr. 1,2,3	1	Madison, Wis.

Name	Cur-riculum	Rank	Quarters in Attendance	Residence
Dexter, Edwina M.	AS Econ	Jr.	1,2,3	Madison, Wis.
Dick, Mildred Mae	SQ		4	Wibaux
Dickson, Dorothy Nina	AS	Fr.	1,2,3	Missoula
Diehl, Joseph E.	For	Fr.	1,2	Johnstown, Pa.
Dietrich, Eleanor A.	AS Home Ec.	Jr.	1,2,3	Helena
Dion, Marie	AS	Fr.	1,2,3	Glendive
Dirmeyer, Earl P., B.S.	For	Gr.	1,2,3	Tiffin, O.
Distad, Hjalmer William	SQ		4b	Bozeman
Dixon, Dorothy Worden	AS	So.	4a,1,2,3	Helena
Dixon, Virginia, B.A.	SQ (lr)		4a	Missoula
Dobbin, Harold Wm.	AS	So.	1,2,3	Scobey
Dobson, Olive C.	AS Phys Ed.	Sr.	4b,1,2,3	Missoula
Doherr, Mary Elizabeth	AS	So.	4,1,2,3	Butte
Doherty, Colette L.	AS	So.	1,2,3	Butte
Dolven, Walter Otto	AS	Fr.	1,2	Harlem
Donich, Amelia Regina	Pharm	Fr.	1,2,3	Deer Lodge
Donlan, Edward, Jr.	SQ		4	Missoula
Donohue, Kathryn H.	AS	So.	1,2,3	Missoula
Donovan, Shirley	SQ		4a	Baker
Dorsey, James Weston	AS Fine Arts.	Sr.	4,1,2,3	Missoula
Dostal, Joseph B.	For	Sp.	1,2,3	Badger, Minn.
Dougherty, Marion Ruth	Bus Ad	So.	1,2	Plains
Douglas, Mary Elizabeth	SQ		4a	Oka
Dowd, Laura	SQ		4b	Ingomar
Downing, Carey J.	SQ		4a	Sheridan
Doyle, Laura Marion (Mrs.)	AS (lr)	Sp.	1,3	Missoula
Dragstedt, Carl Evert	Bus Ad	So.	1,2,3	Missoula
Drenwell, Louise Wilson	Uncl		3	Missoula
Drews, Carl Henry	Jrl	So.	1	Missoula
Dries, Laura Eleanor	SQ		4	Missoula
Driscoll, Arthur Leo	AS	So.	1,2,3	Butte
Driscoll, Joanna Helen	SQ		4a	Butte
Dudley, Lila Irene	AS	Fr.	1,2,3	Niawa, Minn.
Duffy, Edward Earle	Jrl	So.	1,2,3	Florence
Dull, Irvin Albert	SQ		4a	Hardin
Duncan, Eileen W. (Mrs.), B.A.	For	Gr.	2	Missoula
Duncan, Erwin Edward	Bus Ad	Fr.	1,2,3	Hamilton
Duncan, Thomas William	SQ		4a	Missoula
Dundas, Ronald Thomas	AS	Fr.	1	Missoula
Dunlavy, Guy L.	For	So.	1,2	Bedford, Ia.
Dunnigan, Ruth	AS	Fr.	1,2,3	Miles City
Dwyer, Leo Edward	AS	Fr.	3	Victor
Edwards, Alice Wass.	AS	Fr.	1	Forsyth
Edwards, Lura Elizabeth	AS	Fr.	1,2,3	Sheridan
Egan, John Robert	Bus Ad	Fr.	1,2,3	Missoula
Egeberg, Harold Oscar	AS	Fr.	1,2,3	Miles City
Egleston, Elizabeth E.	AS	Fr.	1,2,3	Helena
Eisiminger, William F.	AS	Fr.	1,3	Alberton
Eldering, Grace	AS Biol	Jr.	1	Rancher
Eldridge, Mildred Edna	Mus Sp		1	Missoula
Ellinghouse, Bertha Ellen, B.A.	SQ		4a	Missoula
Elliott, W. Harvey	AS	So.	1,2,3	Missoula
Emery, Elisabeth	SQ		4a	Drummond
Emhoff, Lois Ida	AS	Fr.	1,2,3	Stevensville
Enguess, Michael J.	For	Sp.	2,3	Marlboro, Mass.
England, George	For	Fr.	1,2,3	Haddonfield, N. J.
Ennis, William	AS	Fr.	1	Butte
Erickson, Etta Louise	SQ		4	Jordan
Erickson, Sadie, B.A.	AS Hist	Gr.	4,1,2,3	Silver Bow
Erickson, William T.	For	Sp.	2,3	Moorhead, Minn.
Ericson, Eston Everett	SQ		4b	Rapelje
Ericsson, Ida E. S.	SQ		4a	Butte
Ernst, Oliver Harland, Jr.	AS	Sp.	1,2,3	Billings
Evans, Clifford M.	For	Sp.	1,2,3	Everett, Mass.
Evans, Dwynwen	AS	So.	4,1,2,3	Roundup
Evans, Helen Lucille	AS Home Ec.	Jr.	1,2,3	Butte
Evans, Mary	SQ		4a	Missoula
Evans, William Clarence	For Rgr		2	Missoula
Fagg, Adaline Elizabeth	Bus Ad	Fr.	1,2,3	Billings
Faick, Helen Katherine	AS	Fr.	1,2,3	Missoula
Falch, Lynn Bernard	Jrl	So.	2,3	Boulder
Fanning, Raymond V.	For	Sp.	1,2	Everett, Mass.
Farmer, Alfred Ernest	Jrl	Fr.	1,2,3	Missoula
Farmer, Almada (Mrs.), B.A.	AS (lr)	Gr.	1,2,3	Missoula
Farmer, James A.	Law	Jr.	4a,1,2,3	Missoula

Name	Curriculum	Rank	Quarters in Attendance	Residence	
Farrell, James Irving	AS	Fr.	1,2,3	Butte	
Farrell, Katherine H.	SQ		4a	Butte	
Farrell, Margaret J.	Bus Ad	Fr.	1,2,3	Billings	
Farrell, Margaret P.	AS	Hist	Sr.	4,1	Butte
Farrell, Mary Montana	AS	Mod Lang	Jr.	4,1,2,3	Butte
Farrington, Clayton	AS		So.	1,2,3	Jordan
Fawcett, Mark	AS		So.	1,2,3	Sidney
Fellows, Lillian Elsie	Uncl (lr)		1	Plains	
Fergus, Eleanor C.	AS		So.	1,2,3	Great Falls
Ferguson, Marion	Mus	Sp	1,2,3	Missoula	
Fields, Ralph Edwin	For		Sp.	1,2,3	Ada, O.
Files, Grace C.	Jrl		So.	1,2,3	Forsyth
Finch, Eugene Walter	AS		So.	1,2,3	Dillon
Finch, Frank Charles	Bus Ad		So.	1,2,3	Bullhead, S. D.
Finnegan, Sister C.	Uncl (lr)		1,2	Missoula	
Fisher, Margaret	AS	(lr)	Sp.	1,2	Missoula
Fischer, Susie E.	SQ		4a	Hamilton	
Fitch, Anna R. (Mrs.)	SQ		4	Paxton	
Fitch, Arthur L.	SQ		4	Paxton	
Fitch, Ben R.	SQ		4	Terry	
FitzGerald, Harold E.	Bus Ad	Sr.	1,2,3	Miles City	
Fitzgibbon, Helen	AS		So.	4,1,2,3	Hamilton
Flaherty, Catherine V.	AS	(lr)	Sp.	3	Missoula
Flanagan, Harry Emmet	Jrl		Sp.	1,2,3	Dickinson, N. D.
Flanagan, Violet Eileen	Bus Ad		Fr.	1,2,3	Chinook
Flugstad, Wayne	Jrl		Fr.	1	Corvallis
Fogarty, Josephine	AS		Fr.	1	Butte
Fogle, George L.	Bus Ad		Sp.	2,3	St. Paul, Minn.
Fonner, Delma	Uncl (Psych) (lr)		2	Missoula	
Foot, Eugene Barton	Law	Jr.	1,2,3	Kalispell	
Foote, Clarence Edward	For		Sp.	1,2,3	Stratham, N. H.
Ford, Albert R.	SQ		4	Eureka	
Foree, Eula Eunetia	SQ		4a	Epsie	
Forrest, George B.	For		Fr.	2	Missoula
Fosterling, Lysle L.	AS		Fr.	1,2,3	Missoula
Fowler, Ruth Peters	AS		So.	1,2,3	Conrad
Francis, Frank P.	AS		Fr.	1,2,3	Missoula
Franco, Felix	For		Sr.	4b,1,2	Mexico, P. I.
Fraser, William Avon	Bus Ad		Fr.	1,2,3	Spokane, Wash.
Freeman, Charles Powell	Jrl		Fr.	1,2,3	Missoula
Freeman, Jean Paul	Law		Sr.	1,2,3	Great Falls
Freisleben, George F.	SQ		4	Westby	
Frey, Sister E. J.	Uncl (lr)		1,2,3	Missoula	
Friauf, Carolyn A.	SQ	Mus Sp.	4a	Missoula	
Frodema, Stanley John	For		Sp.	2,3	Chicopee, Mass.
Frohlicher, Eugenie E. C.	AS		So.	1,2,3	Kalispell
Frost, James Anthony	For	Rgr	2	Ephraim, Utah	
Fry, William E.	For		So.	1,2,3	Roberts
Fryer, Frank Lester	Bus Ad		Fr.	1,2,3	Livingston
Fuller, Robert N.	Bus Ad		So.	1,2,3	Helena
Fullerton, Howlett H.	AS		Fr.	1,2	Hamilton
Fullmer, Thelma Leona	Bus Ad		Fr.	1,2,3	Pullman, Wash.
Gaily, Doris	AS		So.	1,2,3	Anaconda
Gallagher, Francis T.	Bus Ad		So.	1	Missoula
Galvin, Geraldine M.	SQ		4a	Martinsdale	
Galvin, Mary Dorothy	SQ		4a	Martinsdale	
Galvin, Wilhelmina	SQ		4a	Martinsdale	
Garr, Gladys L.	SQ		4a	Dell	
Garrett, Harold H.	Bus Ad		Fr.	1,2	Baker
Garvin, Luke D., Jr.	Pharm		Fr.	1,2,3	Butte
Gates, Dewey F.	For		Sp.	1,2,3	Moorhead, Minn.
Gault, John McPherson, B.A.	Law		Gr.	4a,1,2,3	Great Falls
George, William B., Jr.	Law		Fr.	1,2	Billings
Gerard, Claude C.	For		Sp.	1	Laurel
Gerber, Mrs. Paul	AS	(lr)	Sp.	2,3	Missoula
Gessner, Bernhart Frank	Mus		Jr.	1,2,3	Glendive
Getty, Mary Helen	AS		So.	4a,1,2,3	Missoula
Gex, Phyllis	SQ		4	Bozeman	
Gibson, Kathleen Ellen	Mus		So.	1,2,3	Livingston
Gibson, Vivian Grace	AS		So.	1	St. Paul, Minn.
Giese, Dorothy M.	AS		So.	1,2,3	Ronan
Gillespie, James D.	Bus Ad		So.	1,2,3	Lothair
Gillespie, Reginald R.	Bus Ad		Fr.	1,2,3	Spencer, Ia.
Gillmore, Esther M.	SQ		4b	Barton, N. D.	
Giulio, John	For		Sp.	2,3	Corbin

Name	Cur-riculum	Rank	Quarters in Attendance	Residence
Girard, Mrs. James W.	AS (lr)	Sp.	3	Missoula
Gleason, Josephine H.	SQ		4a	Detroit, Mich.
Gnose, Olive Corona	Pharm	Jr.	1,2,3	Anaconda
Godfrey, Jewell	AS Mod	Lang. Sr.	1	Helena
Goff, Lillian Belle	Bus Ad	Jr.	1,2,3	Valier
Goodenough, Bertram W.	AS Geol	Jr.	2,3	Oakland, Cal.
Gottfried, Aaron	AS	Fr.	1	New York, N. Y.
Goza, Samuel D., Jr.	AS	Fr.	1,2,3	Helena
Graham, Donald H.	For	Fr.	1,2,3	Pittsburgh, Pa.
Graham, Myrtle Jane	SQ		4	Missoula
Graham, Robert C.	AS	Fr.	1,2,3	Missoula
Graham, Russell Edward	Bus Ad	Sp.	1	Missoula
Grant, Dale Cook	For	Sp.	1,2,3	Monico, Wis.
Grant, Hazel Marguerite	AS	Fr.	1	Butte
Grass, Joseph Smith	AS	Fr.	1,2	Van
Graves, Abigail T.	AS	So.	4a,1,2,3	Missoula
Graves, Margaret E.	Bus Ad	Fr.	1,2,3	Polson
Graves, Mary S.	SQ		4	Missoula
Gravlin, Fred Henry	For	Sp.	1,2,3	Missoula
Graybeal, Herbert E.	AS	Fr.	1,2,3	Cascade
Greenhood, Henry W.	SQ	Mus Sp.	4a	Missoula
Greenough, Elsie M.	SQ		4a	Butte
Gregory, Helen	Jrl	Jr.	1,2,3	Billings
Gretencort, Steve A.	AS	Fr.	2	Lewistown
Griffin, Catherine C.	SQ		4	Missoula
Griffin, Helen Frances	AS	So.	1,2,3	Missoula
Griffiths, Albert E.	AS	Sp.	1,2,3	Great Falls
Griffiths, Stanley D.	AS	Fr.	1,2,3	Butte
Grimshaw, Jean B.	SQ		4a	Anaconda
Griswold, Keith Donald	AS Geol	Jr.	1,2,3	Missoula
Gross, Clementine M.	Uncl (lr)		1	Missoula
Grosvenor, Wallace P.	AS	Sp.	1	Casselton, N. D.
Grycmaker, Daisy M. (Mrs.)	SQ		4b	Great Falls
Grycmaker, Louis	SQ		4	Great Falls
Gudmunsen, Ovidia	Jrl	So.	1,2,3	Rapelje
Gudmunsen, Viola B.	Mus	Fr.	1,2,3	Rapelje
Gunning, Nellie E., B.A.	SQ		4	Butte
Guthrie, Alfred Bertram	Jrl	So.	1,2,3	Choteau
Gwin, Ira Arlington	SQ		4	Sunburst
Hadeen, Erik A., B.A.	AS Hist	Gr.	4,2,3	Missoula
Haight, William H.	Bus Ad	Fr.	1,2,3	Livingston
Haley, Lucia, B.A., Univ. of Washington	SQ (lr)		4a	Missoula
Hall, Anne Marion	AS	Fr.	1,2	Missoula
Hall, Esther	AS Home Ec.	Sr.	4,1,2,3	Belfry
Hamel, Dorothy	SQ		4a	Vancouver, Wash.
Hamilton, Edith Belle	AS Phys Ed.	Sr.	1,2,3	Butte
Hamilton, Viola Gertrude	AS Hist	Sr.	4,1,2,3	Missoula
Hanes, George J.	For	Sp.	3	Keokuk, Ia.
Hansen, Clara M.	SQ		4a	Mona
Hansen, Estelle Marie	SQ		4a	Missoula
Hansen, Hans C.	Bus Ad	Sr.	1,2,3	Worden
Hansen, Karen	SQ		4b	Wilbur, Wash.
Hanson, Helen Louise	AS	Fr.	1,2	Bison, S. D.
Hansen, Florence (Mrs.) B.A.	AS Educ	Gr.	2,3	Missoula
Hardenberg, Elmer P.	Bus Ad	Fr.	1,2,3	Scobey
Harken, Rudolph C.	For	Fr.	1,2,3	Cartersville
Harker, Margaret E.	AS	Fr.	1,2,3	Billings
Harlan, William B.	For	Sp.	2,3	Bozeman
Harner, Muriel	AS Phys Ed.	Jr.	1,2,3	Missoula
Harper, Leland Alfred	Bus Ad	So.	1,2,3	Warland
Harpole, Eugene	Law	Sr.	1,2,3	Patterson, Ia.
Harrington, Kathryn C.	SQ		4	Butte
Harris, Frances	AS	Fr.	1,2,3	Kellogg, Ida.
Harris, James Claude	Bus Ad	Sr.	1,2,3	Butte
Hartley, Ruth Gertrude	Mus	So.	1	Conrad
Harvey, Dorothy	SQ		4a	Hamilton
Harvey, Eleanor	Uncl (lr)		2	Missoula
Harvey, John Brock	AS	Fr.	1,2,3	Missoula
Harvey, Melvina Louise	SQ		4a	Great Falls
Hassler, Donna Gertrude	SQ Mus Sp.		4a	Missoula
Hathorn, Elizabeth	AS	Fr.	1	Billings
Hauck, Catherine Dorothy	AS	So.	1,2,3	Philipsburg
Haugland, Philip J.	Law	Fr.	1,2	Bozeman
Hawk, Howard Barr	AS Fine Arts	Jr.	1,2,3	Missoula

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Name	Curriculum	Rank	Quarters in Attendance	Residence
Hayes, Florence	AS Eng	Sr	4,1,2,3	Missoula
Hayes, Marion Thelma	Mus Sp		1,2	Missoula
Hayes, S. Bernice	AS	So	4,1,2,3	Missoula
Hazen, Harriet W.	SQ		4	Pendleton, Ore.
Healy, John William	AS	Fr	1,2,3	Anaconda
Heath, Cora A.	AS (lr)	Sp	1	Missoula
Hebert, Marian	SQ		4	Three Forks
Hebert, Virginia Pauline	AS	Fr	1	Three Forks
Hedges, Forest Kenneth	Bus Ad	Sp	1,2	Helena
Hedges, Harry E.	Bus Ad	Fr	1,2,3	Helena
Hein, Lora Martha	SQ		4a	Baker
von Heinrichshofen, Ella	Bus Ad	So	2,3	Seattle, Wash.
Helm, Myrtle	SQ		4	Florence
Helvik, Lottie J. B.A.	SQ		4a	Darby
Hemmick, Ellen L., B.A.	AS	Gr	2	Missoula
Henderson, Marguerite	Bus Ad	Jr	1,2,3	Miles City
Hendron, Harold H.	For	Sr	1,2,3	Dayton, Wash.
Hennigan, Marie Moore	Bus Ad	So	4a,1,2,3	Butte
Henrikson, Stella (Mrs.)	AS (lr)	Sp	1	Missoula
Herman, Hazel F., B.A.	SQ		4	Missoula
Hershey, Alice	AS	Fr	1,2,3	Missoula
Hershey, Elizabeth, B.A.	SQ		4a	Missoula
Hess, Barbara	SQ		4	Devon
Hibbord, Lorene E.	SQ		4	Baker
Hickey, Joyce L.	SQ		4	Victor
Higbee, Lawrence L.	Jrl	Jr	1,2,3	Missoula
Higgins, Edna Lindsay	AS	So	1,2,3	Eczenan
Higgins, Mae Crosby	Pharm	Jr	1,2,3	Ringling
Hill, Florence	SQ		4	Deer Lodge
Himes, Florence Marion	AS	Fr	1,2,3	Missoula
Himes, Mildred Virginia	AS Lib Sc	Jr	4a,1,2,3	Missoula
Hines, Eugene Lawson	Bus Ad	Sp	1,2,3	Lewistown
Hirst, Edward Lodge	For	So	2	Deer Lodge
Hiadik, Ruth Marie	Jrl	Fr	1,2,3	Missoula
*Hoar, Clara Harjett	AS	So	1,2,3	Butte
Hobart, A. Erwin	AS	So	1,2,3	Los Angeles, Cal.
Hobson, Mrs. James D.	Mus Sp		4a,1	Missoula
Hoem, Inga A.	AS Phys Ed	Sr	1,2,3	Butte
Hoffman, Jay S.	Jrl	Fr	1,2,3	Belgrade
Hoiles, Morse, B.A.	Bus Ad (lr)	Gr	2	Dixon
Holden, George Francis	Law	So	1,2,3	Missoula
Holgren, Mabel Grant	SQ (lr)		4a	Missoula
Holkesvig, Walter Raymond	AS	So	1,2,3	Great Falls
Hollensteiner, Neola	AS Mod Lang	Sr	1,2,3	Lolo
Holloman, Elsie C.	AS	So	1,2,3	Missoula
Holloman, Inez C.	AS	Fr	1,2,3	Missoula
Holloway, John P.	For	Sp	1	Washington, Ind.
Holmes, William C.	Mus Sp		2,3	Missoula
Hopkins, Hazel Hayes	Bus Ad	Fr	1,2,3	Roundup
Hopkins, Marie Lockett	AS	So	1,2,3	Wickliffe, Ky.
Houck, Charlene Iva	Mus	Fr	1,2,3	Rossvork
Houck, Mildred	Mus Sp		2,3	Choteau
Houck, Reba Marguerite	AS	So	1,2,3	Lewistown
Houck, Ruth	Mus Sp		1	Rossvork
Hough, Josephine A.	SQ		4	Pierce, Neb.
Houle, Harry Joseph	Jrl	Sp	2,3	Great Falls
Howard, George William	Law	Jr	1,2,3	Butte
Howd, Emily	AS	So	1,2	Hamilton
Howe, Elmer Bernard	SQ		4	Missoula
Howe, Rebecca K.	AS	So	2,3	Missoula
Hovt, H. Harrison	For	Jr	2,3	Estes Park, Colo.
Hubbard, Elizabeth	AS (lr)	Sp	3	Missoula
Hubber, Gertrude L.	Bus Ad	So	1,2,3	Belt
Hudson, Leo N.	Bus Ad	Sp	2,3	Opportunity, Wash.
Hughes, Bess Totman	Uncl		2,3	Missoula
Hughes, William Franklin	AS	So	1,2,3	Missoula
Hunt, Helen Gertrude	AS	Fr	1,2,3	Glendive
Hurlly, Dorothy	SQ		4	Baker
Hurzeler, Gladys Lillian	SQ		4a	Butte
Hutchens, Helena Fuller	AS	So	1,2,3	Missoula
Hutchinson, Frank E.	For	Sr	1,2,3	Wellington, New Zealand
Hutchinson, Isabelle M.	Jrl	Fr	1,2,3	Whitefish
Hutton, Dorothy Alice	Mus	So	1,2,3	Jeffers
Hyde, Nona Grace	AS Math	Jr	4a,1,2,3	Missoula



Name	Cur-riculum	Rank	Quarters in Attendance	Residence
Inch, Herbert Reynolds	AS	Fr.	4,1,2,3	Missoula
Ingram, Helen	AS Eng	Jr.	4,1,2,3	Watkins
Ireland, Elisabeth	SQ		4a	Hayre
Irvine, Edwin T.	Law	So.	4a,1,2,3	Phillipsburg
Jackman, Roscoe Elmer	AS Chem	Sr.	1,2,3	Missoula
Jacobs, Theodore	AS	Fr.	1,2,3	Missoula
Jacobsen, Mabel	AS	Fr.	1,2,3	Ovando
Jacobson, Arthur Clarence	Bus Ad	Jr.	1,2,3	Missoula
Jacobson, Ruby I., B.A., M.A., Univ. of Wisconsin	AS (Ir)	Gr.	3	Missoula
Jahreiss, Margarethe Doris	AS	Fr.	1,2,3	Butte
James, Lois Harriet	Law	Jr.	1,2,3	Anaconda
James, Ruth Almyra	AS Home Ec.	Jr.	1,2,3	Anaconda
Jameson, Lucille	AS Hist	Jr.	1,2,3	Missoula
Jameson, William J., Jr., B.A.	Law	Gr.	1,2,3	Missoula
Janusko, Katherine A.	AS (Ir)	Sp.	1,3	Missoula
Jarl, Ruth Evelyn	AS Hist	Sr.	1,2,3	Great Falls
Jensen, Florence Vivian	AS Eng	Sr.	4b,1,2,3	Butte
Johnson, Annie	SQ		4	Missoula
Johnson, Ellen Marie	Bus Ad	Fr.	1,2,3	Butte
Johnson, Elizabeth Virginia	SQ		4	Victor
Johnson, Esther	AS	Fr.	1,2,3	Missoula
Johnson, H. Clarence	AS	Fr.	1,2,3	Glasgow
Johnson, Isabelle J.	AS Hist	Jr.	1,2,3	Absarokee
Johnson, James Arthur	Bus Ad	Sr.	1,2,3	Missoula
Johnson, Karen Belle	SQ		4	Towner, N. D.
Johnson, Lillian E.	SQ		4a	Missoula
Johnson, Ruth Eva	Pharm	Fr.	1,2,3	Victor
Johnson, Theodore William	AS	Fr.	1,2,3	Deer Lodge
Johnston, Margaret	AS	So.	1,2,3	Billings
Johnston, William	For	Sp.	1,2,3	New York, N. Y.
Jones, Edith C.	AS	Fr.	1,2,3	Great Falls
Jones, Lois T.	AS	So.	1,2,3	Missoula
Jones, Pansy C.	SQ		4	Saco
Jordan, Arthur Dillon	Bus Ad	So.	1,2,3	Helena
Jordan, Rachel V.	AS	So.	1,2,3	Columbia Falls
Joy, Charles A.	For	Jr.	1,2,3	Missoula
Joyce, Mary Lucile	AS Phys Ed	Jr.	4,1,2,3	Whitehall
Joyce, Opel May	Mus	Fr.	1	Ronan
Kain, Ronald Stuart	Jrl	Jr.	1,2,3	Helena
Kalra, Frances May	Bus Ad	Fr.	4a,1,2,3	Missoula
Kalousek, Agnes	AS	Fr.	1,2,3	Butte
Karcher, Gertrude M.	Jrl	So.	1,2,3	Kalispell
Karr, Thomas K.	For	So.	2,3	Bozeman
Keeley, Elias P. M.	Law	Sr.	1,2,3	Vancouver, B. C.
Keene, Gwendoline, B.A., Wellesley College, Wellesley, Mass.	Jrl	Gr.	1,2,3	Missoula
Keene, Philip	AS	Fr.	1,2,3	Missoula
Keim, Custer	For	Fr.	1,2,3	Missoula
Keith, Constance	AS Mod Lang	Sr.	4,1,2,3	Missoula
Keith, Helen Ascenath	AS	Fr.	2,3	Kalispell
Keith, Katherine	AS	Fr.	1,2,3	Missoula
Kelley, Tesse Catherine	AS	Fr.	1,2,3	Butte
Kelly, Francis Patrick	SQ		4a	Butte
Kelly, Madeleine A.	SQ		4a	Missoula
Kelly, Simon Cameron	Uncl (Ir)		1,2	Missoula
Kenline, Fred W.	For	Sp.	1,2,3	Alden, N. Y.
Kennedy, Thomas John	For	Sp.	1,2,3	Holyoke, Mass.
Kent, Sidney	Bus Ad	So.	1,2,3	Dundee, Ill.
Kenyon, Henry George	Bus Ad	Fr.	1,2,3	Laurel
Keough, Margaret M.	AS	So.	1,2,3	Anaconda
Kerlaouezo, Armand V.	SQ		4a	Southern Cross
Kersbergen, William G.	SQ		4a	Ringling
Kershner, Leroy	Jrl	So.	1,2,3	Billings
Kibble, Raymond Albert	Bus Ad	So.	1,2,3	Roundup
Kiely, Margaret Ellen	Jrl	Fr.	1,2,3	Butte
Kiff, Herbert C.	Mus	Sp.	1	Missoula
Kiff, RuSearle Donald	Mus	Sp.	1,2,3	Missoula
Killoy, Norine R.	AS	Fr.	1,2,3	Butte
Kinnex, Ottie	SQ		4a	Glendive
Kinnick, John	For	Sp.	3	Laurel
Kirkwood, Robert Hoyt	AS	Fr.	1,2,3	Missoula
Klammer, Florence A.	AS Lib Sc	Jr.	4a,1,2,3	Worden
Klammer, Myrtle Emily	SQ		4a	Worden

Name	Curriculum	Rank	Quarters in Attendance	Residence
Kninsky, Jacob J.	For (lr)	Sp	3	Meriden, Conn.
Knapp, Rosella C. (Mrs.)	SQ		4	Missoula
Knights, Alice Fern	Uncl (lr)	1		Edmonton, Alberta
Knights, Winifred M.	Uncl (lr)	1		Edmonton, Alberta
Knowles, Vera Helen	Jrl	Sr	1,2,3	Missoula
Knox, Marcia	SQ		4	Baker
Knuth, Ethel W.	Mus	Fr	1,2,3	Butte
Knutson, Mable S., B.A.	AS Eng	Gr	4a,1,2,3	Missoula
Korman, Solomon B.	AS	So	4,1,2,3	New York, N. Y.
Korslund, Harold Dunham	Bus Ad	Fr	1	Bozeman
Kramer, Wilbur P.	Law	So	1,2,3	Franklin, La.
Kreklan, Adelaide L.	Bus Ad	Sp	1,2,3	Missoula
Kreklan, Ernest Julius	For	Sp	3	Missoula
Kuehn, William S.	Law	Fr	1,2	Helena
Kumnick, Henry H., B.A., Concordia College	Law	Gr	1,2,3	Missoula
Kurtsahn, Peggy H. (Mrs.)	AS	Fr	1,2,3	Shelby
Kurtsahn, William F.	Bus Ad	Sp	1,2,3	Shelby
LaGrange, Harl Clinton	Pharm	Fr	1,2,3	Raymond
Lambert, George James	AS	So	2	Roundup
Lambert, Lahman D.	For	So	1,2,3	Surrey, N. D.
Laraya, Sixto	For	Jr	1,2,3	San Jose, P. I.
Larkin, Clarence P.	Bus Ad	Fr	1,2,3	Red Lodge
Larkin, William Roger	Bus Ad	Sr	1,2,3	Red Lodge
Larson, Olga Irene	AS	So	4,1,2	Missoula
Laux, Mary Margaret	AS Phys Ed	Sr	4,1,2,3	Kalispell
Lavigne, Filicite	AS (lr)	Sp	3	Missoula
Law, DeWitt Thomas	Law	Sp	4,1,2,3	Emmetsburg, Ia.
Lawrence, Frederick A.	AS Chem	Sr	1,2,3	Missoula
Leary, Dorothy Marie	Jrl	Fr	1	Butte
Leary, Viola Ann	AS	So	1,2,3	Butte
Leach, Florence Edith	AS	Fr	1,2,3	Missoula
Lebkicher, Austin W.	Jrl	Sp	1,2,3	Miles City
Lebkicher, Virginia E.	AS	Fr	1,2,3	Miles City
LeClaire, Algeroy C.	AS Physics	Jr	1,2,3	Missoula
Lee, Anastasia	SQ		4a	Columbia Falls
Lee, Bernard	For	Sp	2,3	Glenwood City, Wis.
Lee, James Vincent	AS	Fr	1	Butte
Lemon, Stuart Wood	Bus Ad	Fr	1,2,3	Florence
Lennon, Margaret E.	AS	Fr	1,2,3	Roundup
Lenon, Lucile	AS Mod Lang	Jr	1,2,3	Missoula
Lestrud, Violet B.	SQ		4a	Choteau
Levac, Eglantine	AS (lr)	Sp	3	Missoula
Levin, Oscar Richard	For	Fr	2	Virginia, Minn.
Lewis, Russel King	AS	So	4a,1,2,3	Terry
Leyda, Margaret Lucille, B.A., Univ. of Nebraska	AS (lr)	Gr	1,2	Falls City, Neb.
Lind, J. Allan	AS	Fr	1,2,3	Butte
Linderman, Wilda Jane	AS Eng	Sr	1,2	Somers
Lindstrom, Harold M.	Bus Ad	Fr	1,2,3	Hardin
Lines, Gladys Margaret	Pharm	So	1,2,3	Superior
Little, Helen	AS Phys Ed	Sr	1,2,3	Hamilton
Little, Helen Amitys	AS Phys Ed	Sr	1,2,3	Butte
Littleton, Milford	For	Sp	3	Grayson, Kv.
Lockridge, Earl Forest	Bus Ad	Fr	2,3	Stevensville
Lockwood, Charles Lloyd	Bus Ad	Sr	2,3	Missoula
Logan, Frank Eugene	For	Sp	3	Billings
Logue, Clarence S.	Jrl	Fr	1,2,3	Missoula
Loman, Tella M. (Mrs.)	Uncl (lr)		1	Missoula
Long, Reatha L.	AS	Fr	1	Lewistown
Longeway, Margaret E.	AS	So	1,2,3	Great Falls
Lore, Eugene A.	Bus Ad	Fr	1,2,3	Billings
Lore, Mildred Theone	AS Eng	Jr	1,2,3	Billings
Lowe, Genevieve N.	SQ		4	Ismay
Lowery, Anna Edith	SQ		4	Garnet
Lucas, Douglas Porter	Uncl (Psych) (lr)		2	Missoula
Ludwig, Ulrich Max	For	So	2	Perry, Tex.
Lundborg, Montana	AS	Fr	1,2,3	Billings
Lundell, Evert G.	Bus Ad	Fr	1,2,3	Sand Coulee
Lynch, Rodman Henry	For	Sp	1,2	Malden, Mass.
Lynch, Wallace M. V.	Pharm	Sp	1,2,3	Billings
Lyons, Catherine	SQ		4a	Missoula
Lyons, Leonard William	For	Sp	2,3	Stephen, Minn.
McAdam, Raymond Best	AS Pre Med	Jr	1,2,3	Helena
McAleer, Kathryn C.	SQ		4a	Wolf Point

Name	Cur-riculum	Rank	Quarters in Attendance	Residence
McAllister, Adalouie	AS Eng	Jr.	1,2,3	Missoula
McAuliffe, Anne Marie	Bus Ad	Fr.	1,2,3	Butte
McAuliffe, John T.	AS	Fr.	1,2,3	Butte
McBride, Margaret Ellen	SQ		4a	Butte
McCall, Linda Werner	SQ		4a	Whitehall
McCann, Caroline	Jrl	Sr.	4,1,2,3	Chinook
McCarthy, Anna Mary	AS	Fr.	1	Glasgow
McCarthy, Joanne	Bus Ad	Fr.	1,2,3	Butte
McCarthy, Mary Genevieve	Bus Ad	So.	1,2,3	Butte
McCollum, Morris Herbert	Bus Ad	Jr.	2,3	Lewistown
McConnell, Earl	For Rgr		2	Grangeville, Ida.
McConnell, Margaret E.	Bus Ad	Fr.	1,2,3	Ronan
McConnell, M. Velma	AS	Fr.	1,2,3	Lewistown
McConnell, Marshall H.	AS	So.	1,2,3	Helena
McCracken, Junior Cresap	Bus Ad	Fr.	1,2,3	Livingston
McCrosson, Catherine	SQ		4a	Yakima, Wash.
McDonald, Charles Haskin	For	So.	1,2,3	Columbus
McDonnell, A. Ronald	Bus Ad	Fr.	2,3	Big Timber
McDonnell, Elizabeth Ann	Bus Ad	Fr.	1,2,3	Lewistown
McDougall, Aaron A.	AS Math	Jr.	3	Shell, Wyo.
McElwain, Robert Hudson	For	Sp.	1,2	Lewistown
McFadden, Harry E.	Bus Ad	Fr.	1,2,3	St. Ignatius
McGinley, Jane Monica	Bus Ad	Fr.	1,2,3	Roundup
McGinn, Mary	SQ		4	Winnett
McGlaughlin, Therma L.	SQ		4a	Kalispell
McGowan, Margaret J.	SQ		4	Boulder
McGuffey, Selma (Mrs.)	Mus Sp		2	Missoula
McGuire, Gordon Gerald	AS	Fr.	1,2,3	White Plains, N. Y.
McGuire, Theresa Marjorie	Mus Sp		3	Missoula
McGuire, Virginia Marie	AS	Fr.	1,2,3	Anaconda
McIntosh, Mautie H.	SQ		4	Ryegate
McKain, Neil Dunn	Jrl	Jr.	1,2	Missoula
McKay, Margaret Ann	AS	Fr.	1,2,3	Harlowton
McKay, Olive Jean	AS	Fr.	1,2,3	Glasgow
McKenzie, Lelia Belle	AS	Fr.	1,2,3	Miles City
McKenzie, Paul H.	For	Sp.	2,3	Delaware, O.
McKinnon, Eugene Thomas	Jrl	So.	1,2,3	Helena
McKoin, Clarence Kay	AS Math	Jr.	1,2,3	Lewistown
McKown, Nathaniel A.	Jrl	Fr.	1,2,3	Great Falls
McLaren, Erie Montana	Bus Ad	Fr.	1,3	Helena
McMahon, Florence E.	SQ		4a	Missoula
McMahon, Francis Edmund	Bus Ad	Sp.	4,1,2	Butte
McManis, Sarah	SQ		4a	Butte
McMillan, Duncan	Law	So.	1,2,3	Butte
McMurry, Grace M.	Mus Sp		1,2	Missoula
McNair, Sarah	AS	So.	2,3	Great Falls
McNaughton, Lucille	AS (lr)	Sp.	3	Missoula
McNerney, Edward J.	For	Sp.	1,2,3	Lowell, Mass.
McNinch, Opal	AS	So.	1,2,3	Great Falls
McQuarrie, Irene Grace	AS	Fr.	4b,1,2,3	Missoula
McQuarrie, Mildred A.	Jrl	Fr.	1,2,3	Missoula
McOnay, Ruth	AS Math	Jr.	1,2,3	Butte
McRae, Madge Geraldine	AS	Fr.	1,2,3	Hall
MacDonald, Ida Mildred	AS Hist	Jr.	1,2,3	Missoula
MacFarlane, John Neil	AS	So.	1,2,3	Poplar
MacGowan, Tom	AS	So.	1,2,3	Lewistown
MacHaffie, Hazel Wells	AS	Fr.	1,2,3	Helena
MacHatton, Robert	Jrl	Jr.	1,2,3	Missoula
MacKeen, Bernice Florence	Mus	Fr.	1,2,3	Butte
MacKinnon, Catherine F.	AS	Fr.	1,2,3	Boulder
MacPherson, Irene D.	AS	Fr.	1,2,3	Butte
Macdonald, Hugh Alan	Jrl	Sp.	1,2,3	Kalispell
Mace, Ezra O.	For	Sp.	1,2,3	Missoula
Mace, Kathleen L. A.	SQ		4a	Missoula
Macclay, Carrie V. B.A.	AS Econ	Gr.	3	Missoula
Macclay, Elizabeth B.	AS Biol	Sr.	4a,1,2,3	Lolo
Macclay, Emily Richardson	AS	So.	1,2,3	Lolo
Macclay, Nelma F.	AS	So.	1,2,3	Lolo
Macclay, Samuel Sinclair	AS Biol	Jr.	1,2,3	Lolo
Madon, Marie Lucie	AS (lr)	Sp.	1	Lolo
Madsen, Edward George	For	Sp.	1	Missoula
Madsen, Lloyd A.	AS	Jr.	1,2,3	Miles City
Magee, Marion	AS	So.	1,2,3	Miles City
Magee, Marion	Mus Sp		1,2,3	Missoula
Maguire, Henry Patrick	For	Sp.	1,2,3	Ladysmith, B. C.
Maley, Frances Jean, B.A.	AS Psych (lr)	Gr.	2	Missoula

Name	Curriculum	Rank	Quarters in Attendance	Residence
Malin, Reba	AS	So.	1,2,3	Hamilton
Mallory, Leo R.	AS	Fr.	1,2,3	Polson
Malloney, Florence Ann	Mus Sp		2,3	Missoula
Mangan, Louise	SQ		4a	Sprague, Wash.
Mann, Mary	AS (lr)	Sp.	1,3	Missoula
Marantette, Delia Louise	AS (lr)	Sp.	1,3	Kalispell
Maris, Angeline	SQ		4	Butte
Marlowe, Elinor K.	Mus Sp		2,3	Missoula
Marsh, John Thomas	For	Sp.	1,2,3	Interlaken, N. Y.
Martin, Gayle	AS	Fr.	1,2,3	Glendive
Martin, Philip Richard	Bus Ad	Fr.	1,2,3	Valley City, N. D.
Mascotte, Azlyn	Bus Ad	Fr.	1,2,3	Anaconda
Massey, Maude Gail	SQ		4a	Ellomau
Matsler, Mabel Angeline	SQ		4	Townsend
Matteson, Leroy Talbot	For	Sp.	1,2	Bristol, Mass.
Matthews, Annie Maria	Uncl (lr)		2	Missoula
Matthews, Persis R.	AS	Fr.	1,2,3	Townsend
Mattson, J. Arthur	AS	So.	1,2,3	Butte
Mauritson, Bertha, B.A., Sioux Falls College, Sioux Falls, S. D.	SQ		4	Billings
Mead, Charles H.	Uncl (lr)		4,1,2	Thompson Falls
Meagher, Eleanor	AS	Fr.	1,2,3	Butte
Meeks, Winifred Anne	AS Hist	Sr.	1	Great Falls
Mefford, Theodore Grant	For Rgr		2	Missoula
Meisenbach, Frances (Mrs.)	AS (lr)	Sp.	1	Missoula
Mengon, Irma Anne	AS	Fr.	1,2,3	Columbia Falls
Mennell, Estella P.	AS	Sp.	4,1,2,3	Missoula
Merrill, Robert Thomas	Law	Sp.	1,2,3	Havre
Merritt, Russell Leland	Bus Ad	Fr.	1,2,3	Virginia City
Metcalf, Harriet Lee	SQ		4	Stevensville
Meyers, Mabel	SQ		4	Westby
Mikkelson, John Henry	Bus Ad	Fr.	1	Bozeman
Miller, Dorothy E.	AS Home Ec	Sr.	4a,1,2,3	Missoula
Miller, Keith H.	SQ		4a	Lake City, Mich.
Miller, Mable Evelyn	SQ		4	Piniele
Miller, Raymond Martin	AS	Fr.	1,3	Miles City
Miller, Ruth Edwina	AS	Fr.	1,2,3	Stevensville
Minges, Ralph V.	For Rgr		2	Arvada, Colo.
Mitchell, Eleanor L.	AS Mod Lang	Jr.	1,2,3	Townsend
Mitch, Charles Whitefield	For	Sp.	1,2,3	Fairbanks, Alaska
Moen, Blanche, B.A., Univ. of North Dakota	SQ		4a	Culbertson
Moffett, Eunice Tina	AS	So.	1,2,3	Missoula
Mohr, Emelyn Isabelle	SQ		4a	Plevna
Monteath, Udena (Mrs.)	AS (lr)	Sp.	3	Missoula
Moody, Gertrude Elsie	AS	Fr.	1,2,3	Missoula
Mooney, Guy Hastings	Jrl	Sr.	4,1,2	Judith Gap
Moore, Cecil John	Pharm	Fr.	1,2,3	Butte
Moore, Clarence Eugene	SQ		4	Boulder
Moore, Dorothy	AS Phys Ed	Jr.	1,2,3	Missoula
Moore, Dorothy Dean	AS Bot	Jr.	1,2,3	Helena
Moore, Laura D. (Mrs.), B.S., Kansas State Col.	AS Eng	Gr.	1,2,3	Missoula
Moore, Nina Alice	AS	Fr.	1,2,3	Helena
Moriarty, John Thomas	Jrl	So.	1,2	Great Falls
Morris, Edna M.	Bus Ad	Fr.	1,2,3	Missoula
Morris, Elmer Franklin	AS	Sp.	2	Drummond
Morris, James Joseph	AS	So.	1	Great Falls
Morrison, Martha	Jrl	So.	1,2,3	Libby
Morse, Virginia Louise	AS	So.	1,2,3	Billings
Mosby, Ellsworth Charles	Jrl	Sr.	1,2,3	Kalispell
Mosby, Victoria A.	AS	So.	4,3	Eureka
Moser, Wilbur Earl	SQ		4	Geyser
Moser, Mrs. Wilbur E.	SQ		4	Geyser
Muckler, Gretchen E.	AS	Fr.	1,2,3	Missoula
Mulloney, Mary C. (Mrs.)	Mus Sp		1,2,3	Missoula
Murphy, Agnes	SQ		4a	Vancouver, Wash.
Murphy, Anne Therese	SQ		4	Boulder
Murphy, Clyde Francis	Law	Sp.	1,2,3	Anaconda
Murphy, James C.	For	Jr.	1,2,3	Litchfield, Minn.
Murphy, Kenneth John	AS	So.	1,2,3	Butte
Murphy, Norine Bernadette	AS Eng	Sr.	1,2,3	Helena
Murphy, Raymond Charles	AS	So.	1,2,3	Anaconda
Murphy, Regina	AS	So.	1,2,3	Whitehall

Name	Cur- riculum	Rank	Quarters in Attendance	Residence
Murray, Francis J.	SQ		4	Simms
Murray, Mabel	SQ Mus Sp		4	Twete
Murray, Margaret Teresa	SQ		4	Page, Neb.
Murray, Marion Patricia	AS		So 4a,1,2,3	Butte
Murray, Sister Susanna	Uncl (lr)		1,2	Missoula
Murray, William Frederick	For		Sp 1	Holyoke, Mass.
Myers, Lawrence Cramer	Law		So 1,2,3	Butte
Myers, Remley Emanuel	For		Sp 2,3	Des Moines, Ia.
Nagle, Raymond Thomas	Law		Fr 2,3	Helena
Naibach, Irena Elizabeth	SQ		4a	Great Falls
Naughten, Ruth Elizabeth	Mus		Fr 3	Butte
Nedry, Ann	Uncl (lr)		4a,1,2	Ft. Smith, Ark.
Needham, Vern Whitfield	AS		So 2,3	Glendive
Neffner, Emma	Mus Sp		1,2	Dixon
Neill, Ralph Waldo	AS		Fr 1,2,3	Simms
Neiswanger, Everett A.	Bus Ad		Fr 1	Oskaloosa, Ia.
Nelson, Carl Tracey	AS		Fr 1,2,3	Butte
Nelson, Esther M.	AS		So 1,2	Missoula
Nelson, Letty Marie	SQ		4a	Pueblo, Colo.
Neufelder, Carl Valentine	For		Sp 2,3	Evansville, Ind.
Nevills, Ethel	Jrl		So 1,2	Conrad
New, Peter L.	For		Sp 4,1,2	Milwaukee, Wis.
Newlin, Herbert	For		Sp 3	Viola, Ia.
Newquist, Frank Albert	AS		Fr 1,2,3	Missoula
Neils, Clayton A.	For (lr)		Sp 3	Superior
Nichols, Edmund Orson	AS		Fr 1,2,3	Billings
Nickerson, Daniel Roscoe	Bus Ad		Fr 1,2,3	Butte
Nickolaus, Charles Adam	For		So 1,2,3	Reading, Pa.
Nickolaus, Howard M.	For		Fr 2,3	Reading, Pa.
Nicolls, Cecile Bernice	AS		Fr 1,2,3	Lewistown
Nielson, Andrew	For Rgr		2	Ephraim, Utah
Nielson, Merrill Loyd	For Rgr		2	Ephraim, Utah
Niles, Russell Denison	AS		Fr 1,2,3	Livingston
Niogret, Lucien Albert	For		Sp 1,2,3	Glasgow
Niswonger, Lynn Parker	Jrl		Sp 1	Whitefish
Norvell, John Caskey, Jr.	AS		Sp 1,2,3	Butte
Norville, Hugh W.	AS Math		Sr 4,1,2,3	Waterloo
Nutterville, Catherine	SQ		4a	Butte
O'Brien, J. Harold	AS		Fr 1,2,3	Butte
O'Connell, Helen Margaret	AS		Fr 2,3	Kalispell
O'Connor, Miles James	Law		Fr 1,2	Livingston
Oldham, Viola Grace	SQ		4	Inga
Olsen, Alvin Clarence	For		So 1,2,3	Havre
Olsen, Jeff Thomas	Bus Ad		Sp 1	Great Falls
Olson, Lillian Margaret	SQ		4a	Centralia, Wash.
O'Malley, Mercedes B.	Bus Ad		Fr 2,3	Billings
O'Neil, Dan Edwin	Bus Ad		Fr 1,2,3	Havre
O'Neil, Eugene Robert	Bus Ad		So 1,2,3	Havre
O'Neill, Katharine K.	SQ		4a	Butte
O'Neill, William J.	AS		So 2,3	Missoula
Onstad, Herbert Leroy	AS		Fr 1,2,3	Great Falls
Osness, Edwin George	AS		So 1,2,3	Huntley
Ostermeyer, Herman Carl	For		Sp 1,2	Clearwater
Ostler, James Rulon	For Rgr		2	Nephi, Utah
Ott, Max H.	For		Sp 1,2,3	Grand Haven, Mich.
Owen, Helen Augusta	SQ		4a	Baker
Owens, Frederick William	Bus Ad		Fr 1	Missoula
Owens, K. Irene	AS		Sp 1,2	Missoula
Owens, Thomas Ewart	Bus Ad		Sp 2	Kalispell
Painter, Wayne Fullerton	For		Fr 1,2,3	Belton, Mo.
Palin, Dale Arlistus	Bus Ad		Fr 2,3	Pedro, S. D.
Palin, Walter Fred	AS		Sp 1,2,3	Valier
Paquet, Regina	SQ		4a	Missoula
Park, Robert Hugh	For Rgr		2	Nephi, Utah
Parmelee, Ernest Banes	AS		So 1,2,3	Butte
Parmelee, Myrtle M., B.S.	SQ		4a	Missoula
Parsell, Jack Andrew	For Rgr		2	Kooskia, Ida.
Parsons, Homer W., B.A.	AS Psych		Gr 1,2,3	Forsyth
Parsons, Irene H.	Mus Sp		1,2,3	Forsyth
Paugh, Loula Vetter	SQ		4	Jeffers
Paul, Frank Goodwin	Bus Ad		Fr 1,2,3	Dillon
Paulson, Palmer Artlely	For		Sp 1,2,3	Moose Lake, Minn.
Paxson, Lelia Everetta, B.A.	Mus		Gr 1,2	Missoula
Payne, Lillian M.	Uncl (Psych) (lr)		4a,1,2	Missoula
Pearce, Matt	AS		So 1,2,3	Missoula

Name	Curriculum	Quarters in Attendance	Rank	Residence
Pearsall, Bonna Byrd	AS Eng	Jr.	1,2,3	Thompson Falls
Pease, Gertrude Lorna	Mus Sp		1,2,3	Missoula
Peat, Mary Lucile	AS	Fr.	1,2,3	Missoula
Peavy, Iva L. (Mrs.)	SQ		4a	Missoula
Peek, Orville W.	Pharm	Fr.	1,2,3	Missoula
Perkins, Muriel Joyce	AS	So.	1	Billings
Perry, Inez (Mrs.)	AS	Sp.	2,3	Missoula
Petersen, James William	For	Sp.	1,2,3	Roy
Peterson, A. Francis	Pharm	Fr.	1,2,3	Missoula
Peterson, Gunilda T.	SQ		4	Belmont
Petzoldt, Genevieve Neola	AS	So.	1,2,3	Lodge Grass
Pfaender, Therese C.	AS	Fr.	1,2,3	Missoula
Phelps, Dorothy Jayne	AS Biol	Jr.	4a,1,2,3	Missoula
Phillips, Anne Maude	SQ		4a	Baker
Phillips, Joseph Dale	Bus Ad	Sp.	2,3	White Sulphur Springs
Phillips, Ned Ward	Bus Ad	Fr.	1	Lavina
Phillpott, Alfretta Grace	AS	Fr.	1,2,3	Columbus
Phippis, Cecil Glenn	AS Math	Sr.	1,2,3	Misoula
Pierson, Harold Raymond	For	Sp.	1,2,3	Minneapolis, Minn.
Pitkin, Ward S.	For Rgr		2	Missoula
Platt, Edward L.	Law	Jr.	1,2,3	DuBois, Pa.
Platt, Lina	SQ		4a	Boyd
Plumley, Blanche E.	AS	Fr.	1,2,3	Missoula
Plummer, William Theodore	Bus Ad	Fr.	1,2,3	Stevensville
Pope, Ethel M.	AS	So.	1	Billings
Pope, Frances Elizabeth	AS	So.	1,2,3	Miles City
Popham, Edward Wilder	Law	Jr.	1,2,3	Corvallis
Porter, Gilbert Arthur	Bus Ad	So.	1,2,3	Stevensville
Porter, Heber Tullis	Pharm	Jr.	1,2,3	Belgrade
Porter, Ruth E., B. A.	SQ		4	Missoula
Porterfield, Minnie	Uncl (lr)		1	Fullerton, Neb.
Powell, E. Dorothy, B.A.	SQ		4a	Billings
Powell, Frances E.	Pharm	Fr.	1,2,3	Victor
Powell, Pauline Willard	AS Home Ec	Sr.	1,2,3	Ballantine
Price, Earle Edison	SQ		4a	Eureka
Price, Jeanette	Mus	Fr.	1,2,3	Baker
Proctor, Fred	For	Sp.	1,2	Middlebury, Vt.
Pruitt, William Hobart	For Rgr		2	Wuppe, Ida.
Puckett, Forgey, Reese, B.A., Ruskin College, Ruskin, Fla.	SQ		4	Ryegate
Puffett, Mildred A., B.A., Univ. of Iowa	AS (lr)	Gr.	1	Arnes, Ia.
Putnam, Marguerite E.	SQ		4	Missoula
Quast, Emma Ziesing	AS	Fr.	1,2,3	Corvallis
Quigley, Thomas James	For (lr)	Sp.	3	Sioux Falls, S. D.
Rabe, Hazel Helen	AS Hist	Jr.	1,2,3	Bozeman
Radtke, Leonard Benjamin	For	Sr.	4,1,2,3	Madison, Wis.
Raff, Lucinda	AS (lr)	Sp.	3	Missoula
Rafferty, Anna	Uncl (lr)		1	Missoula
Ragsdale, Jesse Grant, B.A., College of Idaho, Caldwell, Ida.	SQ		4a	Helena
Rainey, Norris	AS	Fr.	1,2,3	Glendive
Rakeman, Henry E.	Pharm	Jr.	1,2,3	Polson
Ramsey, Florence M.	AS	Fr.	2,3	Butte
Ramsey, Helen Elizabeth	Jrl	Fr.	1,3	Lewistown
Ramsey, Theodore Leslie	Jrl	So.	1,2,3	Lewistown
Ranes, Homer J.	For	Sp.	4,1,2,3	Thompson Falls
Raudabaugh, Lillian	SQ		4	Victor
Raymond, Ralph Leeroy	For	So.	2,3	Stevensville
Raynor, Arthur Henry	For	Sp.	1,2	Missoula
Rector, Dorothea Estella	AS	Fr.	1,2,3	Great Falls
Redding, G. A.	Bus Ad	Jr.	1,2,3	Helena
Reed, Gerald Evan	AS	Fr.	1,2,3	Stevensville
Reed, Verna Adelpia	SQ		4a	Victor
Reely, Ann, B.A.	SQ (lr)		4a	Missoula
Reely, G. Evan	Bus Ad	Sp.	1,2,3	Missoula
Regan, Louis Charles	For Rgr		2	Oakesdale, Wash.
Rees, John Alva	SQ		4a	Big Timber
Reidy, Charles (Mrs.)	AS (lr)	Sp.	1	Missoula
Reinhard, Ethel O., B.A.	AS	Gr.	4b,1,2	Missoula
Reitz, Harold J., B.S., Montana State College, Bozeman	SQ		4a	Terry
Remore, Marianne M.	SQ		4a	Missoula
Rennie, Mabel Virginia	SQ		4a	Fulton, Ill.
Rennie, Myrtle M. M.	SQ		4a	Fulton, Ill.

Name	Curriculum	Rank	Quarters in Attendance	Residence
Reynolds, Charles Harris.....	Pharm	Fr.	1,2	Fort Benton
Reynolds, Dorothy E.....	AS	So.	1,2,3	Stevensville
Reynolds, F. Gordon.....	AS	Fr.	1,2,3	Stevensville
Reynolds, Gladys.....	AS	Mod Lang Jr.	1,2,3	Butte
Reynolds, Harold Elias.....	AS	Fr.	1,2,3	Butte
Reynolds, Mildred Martha.....	AS	Fr.	1,2,3	Nine Mile
Rhodes, Martha Millman.....	SQ		4a	Chinook
Rhodes, Ralph Horace.....	Uncl		4a,2,3	Missoula
Rice, John D.....	Law	So.	1,2	Deer Lodge
Rice, Mary Byron.....	SQ		4a	Ovando
Richardson, Robert W.....	AS	So.	1	Missoula
Rider, Martha George, B.A., Kansas State Normal.....	AS (lr)	Gr.	3	Missoula
Riechel, Olive May, B.A.....	AS Latin	Gr.	1,2,3	Aznoe
Riechel, Wade.....	AS Bot	Sr.	1,2,3	Aznoe
Riefflin, Emil Harold.....	AS	Fr.	1,2,3	Superior
Ries, Bertha Sabina.....	AS Home Ec.	Sr.	1,2,3	Billings
Riley, Adalee.....	AS	Fr.	1,2,3	Missoula
Riley, Flay Katherine.....	SQ		4a	Missoula
Riley, Marvin Connell.....	For	Fr.	2,3	Stowe, Vt.
Riley, Thomas William.....	For	Sp.	2,3	Weymouth, Mass.
Ring, David Allen, Jr.....	Bus Ad	So.	1,2,3	Harlem
Ritchey, Catherine.....	Mus Sp		1,2	Missoula
Ritchey, Mary Moore, B.A., Univ. of Chicago.....	AS Eng	Gr.	2	Missoula
Roach, William James.....	For	Fr.	1,2	Milwaukee, Wis.
Roberts, Charles Alonzo.....	Bus Ad	Jr.	1,2,3	Prosser, Wash.
Robinson, Fannie.....	Uncl (lr)		1,2	Missoula
Robinson, Gladys G.....	Jrl	Jr.	1,2,3	Malta
Robocker, Merrill.....	SQ (lr)		4	Creston
Roche, John James.....	For	Sp.	1,2,3	Hartford, Conn.
Roell, Caroline Helen (Mrs.).....	Mus Sp		1,2,3	Missoula
Rogers, James Marvin.....	For	Sp.	2,3	Coxheath, Ala.
Rogers, Ralph Eugene.....	AS	Fr.	1,2,3	Ronan
Rohrer, Mildred A.....	AS Hist	Jr.	1,2,3	Bozeman
Rooney, Harry Needham.....	AS	So.	1,2,3	Bonner
Rose, Millard A.....	Pharm	Jr.	1,2,3	Bozeman
Ross, Bruce Wallace.....	AS	So.	1,2,3	Missoula
Ross, Carrie Lenore.....	SQ		4a	Nine Mile
Rossiter, Muriel E.....	SQ		4a	Downsville, Wis.
Rossiter, Myrtle Lucille.....	SQ		4a	Downsville, Wis.
Rossman, Mary A.....	AS (lr)	Sp.	1,3	Missoula
Rothenberg, Mrs. Jesse.....	SQ Mus Sp		4a	Missoula
Rottler, Howard Eugene.....	Bus Ad	Fr.	1,2,3	Helena
Rowe, Helen Elizabeth.....	AS	Fr.	4,1,2,3	Missoula
Rowe, Royle Carlton.....	Jrl	Fr.	1,2,3	Terry
Roysdon, Dorrance Scott.....	SQ		4a	Chicago, Ill.
Roysdon, Otis Raymond.....	Bus Ad	So.	1,2,3	Red Lodge
Ruberson, James Harvey.....	For Rgr		2	Missoula
Rudd, Catharine A.....	AS	Fr.	4a,1,2,3	Missoula
Ruiter, Beatrice M., B.A.....	SQ		4a	Red Lodge
Rundlett, Paul Jones.....	Jrl	Sp.	2,3	Minneapolis, Minn.
Rupp, Chris A.....	Uncl (Psych) (lr)		2	Missoula
Russell, Edna Winifred.....	Pharm	Fr.	1,2,3	Red Lodge
Russell, Lelia M.....	Uncl (lr)		1,2	Luther
Rutherford, Franklin K.....	For Rgr		2	Missoula
Rutherford, Margaret R.....	Jrl	So.	1,2,3	Missoula
Rutledge, Bessie M., B.A.....	SQ		4a	Missoula
Rutledge, Neva Martha.....	SQ		4	Missoula
Ryan, Anne Veronica.....	SQ		4a	Missoula
Ryan, Marcella.....	SO		4a	Ismay
Ryan, Martha.....	AS (lr)	Sp.	1,3	Missoula
Ryland, Thomas.....	For	Sp.	3	Missoula
Sager, Harry A.....	AS (lr)	Fr.	1,2,3	Missoula
Sager, Norbert Wm.....	AS Chem	Jr.	2,3	Missoula
Sabine, Lillian Violet.....	Jrl	Fr.	2,3	Missoula
Sandaas, Albert K.....	AS	Fr.	2,3	Butte
Sandelius, John Allen.....	For	Fr.	2,3	Brockway
Sanden, Florence Helena.....	AS	Sp.	1	Livingston
Sanders, Catherine Lois.....	Bus Ad	So.	1,2,3	Helena
Sanders, George.....	Bus Ad	So.	1	Helena
Sanders, John Earl.....	Law	Sp.	1	Pawtucket, R. I.
Sanders, Shields Brewer.....	For	Sr.	1,2,3	Havre
Sandvig, Earl D.....	For	Sp.	1	Sheridan
Saner, Grace, B.A.....	SQ	So.	1,2,3	Seattle, Wash.
			4a	Butte

Name	Curriculum	Rank	Quarters in Attendance	Residence
Sanner, Lucy Beetley	AS	Fr.	1,2,3	Butte
Sappington, Lillian E.	AS	So.	1,2,3	Missoula
Sargent, John R.	AS	Fr.	1,2	Missoula
Sargent, Lester	Uncl (Psych) (lr)		2	Missoula
Sauers, Henry Herman, B.S., Valparaiso Univ.	SQ		4a	Boulder
Saunders, Robert Boon	AS	Fr.	1	Billings
Savaresy, Philip	Law	Sp.	1,2,3	Billings
Sayre, William E., Jr.	For Rgr		2	Roundup
Scally, Harriet Marie	AS	Fr.	1,2,3	Billings
Scally, William Grover	AS	Fr.	1,2,3	Billings
Schacker, Christian H.	Bus Ad	Sp.	2,3	Ryegate
Schaefer, Ida A.	Mus Sp		1	Missoula
Schak, Bernard Alfred	Jrl	Sp.	1,2,3	Bigfork
Scharf, Karl Werling	AS	Fr.	1,2,3	Warm Springs
Schauer, Frederick Roger	AS	So.	1,2,3	Laurel
Scherrer, Amelia Rose	Jrl	So.	1	Helena
Schlepppegrell, Dollie M.	SQ		4	Melstone
Schlick, Marion	AS	So.	1,2,3	Missoula
Schmidt, Ethelyn Zoll	AS	Fr.	2,3	Missoula
Schmidt, Mabel	SQ		4a	Missoula
Schossor, Elsie Anna	SQ		4	Missoula
Schwan, Herbert	For	Fr.	2,3	Milwaukee, Wis.
Schwitzer, Margaret E.	Bus Ad	Fr.	2,3	Victor
Scott, James Joseph	For	Sp.	2,3	Boston, Mass.
Scott, Lillian Corwin	AS	So.	1,2,3	Helena
Sears, Verna Claude	For	Sp.	2	Choteau
Seely, Minnie Estella	Uncl (lr)		1,2	Missoula
Seipp, Harold Gustave	Bus Ad	Fr.	1,2,3	Billings
Sellers, Cora Ione	AS	Fr.	1,2,3	Butte
Senz, Melvin John	SQ		4	Terry
Sestak, Anna Mable	AS	Fr.	1,2	Victor
Shanley, Raymond Francis	SQ		4a	Deer Lodge
Shannon, Patrick	AS	Fr.	1	Long Branch, N. J.
Sharp, Mattie Grace	AS	Fr.	1,2,3	Stevensville
Sharp, Maybelle Earnestine	SQ		4	Perma
Sheedy, Alice Hyrup	AS	So.	1,2	Missoula
Shepard, George R.	Law	Sr.	4,1,2,3	Custer
Shepard, Gladys	Mus	So.	4,1,2,3	Missoula
Shields, Rita Katharine	Jrl	So.	1,2,3	Lewistown
Shigley, Jennie	SQ		4a	Inverness
Shockey, Sara	For	Sp.	1,2,3	Missoula
Shope, Henry Irvin	For	Fr.	2,3	Missoula
Shoup, Mittie Lois	Uncl (lr)		1,2	Missoula
Showell, Eleanor A.	AS	Fr.	4,1,2,3	Missoula
Showell, Lois Clare	Mus	Jr.	1,2,3	Missoula
Showell, Mary Irene	AS Phys Ed	Jr.	4a,1,2,3	Missoula
Shriver, Greta	Mus Sp		3	Missoula
Shull, J. Theodore	For	Jr.	1,2,3	Missoula
Shull, Zona, B.A.	SQ		4b	Missoula
Shultz, Mary Lillian	Bus Ad	Fr.	1,2,3	Hamilton
Shurtleff, Albert Hill	For	Sp.	1,2,3	Plymouth, Mass.
Shutt, D. Vivian	Mus	So.	1	Whitefish
Sigworth, Mary Augusta	AS	Fr.	1,2,3	Geraldine
Simerson, Eugene John	Bus Ad	So.	1,2,3	Missoula
Simpkins, Mabel Marie	AS	So.	4a,1,2,3	Missoula
Sisson, Margaret	Mus Sp		1,2,3	Missoula
Skelton, Mary Isabelle	AS	Fr.	1,2,3	Boulder
Skystead, Ann T.	Bus Ad	Jr.	1,2,3	Havre
Slack, Sidney Albert	SQ		4	Dodson
Slavin, Neita V.	Uncl (lr)		4a,1,2	Missoula
Slaughter, Claud Colvin	For	Sp.	2,3	Augusta
Sloan, Alice Margaret	SQ		4a	Billings
Sloan, Lillian Clair	Bus Ad	Fr.	1,2,3	Boulder
Small, Catherine A.	Jrl	So.	1,2,3	Butte
Smith, Agnes Wallace, B.A.; M. A., Univ. of Ia.	AS (lr)	Gr.	3	Missoula
Smith, Mrs. Charles L.	Uncl (lr)		4,1,2	Missoula
Smith, Chester Raymond	AS	Fr.	3	Roundup
Smith, Christina Marion	AS	Fr.	1,2,3	Creston
Smith, Cressie R. (Mrs.)	AS (lr)	Sp.	1,3	Missoula
Smith, David Robert	Law	Jr.	1,2,3	Helena
Smith, Elsa May	AS Psych	Jr.	1,2,3	Tacoma, Wash.
Smith, Ethol Esther	SQ		4b	Red Lodge
Smith, Helen Catherine	Mus	Fr.	1,2,3	Malta



Name	Cur-riculum	Quarters in Attendance		Residence
		Rank	ance	
Smith, Helen Katherine	AS (lr)	Sp.	1,3	Missoula
Smith, John Samuel	AS	Fr.	1	Missoula
Smith, Lewis Kelsey	Bus Ad	Sr.	1,2,3	Helena
Smith, Marie Agnes	SQ		4	Boulder
Smith, Paul Wynne	Law	Sr.	1,2,3	Helena
Smith, Ruth Marie	AS	So.	4a,1,2,3	Missoula
Smith, Sherman Woodruff	AS	Fr.	1	Helena
Smith, Winifred Margaret	AS Eng	Sr.	4a,1,2,3	Great Falls
Smithers, C. Owen	Jrl	So.	1,2,3	Kalispell
Smithers, Vera Amelia	Uncl		2	Kalispell
Snyder, Louise H.	AS	Fr.	1,2,3	Stockett
Southwick, John Jay	Law	Sr.	4,1,2,3	Hamilton
Spain, Clarkson	Bus Ad	Fr.	1	Belgrade
Sparrow, Cora	AS Phys Ed	Sr.	4,1,2,3	Anaconda
Spaulding, Mrs. Thos. C.	AS Biol (lr)	Sr.	1,2,3	Missoula
Speer, Lillian Isabelle	SQ		4a	Missoula
Speer, Lucile E.	Mus Sp		4,2,3	Missoula
Spelman, James Rewalt	Uncl		3	Anaconda
Spelman, Maribel	Jrl	So.	1,2,3	Anaconda
Spencer, Percy Sylvester	For	So.	1,2,3	New Richmond, Wis.
Spencer, Ray W.	Bus Ad	Sr.	1,3	Dillon
Spiller, Charles R.	Bus Ad	Sr.	1,2,3	Belt
Spogen, Leo Raymond	AS Chem	Sr.	1,2,3	Belt
Sponheim, Louisa Annetta	AS Eng	Jr.	4a,1,2,3	Basin
Sprake, Tyler W.	AS	So.	1,2	Casselton, N. D.
Spurling, Ada Elizabeth	SQ		4b	Geraldine
Stafford, Agnes	SQ		4a	Butte
Staggs, Prentiss Fuller	Bus Ad	Fr.	1,2,3	Broadview
Stallings, Hugh A.	For	Sp.	1,2,3	Missoula
Stanley, Robert D.	AS	Fr.	1	Corvallis
Stanton, Asa Donald	Bus Ad	Sp.	1	Helena
Stark, Irma	Mus	So.	1,2,3	Livingston
Stark, Russell F.	AS	Fr.	1,2,3	Livingston
Stephenson, Ruth Irene	Mus Sp		1,2,3	Stevensville
Sterling, John Worden	AS Econ	Sr.	1,2,3	Missoula
Stevens, Donald	Jrl	So.	1,2,3	Pony
Stevens, Jessie	SQ		4a	Sumatra
Steward, Albert N.	AS Bot	Sr.	2,3	Missoula
Stewart, Helen Elizabeth	AS Home Ec.	Sr.	4a,1,2,3	Billings
Stewart, Leo William	Law	Sr.	1,2,3	Basin
Sticht, Ralph Emmett	AS	Fr.	1	Missoula
Stickney, Kathryn M., B.A., Univ. of Mich.	SQ (lr)		4a	Missoula
Stimpert, Fred D.	AS Biol	Sr.	1,2,3	Great Falls
Stolpinsky, Jacob L.	AS	Fr.	1,2,3	Butte
Stone, Jack Buckley	Jrl	So.	1,2,3	Missoula
Storey, Eloise Eugenia	AS	So.	1,2,3	Harlem
Stowe, Ben F.	AS	So.	1,2,3	Missoula
Stowe, Ralph George	Jrl	Fr.	1,2	Missoula
Strang, Evelyn Rafferty	SQ		4b	Missoula
Straw, Alva E.	Bus Ad	So.	1,2,3	Forsyth
Streit, Helen E.	AS	So.	1,2,3	Missoula
Striker, William Chelcie	Jrl	Sp.	1,2,3	Kelvin, N. D.
Stromnes, Ingolf John	Bus Ad	Sp.	1,2,3	Grass Range
Strong, William Elmore	AS Econ	Jr.	2	Jordan
Sulem, John William	For	Sp.	2,3	Minneapolis, Minn.
Sullivan, Josephine	Uncl (lr)		4a,1,2	Missoula
Sullivan, Stephen Patrick	Bus Ad	Jr.	1,2,3	Butte
Sullivan, William Victor	Jrl	Sp.	1,2,3	Butte
Swanberg, Hugh Hjalmar	AS (lr)	Sp.	1	Missoula
Swanson, Ruth Genevieve	Jrl	Fr.	1,2,3	Glendive
Swartz, Ione Mary	AS	Fr.	1,2,3	Missoula
Swearingen, Thomas G., B.A.	AS Biol	Gr.	2,3	Great Falls
Swift, Ella E.	SQ		4a	Butte
Sylvester, Ida Marie	Pharm	Sr.	1,2,3	Anaconda
Symons, Helene Adrienne	AS	Fr.	1,2,3	Butte
Taber, Lillian F.	SQ		4a	Lavina
Taft, Harriet Elizabeth	SQ		4a	Melstone
Tanner, Gordon Lewis	Bus Ad	Fr.	1,2,3	Miles City
Taylor, Dorothy (Mrs.)	SQ		4	Forsyth
Taylor, Edwin P.	Bus Ad	So.	1,2,3	Missoula
Taylor, Harriet Mary	AS	So.	1,2,3	Missoula
Taylor, J. W.	For	Sp.	2,3	Ephraim, Utah
Taylor, Margaret S.	AS Eng	Sr.	4,1,2,3	Missoula
Taylor, Roscoe R.	SQ		4	Forsyth

REGISTER OF STUDENTS

Name	Curriculum	Rank	Quarters in Attendance	Residence
Teats, Burt	AS	Fr.	1,2,3	Miles City
Tellin, Alden R.	Bus Ad	Fr.	1	Dillon
Terrill, Irene D.	Pharm	Fr.	1	Wibaux
Terrill, Frank	AS	So.	1,2,3	Great Falls
Theis, Frances, B.A.	SQ		4a	Missoula
Theis, Katherine	AS	Sp.	1,2	Missoula
Theis, Richard Arnold	Bus Ad	Sp.	1	Missoula
Thetge, Doris	AS	Math	Sr. 1,2,3	Helena
Thibaudeau, Marguerite A.	AS	So.	1,2,3	Chinook
Thisted, Helen H.	Bus Ad	Fr.	1	Great Falls
Thisted, Violet Mabel	Bus Ad	So.	1,2,3	Great Falls
Thomas, Byron F.	For	So.	1,2,3	Beatrice, Neb.
Thomas, Charles E.	Bus Ad	Fr.	1,2,3	Dillon
Thomas, Myles John	AS	Fr.	1	Anaconda
Thomas, William Webb	AS	So.	1,2	Eureka
Thompson, Bernice V.	AS	Fr.	1,2,3	Missoula
Thompson, Charles W., B.A.				
Cornell College, Ia.	SQ		4	Red Lodge
Thompson, Elsie Addie	AS	Sr.	1,2,3	Winston
Thompson, Iva Dorothy	AS	Fr.	1,2,3	Hardin
Thompson, Lenore B.	AS	Fr.	1,2	Twin Bridges
Thompson, Lloyd S.	Jrl	So.	1,2,3	Missoula
Thompson, Lois Elizabeth	AS	Hist	Sr. 4,1,2,3	Red Lodge
Thompson, Merle M.	Pharm	Sr.	1,2,3	Red Lodge
Thompson, Miriam W.	AS	Fr.	1,2,3	Billings
Thomson, Peter A.	Bus Ad	So.	2,3	Billings
Thorn, Ruth Margaret	Bus Ad	Fr.	1,2,3	Alberton
Thornton, Matilda H.	Uncl (Ir)		1	Missoula
Thorpe, Wano Elmer	AS	Sp.	1,2,3	Gardner, Mass.
Thovsen, Albert T.	For	Sp.	1,2	Glenham, S. D.
Thranum, Ruth A.	AS	So.	1,2,3	Square Butte
Thrasher, Minnie L.	Uncl (Ir)		2,3	Missoula
Thurston, Kathleen H.	AS	Fr.	1,2	Roundup
Tiedt, Inez Josephine	AS	Home Ec	Sr. 1,2,3	Missoula
Tillman, Morgana	SQ		4	Florence
Tillman, Regis LeRoy	Jrl	So.	1,2,3	Florence
Tintingir, Lincoln M.	Bus Ad	Fr.	1,2	Cascade
Tooley, Josephine	SQ		4b	Lee
Toole, Brice	Law	Sr.	1,2,3	Missoula
Torrance, Salome	AS	Fr.	1,2,3	Butte
Toulouse, Albert L.	Bus Ad	Jr.	1,2	Roundup
Trafford, Ruth Anna	AS	So.	4,1,2,3	Missoula
Tressel, Kathryn Kennedy	AS	Fr.	1,2,3	Geraldine
Trotter, Beulah May	AS	Fr.	1,2,3	Trotter, N. D.
Trowbridge, Jessie	SQ		4	Bonita
Tschudy, Arnold Nord	Jrl	So.	1	Billings
Tuggle, Jenny Elizabeth	AS	Fr.	1,2,3	Fromberg
Tuggle, Mable Lucille	Bus Ad	Fr.	1,2,3	Fromberg
Turck, Madeline	AS	Hist	Jr. 4,1,2,3	Moore
Tuson, Richard S.	AS	Sp.	3	Missoula
Tyndal, Mary Winnifred	Mus	Sp.	1,2,3	Missoula
Uehlinger, Mildred A.	Mus	So.	1,2,3	Kalispell
Uhlhorn, Carl Fred	For	Rgr	2	Chicago, Ill.
Ulrig, Vernie Maurice	Bus Ad	Fr.	4,1,2,3	Missoula
Underwood, Richard S.	AS	So.	1,2,3	Abasrooke
Urey, Harold C., B.S.	AS	Gr.	2,3	Seattle, Wash.
Valderrama, Felipe	For	Jr.	1,2,3	Balincaguin, P. I.
Vaughan, Hazel Georgia	AS	Fr.	1,2,3	Billings
Vedder, Mary Harriette	AS	Eng	Jr. 1,2,3	Crow Agency
Velikanjie, Amanda	AS	Fr.	1,2,3	Great Falls
Vestal, May B.	SQ		4a	Ingomar
*Vitt, Herbert Otis	AS	Econ	Sr. 2	Butte
Wadsworth, Ralph L.	AS	Fr.	1,2	Chicago, Ill.
Wagner, Elizabeth A.	SQ		4	Clyde Park
Wagner, Irma Lucile	AS	Phys Ed	Jr. 1,2,3	Missoula
Wagy, Mildred	AS	So.	1,2,3	Hamilton
Waldow, Ernest C.	For	Sp.	1,2,3	Culbertson
Walker, Bert	Bus Ad	So.	1,2,3	Lewistown
Walker, Edwin Hoffman	AS	Sp.	1,2	Spokane, Wash.
Walker, Phoebe Howell	AS	Biol	Jr. 4a,1,2,3	Missoula
Wallace, William H.	AS	Fr.	1,2,3	Missoula
Walsh, Walter L.	SQ		4	Butte
Walters, Raymond	Jrl	Sp.	1,2,3	Woonsocket, S. D.
Walterskirchen, William	AS	Math	Sr. 4,1,2,3	Missoula
Wampler, Esther E.	SQ		4	Saco

Name	Cur-riculum	Rank	Quarters in Attendance	Residence
Wampler, Richard Lee	SQ		4	Saco
Ward, Fred J.	SQ		4	Westmont
Ware, Ellen Elizabeth	SQ		4	Park City
Warner, Neil Gardner	For	Sr.	1,2,3	Clear Lake, S. D.
Warr, Caroline Mary	AS		Fr. 1,2,3	Lewistown
Watson, Chester Otis	Bus Ad		Fr. 1,2,3	Aitkin, Minn.
Watson, Earle D.	AS		Fr. 2,3	Square Butte
Watson, Harry Evert	Law		Jr. 1,2,3	Square Butte
Watters, Hazel St. Claire	Bus Ad		Fr. 1,2,3	Missoula
Watters, Miriam	SQ		4a	Victor
Weaver, Mrs. Tom E.	AS (lr)		Sp. 1	Missoula
Weaver, Virginia H., B.A.; M.A., Washington State College	AS (lr)		Gr. 1	Missoula
Webster, Anna I.	AS		Fr. 1,2,3	Missoula
Welch, Genevieve L.	SQ		4	Missoula
Wellman, Carl L.	Pharm		So. 1,2,3	Jordan
Wells, Carl Fred	For		Sp. 1,2	Hector, Minn.
Wells, Caroline, B.A., University of Wisconsin	Psych (lr)		Gr. 2	Missoula
Westby, Levard Edwind	Bus Ad		So. 1,2,3	Terry
Whalen, Naomi I.	Mus		Fr. 1	Kalispell
Wheat, Earl	For		Sp. 3	Mill Iron
Wheeler, Russell B.	For		Fr. 2,3	Gassaway, W. Va.
Whisler, Harold, B.S.	For		Gr. 2	Missoula
Whitcomb, Emeline S., B.S.; M.A., Columbia University	AS (lr)		Gr. 1	Chicago, Ill.
Whitacre, James E.	Bus Ad		Fr. 2,3	Choteau
White, Hayden	Bus Ad		Fr. 1,2,3	Billings
White, M. Winifred	AS (lr)		Sp. 3	Dixon
White, Omar W.	AS Math		Jr. 1,2,3	Victor
White, Philip R.	AS Bot		Jr. 1,2,3	Missoula
Whitley, Elsie A. (Mrs.)	AS		Sp. 1,2,3	Missoula
Whitney, Ralph H.	For		Sp. 1	Sicux Falls, S. D.
Wicks, Elizabeth W.	AS Home Ec.		Jr. 4a,1,2,3	Missoula
Wickes, Margaret S.	AS Eng		Sr. 4a,1,2,3	Missoula
Wickes, Thomas A.	AS		Fr. 1,2,3	Missoula
Wiedeman, George J., Jr.	Bus Ad		So. 4,1,2,3	Lewistown
Wildner, Ruth A.	AS		Fr. 1	Kalispell
Wiles, Thomas M.	For Rgr		2	Columbia Falls
Wilkinson, Irma	SQ		4b	LaValle, Wis.
Wilkinson, Marjorie C.	Bus Ad		Fr. 1,2,3	Missoula
Williams, Bernard R.	Bus Ad		Fr. 2,3	Dillon
Williams, Lyle K.	Jrl		Fr. 1,2	Willow Creek
Williams, Ross A.	For		Sr. 1,2,3	Manhattan, Kan.
Williamson, Francis E.	For		Sp. 1,2,3	Cincinnati, O.
Willis, Harold M.	Bus Ad		Fr. 1,2	Bozeman
Wilson, Ann B.	Jrl		Jr. 1,2,3	Havre
Wilson, Cella	Mus		Fr. 1,2,3	Pray
Wilson, Forrest Oliver	Bus Ad		Fr. 1,2,3	Conrad
Wilson, Harriet Ida	Bus Ad		So. 1,2,3	Great Falls
Wilson, Lillian D.	Jrl		Fr. 1,2,3	Boulder
Wilson, Mahala Margaret	For		Sp. 2,3	Castle Buttes
Wilson, Mary Frances	Bus Ad		Fr. 1,2	Helena
Wilson, Neil S.	AS		So. 1,2,3	Butte
Wilson, Nellie W.	SQ		4a	Roundup
Wilson, Virgil E.	Law		Jr. 1,2,3	Billings
Wilson, Walter Gordon	Law		Sr. 1,2	Boulder
Wilson, William	AS Math		Jr. 1,2,3	Sand Coulee
Wimsett, Caecilia O.	SQ		4	Moiese
Winans, Ruth B.	AS		So. 1,3	Livingston
Wininghoff, Florence L.	SQ		4a	Phillipsburg
Winsor, Ivan F.	AS Math		Sr. 1,2,3	Miles City
Witcomb, George W.	Bus Ad		Fr. 1,2,3	Missoula
Witter, George G., B.A., Syracuse Univ.	Law		Gr. 1,2,3	Wellsville, N. Y.
Woehner, Albert E.	Pharm		Sr. 1,2	Missoula
Wolff, Mrs. Merle E.	SQ (lr)		4a	Spokane, Wash.
Wood, Ethel J.	SQ		4	Lee
Wood, Helen Hackney	Mus		Fr. 1,2,3	Harlowton
Woods, William S.	SQ		4a	Baker
Woodruff, Stanley D.	AS		So. 2,3	Missoula
Woolverton, Lona Wynema	Jrl		So. 1,2,3	Livingston
Worden, Donovan	Law		Sr. 4a,1,2,3	Missoula
Worden, Mae Pope, B.A.	AS (lr)		Gr. 3	Missoula

Name	Curriculum	Rank	Quarters in Attendance	Residence
Wrabeck, Arthur James	Pharm	Sp.	3	Missoula
Wrigley, Clara S. (Mrs.)	SQ		4	Missoula
Wryn, Walter E.	For	Sp.	1,2,3	Utica
Wymond, Hawley	Law	Sp.	1	Great Falls
Yegen, Mildred	Mus Sp		2	Billings
Yegen, Virginia	Bus Ad	Sr.	1,2	Billings
Yochelson, Albert	For Rgr		2	McKeesport, Pa.
Young, Clifford M.	AS	Fr.	1,2,3	Helmville
Zamansky, Allan	For	Fr.	1,2,3	Washington, D. C.
Zeh, Frank F.	For Rgr		2	Elkhart Lake, Wis.
Zeh, William H.	For	Sr.	1,2,3	Elkhart Lake, Wis.
Zigan, Elizabeth C.	AS (1r)	Sp.	1,3	Missoula
Zimdars, August A.	For	Sp.	1,2	Bloomfield
Zook, Sermann Joseph	Bus Ad	Fr.	1	Baker

## STUDENTS ENROLLED IN CORRESPONDENCE STUDY COURSES

April 14, 1920-April 14, 1921

Albertson, Genevieve .....	Hardin
Anderson, Alma C. ....	Helena
Anderson, Josephine .....	Beaverton
Anderson, Muriel .....	Scobey
Anglemeier, Earl Llewellyn.....	Drummond
Baker, Alfred Henry .....	Libby
Baldwin, Grace .....	Twete
Ballard, Sidney .....	Malta
Barnett, Grace Treleven .....	Missoula
Belknap, Edna Mae .....	Polson
Berno, Beatrice .....	Midwest, Wyo.
Bierman, Jessie Marguerite .....	Kalispell
Blackstone, Jessie Edna .....	Anaconda
Blain, Edith M. ....	Geyser
Broadwater, Kathlyn .....	Havre
Bromley, Burt M. ....	Red Lodge
Brosnan, Sister Margaret Mary.....	Great Falls
Brown, Mildred .....	Great Falls
Bruner, Temple Alfred .....	White Sulphur Springs
Bryson, Dorothy .....	Luther
Bull, Mary F. ....	Virginia City
Bungag, Jacinto .....	Trident
Burbridge, Edith Amy .....	Benchland
Burfening, Beryl .....	Bynum
Burgett, Earl .....	Choteau
Byrne, Katharine I. ....	Butte
Calvert, Webster D. ....	Miles City
Castleman, Nellie A. (Mrs.) .....	Antonio, Tex.
Christensen, Milford Dan .....	Subburst
Clark, Frances N. ....	Plains
Cody, Mary E. ....	Butte
Cron, Marion B. (Mrs.) .....	Missoula
Crouch, Georgia R. (Mrs.).....	Montpelier, Ida.
Davis, Lucretia .....	Helena
Deeney, Rose J. ....	Butte
Distad, Hjalmar William .....	Salesville
Dittner, Clarence .....	Hazny
Drapeau, Frank M. ....	Priest River, Ida.
Dunne, Sister Annunciata .....	Great Falls
Dunnigan, William .....	Anaconda
Dunster, Corlie F. ....	Ryegate
Eldering, Grace .....	Rancher
Emerson, Frances M. B. ....	Butte
Erickson, Etta Louise.....	Vermillion, S. D.

Ericson, Eston Everett .....	Rapelje
Ericsson, Ida .....	Rollins
Ernst, Oliver Harland, Jr. ....	Billings
Farrell, Joanne Elizabeth .....	Butte
Farrell, Margaret .....	Butte
Farrell, Mary Montana .....	Butte
Fitch, Arthur L. ....	Round Butte
Fitch, Ben R. ....	Terry
Flynn, Sister May Claudia .....	Walla Walla, Wash.
Fontaine, Flora (Mrs.) .....	Melville
Ford, Albert R. ....	Eureka
Fouts, Sister Anne Marie .....	Great Falls
Frisby, Helen .....	Stevensville
Gerber, Raymond A. ....	Great Falls
Gerber, Vera M. ....	Carter
Gleason, Hildred .....	Florence
Grant, Mae .....	Kalispell
Gray, May Helen .....	Stanford
Gregerson, Madge .....	Plevna
Hammond, L. Lucille .....	Butte
Hartley, Leslie E. ....	Belfry
Heerwald, Paul S. ....	Shepherd
Hoem, Inga A. ....	Missoula
Huffman, Lawrence L. ....	Tyner, Ind.
Humble, Best C. ....	Lonepine
Hurni, Sister Othelia .....	Butte
Hurzeler, Gladys Lillian .....	Butte
Hutchings, John C. ....	Livingston
James, Hershel .....	Absarokee
Jameson, Lucille .....	Missoula
Johnson, Clara .....	Victor
Johnson, Dale .....	Evaro
Johnson, Karen Belle .....	Saco
Johnson, Lillian E. ....	Deer Lodge
Jones, Edith E. ....	Bole
Kelly, Mrs. A. H. ....	Fort Benton
Kennedy, Ruth M. ....	Butte
Kerlaouezo, Armand V. ....	Southern Cross
King, Ollie May .....	Geraldine
Kleinoeder, Ruth .....	Hamilton
Knox, Marcia .....	Plevna
Kreiner, Sister Mary Fenbarr.....	Great Falls
Krone, Jessie M. ....	Columbia Falls
Laird, Cassie .....	Butte
Larson, Olga Irene .....	Frenchtown
Lincoln, Elise .....	Great Falls
Ling, Luella .....	Billings

Lowery, Anna Edith .....	Garnet
McAuliffe, Virginia .....	Butte
McBride, Rose .....	Lima
McCall, Linda Werner .....	Whitehall
McCrossen, Catherine .....	Walla Walla, Wash.
McGilvry, Eleanor A. (Mrs.) .....	Missoula
McIntosh, Mautie H. ....	Ryegate
McKain, Neil Dunn .....	Missoula
McKennedy, Lulu .....	Eagle Butte
McManis, Sarah .....	Butte
McNinch, Opal .....	Great Falls
Madison, Fred H. ....	Willow Creek
Malin, Reba .....	Hamilton
Maris, Angeline .....	Butte
Mattke, Bernice L. ....	Williams
Mead, Charles H. ....	Thompson Falls
Mennell, Estella P. ....	Wickes
Metlen, Genevieve .....	Armstead
Moore, Clarence Eugene .....	Boulder
Morris, Elmer Franklin .....	Drummond
Moser, Wilbur Earl .....	Geyser
Motz, Ruth M. ....	Helena
Murphy, Mary A. ....	Butte
Nalbach, Irena Langheld .....	Great Falls
Nedry, Anna .....	Missoula
O'Brien, Mary K. ....	Great Falls
O'Donnell, Irene .....	Billings
Oldham, Viola Grace .....	Inga
Owen, Ruth A. ....	Carter
Paquett, Aurora .....	Iron Mountain
Parker, Anna O. ....	Lonepine
Parker, Victor A. ....	Lonepine
Paulson, Mary .....	Great Falls
Phelps, Dorothy Jayne .....	Missoula
Platt, Lina .....	Butte
Poole, Anna .....	Butte
Price, Earle Edison .....	Eureka
Rennie, Myrtle M. M. ....	Mullan, Ida.
Sauer, Caroline .....	Regina
Senz, Melvin John .....	Terry
Shea, Julia .....	Butte
Sheeder, Ruth .....	Kalispell
Sheldon, Mary Helen .....	Great Falls
Shepard, Gladys .....	Potomac
Shull, Zona .....	Missoula
Skylstead, Ann T. ....	Havre
Smith, Charles .....	Custer

Smith, Sister Mary Donata .....	Billings
Serteberg, Jennie D. (Mrs.) .....	Savage
Stark, Irma .....	Livingston
Stimson, William C. ....	Helena
Strang, Evelyn Rafferty .....	Missoula
Strong, William Elmore .....	Pony
Thetge, Doris .....	Helena
Thomas, William Webb .....	Eureka
Thompson, Bula M. ....	Terry
Van Cleve, Gretchen .....	Fromberg
Wagner, Elizabeth A. ....	Clyde Park
Walker, Bert J. ....	Lewistown
Waller, Fred L. ....	Alberton
Wampler, Esther E. ....	Saco
Wampler, Richard Lee .....	Saco
Ward, Fred J. ....	Westmore
Ward, Mrs. J. W. ....	Kalma
Warner, Anna A. ....	Poplar
Weide, Ella .....	Twin Bridges
White, Millard C. ....	Wagon Wheel Gap, Colo.
Williams, Lyle K. ....	Willow Creek
Wilson, Louise J. (Mrs.) .....	Missoula

In addition to resident and correspondence study students listed above there were 38 extension students in History and 45 extension students in Physical Education.

## DEGREES AND CERTIFICATES GRANTED

1920-21

\*Granted August, 1920.

\*\*Granted December, 1920.

\*\*\*Granted April, 1921.

All others granted June, 1920.

### Degree of Bachelor of Arts

Name	Major Subject
*Anderson, Alma C. ....	Fine Arts
*Baptist, Charles F. D. ....	Fine Arts
Beckwith, Lawton B. ....	Chemistry
Black, Leah Dunlap .....	Home Economics
*Bramble, Kittie A. ....	English
Burt, Elva .....	History
Campbell, Hugh, Jr. ....	Economics
Dana, Ruth Galphry .....	Home Economics
***DeRyke, Leroy .....	Modern Languages
Dixon, Florence Worden.....	Biology



*Donlan, Edward, Jr. ....	Economics
**Erickson, Sadie .....	Journalism
Farrell, Mary N. ....	Journalism
Faust, Florence .....	Fine Arts
Gault, John McPherson .....	Law
*Gex, Phyllis .....	History
Gleason, Hildred Frances .....	Modern Languages
Gunning, Nellie Ellen .....	History
Hadeen, Erik August .....	Economics
Hamilton, Ruth .....	English
*Hansen, Estelle Marie .....	Mathematics
*Hebert, Marian .....	Physics
Helvik, Lottie Jonetta .....	Modern Languages
*Howe, Elmer B. ....	Business Administration
*Hurzeler, Gladys Lillian .....	Home Economics
*Ireland, Elisabeth .....	History
Johnson, Clara Agnes .....	English
Kane, William George .....	Geology
**Kelly, Madeleine Aloise .....	Physical Education
Kleinoder, Ruth Marguerite .....	History
***Knutson, Mable S. ....	English
Lamb, John Henry .....	Business Administration
Leach, Marion Adelia .....	Home Economics
***Linderman, Wilda Jane .....	English
Lukens, Mary Josephine .....	Home Economics
McAuliffe, Virginia .....	Physical Education
McDonnell, Ann Elizabeth .....	Latin
*McGlaughlin, Therma Lenore .....	Mathematics
McLaughlin, Flora Gillies .....	Home Economics
Maclay, Carrie Virginia .....	Economics
**Madison, Fred Harold .....	Education
*Mills, Kathryn Mary .....	English
Mollet, Charles E. F. ....	Botany
***Mooney, Guy Hastings .....	Journalism
*Murray, Francis J. ....	English
Nohl, Anna May .....	Business Administration
Oslund, Robert .....	Biology
Parsons, Homer M. ....	English
Patterson, John Franklin .....	Business Administration
Paxson, Lelia Everetta .....	Modern Languages
Peek, Tate W. ....	English
Peters, George Fritz .....	Psychology
Powell, E. Dorothy .....	Home Economics
Reely, Ann .....	English
*Rees, John Alva .....	Law
**Reinhard, Ethel Orvis .....	Modern Languages
***Riechel, Mrs. Olive M. ....	Latin

Ruiter, Beatrice M. ....	Mathematics
Ruppel, Henry George .....	Chemistry
Schwefel, Alice C. ....	Biology
**Stimson, Claude William .....	Economics
**Strang, Evelyn Rafferty .....	English
Swearingen, Thomas G. ....	Mathematics
Turner, Margaret Barbour .....	Economics
Westby, Cleve Oscar .....	Business Administration
Whitesitt, Hazel M. ....	History
Woody, Lillian H. ....	English

#### **Degree of Bachelor of Science in Forestry**

Butler, Everett F.  
 Dacanay, Placido  
 \*\*\*Dirmeyer, Earl Paul  
 \*\*\*Franco, Felix  
 Ireland, Russell  
 Whisler, Harold

#### **Degree of Bachelor of Laws**

Fredericks, Helen G.  
 \*Gwin, Ira Arlington  
 McHaffie, Stuart Maxwell

#### **Degree of Pharmaceutical Chemist**

\*\*\*Thompson, Merle M.

#### **Degree of Master of Science in Forestry**

Kohner, William Graves

#### **Certificate of Completion of Course in Law**

Baldwin, Charles Spangler  
 \*Bourquin, John Justin  
 \*\*\*Wymond, Hawley

#### **Degree of Graduate in Pharmacy**

Clark, Frances Naomi  
 Folkestad, Charles Walter  
 Luttrell, Dorothy Alberta  
 Malone, Earl Webster  
 Thompson, Merle M.  
 Woehner, Albert Edward

#### **Certificate of Supervisor of Music**

\*Galvin, Geraldine

**\*SUMMARY OF REGISTRATION, 1920-21**

COLLEGE, SCHOOL OR COURSE	Graduates		Seniors		Juniors		Sophomores		Freshmen		Specials		Totals												
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women											
Arts and Sciences.....	5	21	26	15	42	57	17	43	60	47	82	129	199	17	45	62	178	355	533						
Business Administration....	1	....	1	14	2	16	9	5	14	32	13	45	38	93	21	1	22	132	59	191					
Forestry .....	2	1	3	9	....	....	9	11	....	11	16	16	20	....	20	92	2	94	150	3	153				
Journalism .....	....	1	1	2	4	6	5	3	8	16	16	32	13	14	27	11	....	11	47	38	85				
Law .....	5	1	6	13	....	13	9	1	10	7	....	7	7	....	7	6	....	6	47	2	49				
Music (Bachelor of Music Course) .....	....	1	1	....	....	....	1	1	2	....	7	7	13	13	2	....	2	3	22	25	....	....			
Pharmacy .....	....	....	....	2	....	2	4	3	7	5	1	6	8	5	13	2	....	2	21	9	30	....	....		
Total .....	13	25	38	55	48	103	56	56	112	123	119	242	180	192	372	151	48	199	578	488	1066	....	....		
Music Specials .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
Unclassified (Psychology).....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Unclassified .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Forest Rangers .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Summer Quarter, 1920.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Less Duplicates .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total Enrollment of Resident Students, 1920-21.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Correspondence Study Students.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Less Duplicates .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Net Total for Year 1920-21 (to June 1, 1921).....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

\*38 extension students in History and 45 in Physical Education not included in this summary.

# Summary by Counties and States 1920-1921

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Beaverhead .....	11
Big Horn .....	7
Blaine .....	10
Broadwater .....	9
Carbon .....	22
Carter .....	3
Cascade .....	58
Choteau .....	13
Custer .....	20
Dawson .....	12
Daniels .....	2
Deer Lodge .....	29
Fallon .....	15
Fergus .....	26
Flathead .....	40
Gallatin .....	23
Garfield .....	5
Golden Valley .....	6
Granite .....	8
Hill .....	10
Jefferson .....	18
Judith Basin .....	1
Lewis & Clark .....	41
Liberty .....	1
Lincoln .....	8
McCone .....	2
Madison .....	14
Meagher .....	8
Mineral .....	6
Missoula .....	415
Musselshell .....	16
Park .....	17
Phillips .....	10
Pondera .....	11
Powder River .....	3
Powell .....	15
Prairie .....	6
Ravalli .....	53
Richland .....	3

Roosevelt .....	5
Rosebud .....	16
Sanders .....	12
Sheridan .....	7
Silverbow .....	109
Stillwater .....	10
Sweetgrass .....	4
Teton .....	7
Toole .....	7
Treasure .....	1
Valley .....	5
Wheatland .....	4
Wibaux .....	2
Yellowstone .....	61
Other states .....	205
Other countries .....	10
Total .....	<hr/> 1442

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*[Faint, illegible cursive handwriting covering most of the page]*

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