

1-1-1918

1918-1919 Course Catalog

University of Montana--Missoula. Office of the Registrar

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175

UNIVERSITY OF MONTANA BULLETIN

STATE UNIVERSITY SERIES

NO. 219

STATE UNIVERSITY

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

TWENTY-FOURTH ANNUAL CATALOGUE

1918-1919

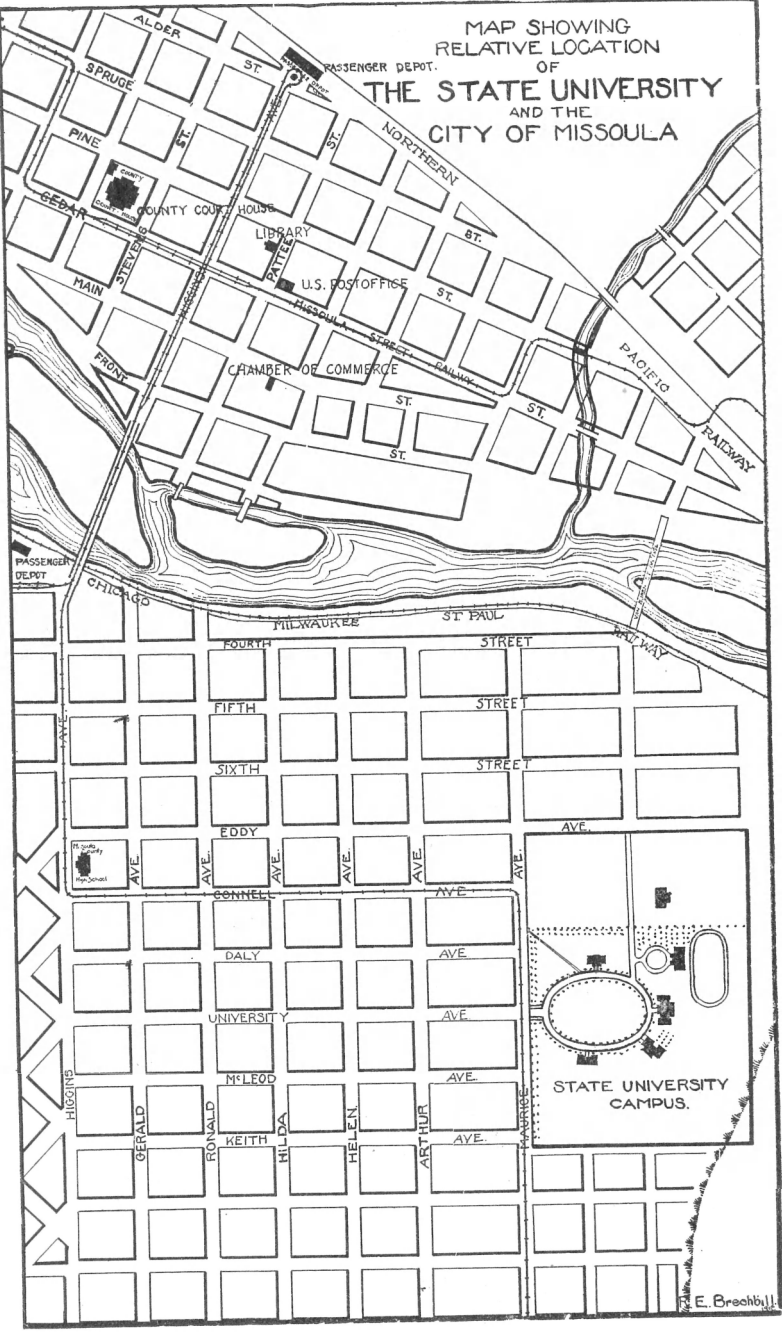
42746

ANNOUNCEMENTS FOR
1919-1920

MISSOULA, MONTANA
MARCH, 1919

Entered at Missoula, Montana, as second-class matter under Act of
Congress, August 24, 1912

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



F. Brechtel

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

University Calendar 1919-1920

1919

Spring Quarter

Mar. 29, Saturday.....	Registration of New Students
Mar. 31, Monday.....	Instruction begins
May 14-17, Wednesday-Saturday.....	Interscholastic Meet
May 30, Friday.....	Memorial Day, holiday
June 15, Sunday.....	Baccalaureate Address
June 16, Monday.....	Annual Recital of the School of Music
June 17, Tuesday, 10:30 a. m.....	Class Day Exercises
June 17, Tuesday, 7:00 p. m.....	Annual Alumni Dinner
June 18, Wednesday, 10:30 a. m.....	Commencement
June 18-21, Wednesday-Saturday.....	Examinations

Summer Quarter

June 23, Monday.....	First Term begins
July 4, Friday.....	Independence Day, holiday
Aug. 1, Friday.....	First Term ends
Aug. 4, Monday.....	Second Term begins
Sept. 5, Friday.....	Second Term ends

Autumn Quarter

Sept. 26, 27, Friday, Saturday.....	Registration Days
Sept. 29, Monday.....	Instruction begins
Oct. 12, Sunday.....	Columbus Day
Nov. 27, Thursday.....	Thanksgiving Day, holiday
Dec. 16-19, Tuesday-Friday.....	Examinations
Dec. 19, Friday, 4:30 p. m.....	Quarter ends, Christmas Recess begins

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Winter Quarter

Jan. 3, Saturday.....	Registration of New Students
Jan. 5, Monday.....	Christmas Recess ends, Instruction begins
Feb. 12, Thursday.....	Lincoln's Birthday, Special Convocation
Feb. 17, Tuesday.....	Charter Day, Special Convocation
Feb. 22, Sunday.....	Washington's Birthday
Mar. 24-27, Wednesday-Saturday.....	Examinations

Spring Quarter

Mar. 27, Saturday.....	Registration Day
Mar. 29, Monday.....	Instruction begins
May 12-15, Wednesday-Saturday.....	Interscholastic Meet
May 30, Sunday.....	Memorial Day
June 13, Sunday.....	Baccalaureate Address
June 14, Monday.....	Annual Recital of the School of Music
June 15, Tuesday, 10:30 a. m.....	Class Day Exercises
June 15, Tuesday, 7:00 p. m.....	Annual Alumni Dinner
June 16, Wednesday, 10:30 a. m.....	Commencement
June 16-19, Wednesday-Saturday.....	Examinations

Summer Quarter

June 21, Monday.....	First Term begins
July 4, Sunday.....	Independence Day
July 30, Friday.....	First Term ends
Aug. 2, Monday.....	Second Term begins
Sept. 3, Friday.....	Second Term ends

Autumn Quarter

Sept. 28, 29, Tuesday, Wednesday.....	Registration Days
Sept. 30, Thursday.....	Instruction begins
Oct. 12, Tuesday.....	Columbus Day, Special Convocation
Nov. 25, Thursday.....	Thanksgiving Day, holiday
Dec. 20-22, Monday-Wednesday.....	Examinations
Dec. 22, Wednesday, 4:30 p. m.....	Quarter ends, Christmas Recess begins

Official Directory

EXECUTIVE BOARD

EDWARD O. SISSON (ex-officio), Chairman.....	Missoula
J. H. T. RYMAN (term expires 1921), Treasurer.....	Missoula
J. M. KEITH (term expires 1919).....	Missoula
H. J. GREENE, 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
MRS. K. W. JAMESON, Ph.D.....	Dean of Women
A. L. STONE, B.S.....	University Editor and Dean of the School of Journalism
*DORR SKEELS, B.S.....	Dean of the School of Forestry
JAMES H. BONNER, B.S.....	Acting Dean of the School of Forestry
ALBERT N. WHITLOCK, A.M., LL.B.....	Dean of the School of Law
DELOSS SMITH.....	Dean of the School of Music
C. E. MOLLET, Ph.C.....	Dean of the School of Pharmacy
JAMES B. SPEER, B.A., LL.B.....	Registrar and Secretary of the Faculty
CHARLES F. FARMER, B.S.....	Superintendent of Physical Plant
H. J. GREENE.....	Acting Business Manager

*On leave of absence for Military Service.

THE FACULTY

Professors

ABER, WILLIAM M.....	Professor of Latin and Greek
A.B., Yale University, 1878.	
BONNER, JAMES H.	
Acting Dean, School of Forestry, and Professor of Forestry	
B.S., State University of Montana, 1907.	
BURLEIGH, CECIL.....	Professor of Violin
*CLEARY, GEORGE E.....	Professor of Law
A.B., University of Wisconsin, 1911; LL.B., 1914.	

* On leave of absence 1918-19.

- COFFMAN, GEORGE R.....Professor of English
A.B., Drake University, 1903; A.M., Harvard University, 1909; Ph.D.,
University of Chicago, 1913.
- CORBIN, FRANCES.....Professor of English
B.L., Ohio College, 1902.
- DAUGHTERS, FREEMAN.....Professor of Education
B.A., Kansas Normal College, 1896; S.T.B., Philadelphia Divinity School,
1903; M.A., Columbia University, 1915.
- ELROD, MORTON J.
Professor of Biology and Director of Biological Station
B.A., Simpson College, 1887; M.A., 1890; M.S., 1902; Ph.D., Illinois Wes-
leyan University, 1905.
- JAMESON, K. W. (Mrs.).....Dean of Women
B.A., Ohio Wesleyan University, 1905; M.A., University of Wisconsin,
1914; Ph.D., 1916.
- JESSE, RICHARD HENRY, JR.....Professor of Chemistry and Dean of Men
A.B., University of Missouri, 1902; A.M., Harvard University, 1907;
Ph.D., 1909.
- KIRKWOOD, JOSEPH EDWARD.....Professor of Botany
A.B., Pacific University, 1898; A.M., Princeton University, 1902; Ph.D.,
Columbia University, 1903.
- LENNES, N. J.....Professor of Mathematics
B.S., University of Chicago, 1898; M.S., 1903; Ph.D., 1907.
- LEVINE, LOUIS.....Professor of Economics
B.S., Classical College (Cherkassi, Russia), 1903; Ph.D., Columbia Uni-
versity, 1911.
- MOLLET, CHARLES E.
Dean of the School of Pharmacy and Professor of Pharmacy
Ph.C., Kansas University, 1904.
- PHILLIPS, PAUL C.....Professor of History
A.B., Indiana University, 1906; A.M., 1909; Ph.D., University of Illinois,
1911.
- POPE, WALTER L.....Professor of Law
A.B., 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.
- SCHUECH, FREDERICK C.
Vice President and Professor of Modern Languages
M.E., Purdue University, 1893; A.C., 1894.
- SCHREIBER, WILLIAM E.
Director of the Gymnasium and Professor of Physical Education
A.B., University of Wisconsin, 1904.
- SISSON, EDWARD O.....President and Professor of Education
B.S., Kansas Agricultural College, 1886; A.B., University of Chicago,
1893; Ph.D., Harvard University, 1905.

* On leave of absence 1918-19.

****SKEELS, DORR**

Dean of the School of Forestry and Professor of Forestry
B.S., Michigan Agricultural College, 1904.

SMITH, DELOSS.....Dean of the School of Music and Professor of Music

SMITH, FRANKLIN O.....Professor of Psychology
B.A., Iowa State University, 1906; M.A., 1907; Ph.D., 1912.

*****SMITH, HARRY EDWIN**

Business Manager and Professor of Business Administration
A.B., De Pauw University, 1906; Ph.D., Cornell University, 1912.

**SPAULDING, THOMAS C.....Professor of Forestry
B.S., State University of Montana, 1906; M.S., University of Michigan,
1909.

STONE, ARTHUR L.

Dean of the School of Journalism and Professor of Journalism
B.S., Worcester Polytechnic, 1884.

SWENSON, JOSEPHINE.....Professor of Piano

UNDERWOOD, J. HARDING.....Professor of Economics
A.B., Western College, 1902; A.M., Iowa State University, 1904; Ph.D.,
Columbia University, 1907.

WHITCOMB, EMELINE S.....Professor of Home Economics
B.S., Columbia University, 1910; M.A., 1918.

WHITLOCK, ALBERT N.

Dean of the School of Law and William Wirt Dixon Professor of Law
A.B., University of Kentucky, 1906; A.M., 1908; LL.B., Harvard Univer-
sity, 1911.

Associate Professors

▲ BATEMAN, WILLIAM G.....Associate Professor of Chemistry
B.A., Stanford University, 1907; M.A., 1909; Ph.D., Yale University, 1916.

Assistant Professors

CAREY, EUGENE F. A.....Assistant Professor of Mathematics
B.S., University of California, 1905; M.S., 1914.

CASEY, RALPH D.....Assistant Professor of Journalism
A.B., University of Washington, 1913.

FARMER, CHARLES F.

Superintendent of Physical Plant and Assistant Professor of Forestry
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 MADELINE

Assistant Professor of Public School Music

** On leave of absence for Military Service.

*** Resigned January 6th, 1919.

- **GITTINGS, INA E.....Assistant Professor of Physical Education
A.B., University of Nebraska, 1906.
- GRAFF, PAUL W.....Assistant Professor of Botany
B.S., Connecticut Agricultural College, 1907; A.M., Columbia University, 1916.
- HOWARD, JOSEPH W.....Assistant Professor of Chemistry
A.B., Shurtleff College, 1912; A.M., University of Illinois, 1913; Ph.D., 1915.
- HUGHES, HELEN S.....Assistant Professor of English
Ph.B., University of Chicago, 1910; Ed.B., 1910; A.M., 1911; Ph.D., 1917.
- JONES, HOWARD M.....Assistant Professor of English
A.B., University of Wisconsin, 1914; M.A., University of Chicago, 1916.
- **JONES, WEBSTER N.....Assistant Professor of Chemistry
A.B., University of Missouri, 1908; A.M., 1909.
- LUSSKY, GEORGE F.....Assistant Professor of Modern Languages
A.B., University of Chicago, 1907; A.M., University of Wisconsin, 1911; Ph.D., 1915.
- ***MERRILL, ARCHIBALD S.....Assistant Professor of Mathematics
A.B., Colgate University, 1911; A.M., 1914; Ph.D., University of Chicago, 1916.
- SCHWALM, FREDERICK D.....Assistant Professor of Fine Arts
A.M., Chicago Art Academy, 1908.
- THOMPSON, ROBERT N.....Assistant Professor of Physics
B.S., Peabody College, 1905.
- TREXLER, HARRISON A.....Assistant Professor of History
Ph.B., Bellevue College, 1906; Ph.D., Johns Hopkins University, 1914.

Instructors

- BUCKHOUS, M. GERTRUDE.....Instructor in Library Science
B.S., State University of Montana, 1900.
- DENFELD, GEORGE A.....Instructor in Business Administration
B.A., University of Wisconsin, 1917.
- ELROD, MARY.....Instructor in Biology
B.S., State University of Montana, 1911.
- GREENBURG, FRANCES.....Instructor in Education
A.B., Reed College, 1918.
- LANSING, HAROLD H.....Instructor in Forestry
B.S., State University of Montana, 1916.
- LEYDA, LUCILLE.....Instructor in Physical Education
B.A., University of Nebraska, 1916.

** On leave of absence.

*** On leave of absence for Naval Service.

- ORBECK, ANDERS.....Instructor in English
B.A., University of Minnesota, 1913; M.A., 1914.
- ROBINSON, EVANGELINE.....Instructor in Business Administration
A.B., Nebraska Wesleyan University, 1915.
- SIMES, LEWIS M.....Instructor in Law
Ph.B., 1913, University of Chicago; J.D., 1914.
- *SWAIN, JOSEPH WARD.....Instructor in History and Modern Languages
A.B., Columbia University, 1912; A.M., Harvard University, 1913; Ph.D.,
Columbia University, 1916.
- TEAGARDEN, IRENE.....Instructor in Home Economics
B.S., State University of Montana, 1915.
- VALENTINE, CHARLES P.....Instructor in Pharmacy
Ph.C., Montana College of Agriculture and Mechanical Arts, 1910; B.S.,
State University of Montana, 1917.
- VANDEUSEN, EDITH G. (MRS.).....Instructor in Home Economics
Ph.B., University of Chicago, 1918.
- WILSON, ROY A.....Instructor in Geology
B.S., State University of Montana, 1916; M.S., 1917.
- **WOOD, ELLA.....Instructor in Home Economics
B.S., University of Idaho, 1911; B.S. (H.Ec.), 1915.

Assistants

- COBURN, WILLIAM.....Assistant in School of Music
- SMITH, FLORENCE R. (MRS.).....Accompanist in School of Music
- WIRTH, C. A. (MRS.).....Assistant in English
B.A., Lawrence College, 1911.

SPECIAL LECTURERS IN LAW

- *ANGEVINE, FRED R.
LL.B., University of Washington, 1912.
- *WEBSTER, FREDERICK C.
A.B., Yale University, 1873.

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.

* On leave of absence for Military Service 1918-19.

** On leave of absence for Military Service.

RICE, GEO. C.
 Publisher, The Missoulian.

SNELSON, P. B.
 Editor, The Helena Record-Herald.

WALSWORTH, W. W.
 Editor, The Anaconda Standard.

On Mechanics of Printing

THORNTON, P. B., on Printing Presses.
 Bureau of Printing, Missoula.

WILLIAMS, A. W., on The Linotype.
 Bureau of Printing, Missoula.

LIBRARY STAFF

BUCKHOUS, M. GERTRUDE..... Librarian
 B.S., State University of Montana, 1900.

FEIGNER, M. WINNIFRED.....Assistant Librarian
 B.S., State University of Montana, 1908.

LAMONT, A. MARIE.....In charge of Loan Desk
 S.B., Simmons College, 1915.

BENNETT, GLADYS P. (MRS.).....Student Assistant

JOHNSON, RHEA M.....Student Assistant

SESTAK, BESSIEStudent Assistant
 A.B., State University of Montana, 1916.

BOURQUIN, J. JUSTIN.....Student Assistant in Law Library

SLOAN, EMILY E. (MRS.).....Student Assistant in Law Library

SPECIAL APPOINTMENTS FOR SUMMER QUARTER, 1918 ONLY

EDWARDS, DAVIS, Ph.B.....Instructor in Public Speaking

FONNER, DELMA.....Instructor in Psychology

FOSTER, F.M., Ph.D.....Instructor in Education

SWENSON, SADIE J.....Instructor in Home Economics

WIRT, LILLIAN J., A.B.....Instructor in Physical Education

STANDING COMMITTEES OF THE FACULTY

ADMISSION AND REGISTRATION :

Daughters, Coffman, Fenska, Gardner, Lussky, Speer.

ARCHIVES :

Phillips, Aber, Feighner, Scheuch, Stone.

ATHLETICS :

Schreiber, Leyda, Scheuch, Trexler, Whitlock.

CONVOCATION :

Pope, Casey, Daughters, Hughes, DeLoss Smith.

CURRICULUM :

Underwood, Daughters, Howard, Hughes, Kirkwood, Schreiber,
Whitcomb.

GRADUATE WORK :

Lennes, Graff, Hughes, Jesse, F. O. Smith.

HEALTH :

Schreiber, Bateman, Fenska, Mollet, Whitcomb.

INTERSCHOLASTIC :

Pope, Bonner, Casey, Denfeld, Elrod, Jameson, Thompson.

PUBLIC ACCOUNTANCY :

Underwood, Denfeld.

RECOMMENDATIONS :

Daughters, and major professors concerned.

SCHEDULE :

Carey, Daughters, Fenska, Hughes, Jesse, Kirkwood, Phillips.

SCHOLARSHIP :

Kirkwood, Bateman, Bonner, Greenburg, Jameson, Jesse, Underwood.

SELF HELP FOR MEN :

Elrod, Bonner, Denfeld, F. O. Smith, Stone, Wilson.

SELF HELP FOR WOMEN :

Jameson, Robinson, Teagarden.

STATE FAIR EXHIBITS :

Elrod, Lansing, Orbeck, Schwalm, Stone, VanDeusen.

STUDENT LIFE :

Scheuch, Jesse, Jameson, Schreiber, Stone.

STUDENT LOAN :

F. O. Smith, Elrod, Jameson, Greene, Jesse.

WELFARE COMMITTEE :

Scheuch, Coffman, Daughters.

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, Professor Edward O. Sisson.

ENGLISH, Professor George R. Coffman.

FINE ARTS, Assistant Professor Frederick D. Schwalm.
 GEOLOGY, Instructor R. O. Wilson.
 HISTORY AND POLITICAL SCIENCE, Professor Paul C. Phillips.
 HOME ECONOMICS, Professor Emeline S. Whitcomb.
 LATIN AND GREEK, Professor Wm. M. Aber.
 LIBRARY SCIENCE, Instructor Gertrude Buckhous.
 MATHEMATICS, Professor N. J. Lennes.
 MODERN LANGUAGES, Professor F. C. Scheuch.
 PHYSICAL EDUCATION, Professor W. E. Schreiber.
 PSYCHOLOGY, Professor F. O. Smith.

STUDENTS' ARMY TRAINING CORPS

ROSTER OF OFFICERS

MAGINNIS, JOHN S.....Commanding Officer
 Major, U. S. Infantry.

Section A. (Collegiate).

BARNETT, CLARENCE B.....Adjutant
 1st Lieutenant, U. S. Infantry.

DAVIS, RUSSEL L.
 2nd Lieutenant, U. S. Infantry.

EMERY, LAWRENCE W.
 2nd Lieutenant, U. S. Infantry.

FARNSWORTH, DR. H. B.....Surgeon

GALBER, Harry
 2nd Lieutenant, U. S. Infantry.

HATCH, LORENZO H.
 2nd Lieutenant, U. S. Infantry.

MUSSEY, WILLIAM O.
 2nd Lieutenant, U. S. Infantry.

STANLEY, ERNEST B.
 2nd Lieutenant, U. S. Infantry.

VALENTINE, CHARLES P.....Personnel Officer
 2nd Lieutenant, U. S. Infantry.

Section B. (Vocational).

KIRKHAM, HAROLD A.....	Surgeon
1st Lieutenant, M. C., U. S. A.	
REGAN, THOMAS P.	Dentist
1st Lieutenant, D. C., U. S. A.	
SOVEY, SIDNEY S.....	Quartermaster
2nd Lieutenant, Q. M. C., U. S. A.	
SPOHN, JOHN H., JR.....	Adjutant
2nd Lieutenant, U. S. Infantry.	

CIVILIAN STAFF. SECTION B.

BONNER, JAMES H.....	Sectional Director
BELLOWS, A. O.....	Instructor in Automobile Repair
CUTTING, ALBERT.....	Instructor in Radio Telegraphy
DESCHAMPS, JOSEPH A.....	Instructor in Blacksmithing
HAUK, JOSEPH.....	Instructor in Automobile Repair
HIRST, EDWARD L.....	Instructor in Topographic Mapping
LESTRO, E. J.....	Instructor in Motor Truck Driving
LINK, W. H.....	Instructor in Ignition
McELWEE, JAMES.....	Instructor in Radio Telegraphy
MCGURK, J. B.....	Instructor in Pipe Fitting
MICHEL, H. R.....	Instructor in Radio Telegraphy
SHIPPY, HARRY.....	Instructor in Automobile Repair
STRUNK, RAY.....	Instructor in Ignition

EXAMINERS IN PUBLIC ACCOUNTING**FOR THE UNIVERSITY**

Professor J. H. Underwood, Instructor George A. Denfeld.

FOR THE STATE

J. C. Phillips, W. D. Mangam; Donald Arthur (Secretary) of Butte.

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.

State University

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 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, who came to Montana from Stanford university. During the administration of President Duniway, the summer session was inaugurated and the School of Law established. In 1912, Edwin Boone Craighead of Tulane university, succeeded President Duniway. He continued in office until 1915. Under his presidency the Schools of Forestry and of Journalism were established; the School of Pharmacy re-organized; the departments of Business Administration and of Domestic Science 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 university in 1917, coming to Montana from Idaho, where he had held the office of State Commissioner of Education.

THE CAMPUS.

The university campus comprises 60 acres. It lies southeast of Missoula at the head of the Missoula valley. The entrance to the campus is on the west side, from University avenue. 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, 2,000 feet high, upon whose slope the university owns 520 acres, extending to the summit.

BUILDINGS.

The buildings of the State University are: University hall, Science hall, Natural Science hall, Craig hall, Library hall, the Gymnasium, Forestry building, Journalism building, Music building, the Infirmary, Simpkins hall, Cook hall, and Y. M. C. A. building.

University hall is the administration building. Here also are the assembly hall of the university and classrooms, lecture rooms and laboratories.

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

Natural Science hall, completed January, 1919, is a modern, three-story laboratory 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 woman's dormitory, entirely used as a domicile for the women students of the institution.

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

Library hall contains the university library, the law library, the classrooms of the School of Law and other lecture and classrooms.

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

The infirmary is a cottage, designed for the isolation of students who may be suffering from contagious or infectious diseases.

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.

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 and sanitary conditions are excellent. The scenery of western Montana is beautiful. As a place for college residence, Missoula offers special advantages.

REQUIREMENTS FOR ADMISSION

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

The completion of a high school or preparatory course of four years is the standard for regular entrance to the freshman class. This must include at least fifteen units of work. The term unit means one subject pursued for at least thirty-six weeks with not fewer than five recitations a week of forty-five or more minutes each. Two periods of laboratory, shop or drawing work count the same as one recitation.

Applicants for admission without condition to the freshman class must have three (3) units in English composition and literature, and are advised to include among the required 15 units at least the following:

Mathematics, 2 units
 Science, 1 unit
 History, 1 unit.

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ADMISSION ON CERTIFICATES

Graduates of the accredited high schools of Montana obtain admission by presenting certificates of principals stating subjects taken, time given for each, and grades obtained.

Blanks for such certificates are furnished by the registrar. These should be filed in the registrar's office on or before the first day of registration.

ACCREDITED HIGH SCHOOLS.

1918-1919

District High Schools: Alberton, Anaconda, Baker, Belgrade, Belt, Big Sandy, Billings, Bridger, Broadview, Butte, Chinook, Columbia Falls, Columbus, Conrad, Corvallis, Culbertson, Cut Bank, Darby, Fairview, Florence, Forsyth, Fromberg, Glasgow, Great Falls, Hamilton, Hardin, Harlowton, Havre, Helena, Hobson, Hysham, Joliet, Jordan, Judith Gap, Laurel, Libby, Malta, Manhattan, Moore, Plains, Plentywood, Polson, Pony, Poplar, Ronan, Rosebud, Roundup, Ryegate, St. Ignatius, Shelby, Sheridan, Sidney, Stanford, Stevensville, Stockett, Terry, Thompson Falls, Three Forks, Valier, Victor, Virginia City, Whitefish, Whitehall, White Sulphur Springs, Worden.

County High Schools: Beaverhead, (Dillon); Broadwater, (Townsend); Carbon, (Red Lodge); Chouteau, (Fort Benton); Custer, (Miles City); Dawson, (Glendive); Fergus, (Lewistown); Flathead, (Kalispell); Gallatin, (Bozeman); Granite, (Philipsburg); Jefferson, (Boulder); Lincoln, (Eureka); Missoula, (Missoula); Park, (Livingston);

Powell, (Deer Lodge); Sweet Grass, (Big Timber); Teton, (Choteau); Wibaux (Wibaux).

Private Schools: Academy of Montana Wesleyan College, (Helena); Academy of Mount St. Charles College, (Helena); Butte Business College, (Butte); Central High School, (Butte); Loyola High School, (Missoula); Mount Angela Ursuline Academy, (Great Falls); Polytechnic Institute, (Billings); Sacred Heart Academy, (Missoula); St. Vincent's Academy, (Helena.)

Preparatory work done in other schools than those accredited may receive credit. Applicants from such schools should present certificates stating the same points as those given from accredited schools. Blanks for this purpose are furnished by the registrar. When the evidence of certificate is not clear and satisfactory, examinations will be given.

Graduates of high schools not in Montana are admitted on certificates without examination, if such high schools are accredited to their own state universities.

ADMISSION ON EXAMINATION

Applicants wishing to receive entrance credits on subjects for which they do not present satisfactory certificates are required to take examinations on days prescribed in the calendar. For the academic year 1919-20 these days are September 26-27, January 3 and March 27.

Those who are preparing to take entrance examinations should correspond with the registrar for suggestions in regard to such preparation.

CONDITIONAL ADMISSION

The entrance requirement of the completion of a four-years preparatory course with at least fifteen units of credit may be modified in individual cases by permitting the conditional admission of students if they are entitled to at least thirteen entrance units and if they are recommended by the principals of their schools.

Entrance conditions must be removed within one year from the time of admission. This may be accomplished by private study or tutoring and the passing of entrance examinations; by arranging to take the requisite courses in the regular classes of the Missoula County High school; or by transferring certain college credits and counting them toward entrance standing instead of toward graduation.

ADMISSION OF SPECIAL STUDENTS

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

dents, if they give satisfactory evidence that they are prepared to pursue successfully the special courses desired.

Special students may acquire status as regular students and become candidates for degrees upon complying with the rules applicable to such cases.

ADMISSION TO ADVANCED STANDING

Students entering from collegiate departments of other colleges and universities must bring certificates of honorable dismissal. Upon presentation of the proper certificates they will receive advanced credit for courses taken in institutions of approved standards.

ADMISSION OF WAR SPECIALS

The following rules govern the admission of students who have had military service for which credits are allowed by the University:

a. A personal interview of every candidate by the officer (or by one of the members of the committee), the purpose of which would be to determine the character of the applicant's schooling and experience and his general qualifications for the college work he wishes to undertake.

b. The army intelligence test (the so-called Alpha test).

c. In the case of candidates desiring to enter courses of study which by their professional nature require advanced and technical preparation, the giving of such examinations as will satisfy the institutional officers of the applicant's fitness to pursue such courses.

REQUIREMENTS FOR GRADUATION

For graduation a student must complete 186 credits of work. One credit represents three hours of time each week throughout one quarter, occupied in lectures or recitations and in preparation. Time given to laboratory work is credited on the same basis for valuation, three hours for one credit.

REQUIRED OF ALL

English Composition.....	9 credits
2 years Military Science and Physical Education (Men).....	12 credits
2 years Physical Education (Women).....	6 credits
College Education (Education 10).....	1 credit

RESTRICTED ELECTIVES

Science or Mathematics.....	9 to 15 credits
Language other than English.....	18 to 30 credits
History or Economics.....	9 to 15 credits
Literature or Philosophy.....	9 to 15 credits

For the special requirements for candidates for the University Certificate to teach, see page 23.

MAJOR-DEPARTMENT ELECTIVES

Not later than the Junior year, every student must choose a major department. This department may command, except in the case of students who are candidates for the University certificate of qualification to teach, from 45 to 60 credits of the student's time including whatever credits may have been earned in the restricted-elective list above. Professors in the major departments define their prescriptions for each student. Candidates for the University certificate are not required to take more than 54 credits in the major department.

FREE ELECTIVES

The remainder of the 186 required credits are entirely free electives. 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.

Requirements beyond English Composition and Physical Education do not apply to students in professional schools, since the faculties of these schools definitely prescribe their work.

DEGREES AND CERTIFICATES

The State University confers the degree of Bachelor of Arts, Bachelor of Science and, to advanced students, the master's degree.

Baccalaureate Degrees

Requirements for these degrees are given in detail under the chapter heading, "Requirements for Graduation." In all departments of the College of Arts and Sciences the work of the University is so arranged that each student has wide latitude in determining his course. In the professional schools, the work is more closely prescribed.

Advanced Degrees

Work of advanced character, involving research, may be pursued at the University after graduation. Detailed information as to the grad-

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uate work offered by the University will be found in the description of courses, under the heading, "Graduate Work."

Certified Public Accountancy

Chapter 39 of the Session Laws of Montana of 1909 provides for the regulation of the practice of public accounting in the state. The State University administers this law and issues certificates of competency. The provisions of the law are carried out by:

(a) A University Committee of Accountancy, consisting of Professor J. H. Underwood, chairman, and George A. Denfeld.

(b) A Board of Examiners, consisting of three certified public accountants of the state of Montana, appointed by the Chancellor of the University. The members of the present board are: J. C. Phillips, W. D. Mangam and Donald Arthur, secretary, of Butte. The registrar of the State University will send, upon application, a bulletin containing the particular of the law and its administration.

University Certificate of Qualification to Teach

The following regulations covering general and professional training are in force:

The certificate of Qualifications to Teach is granted only to persons who secure the Bachelor of Arts, the Bachelor of Science, 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. General Psychology (10 credits) is prerequisite to courses in Education.

The candidates 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**. The Student should have from 37 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.

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 Board opportunities for observation and teaching with the assistance of the faculty of the high school will be given in the second and third quarters of the

senior year to students who are recommended as candidates for the Certificate 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.

CREDIT FOR WAR SERVICE

Credits toward the degrees of the University will be granted for definite and measurable attainments of mind resulting from service in the army and navy of the United States. The number of credits allowed for military service will be determined by the instructor in the branch in which application for credits is made, subject to the approval of the committee on admission and registration. The credit to be allowed may be determined by examination for advanced standing in the University or by special examination in subjects which are not given in this University. Added credit to the maximum credit-value of a course, not to exceed 50 per cent of that value, may be granted upon presentation of proof of special attainment in war service. **Application for war-service credits must be made by the student not later than 12 months after his discharge from service.**

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.

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 12 credits of regular university work; (3) they must have passed in at least 12 credits of the work of the previous semester; (4) they must not have total delinquencies in their previous records, amounting to more than 12 credits; (5) they must register not later than two weeks after the opening of the quarter.

These activities, in addition to athletics, come under the university's eligibility rules: Intercollegiate debate, intercollegiate oratory, managership of the University Sentinel, managership of The Kaimin, managership of the Associated Students of the University of Montana, contests for university prizes, carrying a leading part in a university play.

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 passing grade.

"E"—Failure.

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

In credits counted toward graduation, a student may not have more than 25 per cent of such credits of grade "D."

A student may withdraw from a course in which he has registered: During the first week of a quarter, with the consent of his adviser; during the second week, with the consent of adviser and instructor; during the period from the third to the ninth week, with the consent of adviser and instructor and the formal permission of the committee on registration and admission. 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.

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 and makes a charge of \$26 to \$28 a month for room and board. 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. The university reserves the right to raise the charge for board in case there is further increase in the prices of foodstuffs.

Men students may find board and room in Simpkins hall, the men's dormitory, at a cost of \$22.50 for room and board or \$20 a month for board alone. 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.

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. No war tax that has been paid by any student will be refunded under any condition whatever.

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 registrar.

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 committee of the faculty 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 one or both terms of 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.	
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

Biology:	Fees	Deposits
11. Elementary Biology	\$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	2.50 per Q.	
24. Physiology	2.50 per Q.	
118. Entomology, Advanced.....	2.50 per Q.	
122. Histology, Advanced.....	2.50 per Q.	
120. Bacteriology, Advanced	2.50 per Q.	
Biological Station:		
Tent Rent	\$5.00 per session	
Tent Rent for less than session.....	1.00 per week	
Camp Fee	5.00 per week	
Board	6.00 per week	
Botany:		
11. General Botany	\$1.00 per Q.	
21. Histology	3.00 per Q.	
22. Histology	3.00 per Q.	
25. Rural Botany	2.00 per Q.	
31. Forest Pathology	3.00 per Q.	
41. Comparative Morphology.....	3.00 per Q.	
51. Ecology	2.00 per Q.	
61. Systematic Botany	1.00 per Q.	
63. Systematic Dendrology.....	1.50 per Q.	
65. Systematic Mycology	3.00 per Q.	
F1. Forestry Botany.....	1.00 per Q.	
F2. Range Plants.....	1.00 per Q.	

Chemistry:

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.

Geology:

11. General Geology.....	\$1.00 per year
17. Physical Mineralogy.....	3.00 per Q.
22. Blowpipe Analysis.....	2.00 per Q.
Forestry Geology.....	1.00 per Q.

Home Economics:

11. or 11a. Clothing.....	\$1.00 per Q.
13. Foods.....	7.00 per Q.
15. General Food Study.....	7.00 per Q.
17. Dress.....	1.00 per Q.
21. Problems in the Preparation and Service of Food.....	7.00 per Q.
22. Dietetics.....	7.00 per Q.

Music: Voice, Piano and Violin.

1 lesson per week.....	\$15.00 per quarter
2 lessons per week.....	28.00 per quarter
Students registering for less than a full quarter will be charged at the rate of \$1.50 per lesson.	

Harmony.....\$ 3.00 per quarter
Piano Rent.

Use of piano one hour per day.....	\$ 3.00 per quarter
Each additional hour per day.....	2.00 per quarter
Piano rent must be paid for full quarter.	

Pharmacy:

11. Introductory Pharmacy.....	\$2.00 per yr.	\$2.00 per yr.
12. Manufacturing Pharmacy.....	6.00 per yr.	4.00 per yr.
13. Pharmacognosy.....	4.00 per yr.	
22. Drug Analysis.....	6.00 per yr.	2.00 per yr.
23. Dispensing.....	4.00 per yr.	2.00 per yr.

Physics:

A. Elementary Physics.....	\$1.00 per Q.	\$1.00 per Q.
M. Military Physics.....	1.00 per Q.	1.00 per Q.

11. Mechanics, Molecular Physics & Heat	2.00 per Q.	1.00 per Q.
12. Electricity, Sound, & Light.....	2.00 per Q.	1.00 per Q.
14. Electrical Measurements		3.00 per Q.
31. Junior Laboratory	3.00 per Q.	
32. Junior Laboratory	3.00 per Q.	
33. Junior Laboratory	3.00 per Q.	

Correspondence Work:

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

Room and Board:

Dormitory Room and Board, a month.....	\$26.00 or \$28.00
Depending upon size of room.	
Dormitory Board	\$20 per mo. for 3 meals per day
	\$17 per mo. for 2 meals per day

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 shall be made of fees 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 retain \$1.50 per lesson for each lesson which has been taken 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 or spring quarter, \$3.00 will be refunded.

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:

HONOR SCHOLARSHIPS

In order to promote the attendance of students of ability and promise upon 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.

In the administration of this policy the number of scholarships awarded each year in any accredited high school will depend upon the number of graduates, as hereinafter specified. In no case, however, will more than two such scholarships be awarded each year in any high school for any one of the institutions of the university. High School Honor Scholarships may be awarded only to students who belong to the highest one-fourth of the graduating class in scholarship.

The following general regulations govern the awarding of High School Honor Scholarships:

1. Upon the presentation of the required certificate from the principal, the Chancellor of the University will authorize the award, each year, to graduates of each of the accredited public high schools of the state, of High School Honor Scholarships for the component institutions of the University of Montana.

2. To be eligible for a High School Honor Scholarship the individual must be certified by the principal:

- (a) To be a graduate of an accredited high school of the state;
- (b) To belong to the highest one-fourth of his class in scholarship;
- (c) To be a student of ability and promise of success in college or professional school; and
- (d) To be the highest in scholarship of those members of the graduating class desiring to attend the university institution for which the honor scholarship is to be awarded.

3. No more than one honor scholarship may be awarded to the membership of any graduating class having seven or fewer graduates; no

more than two scholarships may be awarded to the membership of any graduating class having eight to eleven graduates; no more than three scholarships may be awarded to the membership of any graduating class having twelve to fifteen graduates; no more than four scholarships may be awarded to the membership of any graduating class having sixteen or more graduates.

4. No more than two High School Honor Scholarships may be awarded each year in any high school for any one of the institutions of the university.

5. The holders of High School Honor Scholarships shall be exempted from the payment of all customary fees except the student activity fees and the special fees in the School of Music. All holders of High School Honor Scholarships will be expected to make the required course deposits.

6. Any High School Honor Scholarship will become void unless the holder enters one of the institutions of the university within eighteen months after graduation from the high school. The holder of a High School Honor Scholarship must give notice to the registrar of the institution of his intention to utilize the scholarship, not later than September 1 of the year in which he intends to enter the institution.

7. Any High School Honor Scholarship will be valid only as long as the holder is in attendance upon some regular course leading to graduation; provided, however, that no High School Honor Scholarship shall be valid for a period longer than five years.

8. In case any individual to whom has been awarded a High School Honor Scholarship relinquishes the scholarship without entering the institution, or for any reason fails to enter the institution in compliance with section 6 of these regulations, the high school principal may certify the next ranking eligible member of the same graduating class desiring to enter the particular institution.

9. The privileges of a High School Honor Scholarship may be retained only so long as the holder maintains a standard of scholarship and regularity of attendance satisfactory to the faculty of the institution at which he is in attendance.

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.

S. A. T. C. SCHOLARSHIP

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.

BONNER SCHOLARSHIP

The Bonner Scholarship is awarded to a college student at the end of his freshman year to be held by him for three years, unless forfeited as specified hereafter. In case the use of the scholarship is forfeited, it is awarded to another student in the usual manner and for a period of three years.

To be eligible as a candidate for the Bonner Scholarship a student must not have obtained more than 20 credits in this or any other university (including advanced standing for work in secondary school) prior to the year of his candidacy and must have earned at least forty-five (45) credits in this University during this same year.

The Bonner Scholarship shall be awarded to a student ranking among the highest in scholarship. In making the award the committee shall take into consideration:

- (a) The scholarship and the moral qualities of the candidate.
- (b) The conditions under which the candidate's work has been done.
- (c) The probable future usefulness of the candidate.
- (d) The probable difference which the scholarship will make in the life of the recipient.

The purpose of the Bonner Scholarship is to aid a student of fine mental and moral qualities to obtain a university education who might otherwise find it highly difficult, if not impossible, to do so.

The Bonner Scholarship shall be awarded by a committee consisting of five members, of which the dean of men and the dean of women shall be ex-officio members. The other three members shall be appointed by the president of the University. This shall be a permanent committee, and its members shall hold office until their successors are appointed.

The scholarship may be forfeited by essential change in any of those conditions which made the candidate eligible for it. Absence from the University due to any cause whatsoever, which makes it apparent that the student cannot finish the undergraduate course in three years

from the time the scholarship was awarded, shall cause forfeiture of the scholarship. The awarding committee shall decide whether or not the scholarship has been forfeited for any reason whatsoever.

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.

BENNETT ESSAY PRIZE

This prize shall be awarded upon recommendation of the Department of History and Political Science. The annual proceeds of \$400 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 contest itself is under the direction of the Department of History and Political Science.

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.

BONNER MEDAL

The Bonner Music Medal, given annually in the School of Music by Mrs. E. L. Bonner, shall be awarded upon recommendation of the School of Music.

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 C. A. DUNIWAY SCHOLARSHIP BOOKS

A fund of \$400 established by former President Duniway provided standard books within the various fields of knowledge to be awarded annually to the students distinguishing themselves by scholarships in the various departments.

A book shall be awarded upon recommendation of the several departments in the College of Arts and Sciences to one student distinguished for scholarship in each of these departments.

At the same time that the student is named to the committee the department shall also indicate the book that is to be given.

At some time earlier than six weeks before commencement the committee shall notify the various departments as to the equal portion of the fund available for each and shall also notify the librarian of the total amount of the fund available.

Nominations from the various departments must be in the hands of the committee not later than the fourth week preceding commencement. The department failing to respond within the specified time shall forfeit its privilege for that year.

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.

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.

The Charles F. Mollet prize for scholarship and proficiency in pharmacognosy.

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 ex-Senator 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 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.

Prizes in Declamation. Gold, silver and bronze medals are given 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 Mercan-

tile 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 1919 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.

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.

ELIGIBILITY

In the case of competitive prizes (Joyce Memorial Prize, Bennett Essay Prize, and similar ones 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 chosen by the Distributing committee with a view to securing the best results for the student from his relationship with 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.

DEANS OF MEN AND OF 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 administer probation and strict probation. They may recommend to the president of the University the suspension 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.

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

is issued quarterly, and contains 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.

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 literary society, the Hawthorne, is open to both men and women. Students will find membership in this society helpful and pleasant.

Branches of the Y. M. C. A. and Y. W. C. A. are organized in affiliation with intercollegiate associations. These associations and the Catholic Students' Association carry on work for the religious and social life of the university.

Seven musical organizations are in existence, the University Glee Club, composed of young men; the Girls' Glee Club, the Girls' Quartette, the Choral Society, composed of men and women, the University Orchestra, the String Quartette 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, a non-secret society, devoted to advancing the interests of the university in every feasible way.

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. Much interest is taken in the meetings by forestry students and students in science departments of the university and by the professional foresters in the headquarters of the district forester in Missoula. 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.

The Masquers Club, an undergraduate dramatic organization; the Press Club, the Pharmaceutical Society, and the Rifle Club, which is affiliated with the National Rifle Association, perform functions indicated by their titles.

HONORARY PROFESSIONAL FRATERNITIES

In addition to the social fraternities, there are chapters of national and local honorary professional fraternities at the university.

Sigma Delta Chi is a national professional journalism fraternity with membership limited to men majoring 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.

Phi Chi is a local pharmaceutical fraternity organized in 1916.

INTERCOLLEGIATE DEBATE

The State University has a very creditable record in intercollegiate debating. Owing to conditions resulting from the war, this student activity has been much limited recently. With the return of normal conditions, relations with other colleges and universities in the Northwest will be resumed.

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 junior class of each current year issues an annual entitled The Sentinel. This book is a valuable record of the activities of each year.

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 Co-operative cottage, in chapter houses or in approved residences. Exceptions are made only by permission of the dean of women.

The university maintains one large hall of residence, Craig Hall, which accommodates about seventy-two students. Mrs. Lucy E. Wilson is the matron in charge. 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 matron, form a house committee to whom all matters of importance are referred.

The Eloise Knowles Co-operative cottage accommodates eleven women. Miss Emeline S. Whitcomb of the Home Economics department, is the faculty resident of the cottage.

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 Women's League 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.

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.

Mrs. K. W. Jameson, the dean of women, invites correspondence with parents and guardians and gladly co-operates with them regarding the welfare of students.

Organizations

The Women's League is an organization for the women of the university only. Every woman student is a member of this organization, 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 Women's League 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' Association is an organization composed of girls who do not live in Craig Hall or in chapter houses.

Mortar Board is an organization of senior girls.

The Young Women's Christian Association is an organization whose avowed purpose is, "to unite the women students in common loyalty to Jesus Christ." It holds regular bi-monthly services on Tuesday afternoons at 4:30 in the parlors of Craig Hall.

Theta Sigma Phi is a chapter of the honorary national journalist sorority and was established in Montana in 1916.

ATHLETICS

The faculty committee on Athletics has general oversight of athletic sports. The details of management are in the hands of the executive committee of the Associated Students, subject to approval by the faculty committee.

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 northeast 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 fourteen years the university has held annual interscholastic invitation meets for track and field contests on Montana field. Invitations to participants are extended to all high schools in the state.

In determining and administering rules of eligibility for contestants 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 contest, 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.

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.

THE LIBRARY

The General Library, consisting of about 40,000 volumes and 18,000 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 a designated depository of documents issued by the United States government. It is also a depository for the publications of the National Organization for Public Health Nursing and similar organizations. These publications may be borrowed by any one in the state who is interested in public health work.

The Library is open from 8:15 a. m. to 5:30 p. m., and from 7:00 to 9:30 p. m. except on Saturday, when the hours are from 8:15 a. m. to 12:30 p. m., and from 1:30 to 5:00 p. m. 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.

THE MUSEUM

A large and well lighted room in the new Natural Science building is set apart for housing the scientific collections of the University. Since the first establishment of a small museum in 1898 to the present material has been accumulating from various sources. Cases have been

made to contain the material. The result of the twenty years of preparation includes much that is of value. Much of it is priceless. Most of it pertains to the fauna and flora of the state and to the state's industries.

Owing to the lack of room for teaching purposes, which demanded every spare corner in the various buildings on the campus, the cases and collections have stood in the halls of the main building for several years, without attention. The new quarters will make possible extensive class use of material which has heretofore been impossible, will afford complete fire protection, and will make possible display for public exhibition and the education of the visiting public which is so needful and desirable.

It is now possible to build or make 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. The new plans and excellent quarters will make this important phase of study much more valuable through its enlargement.

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 take special pains 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 lepidotera; a collection of plants embracing several thousand species including the private collection donated by Professor M. J. Elrod, many additions through collection 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 miscellaneous articles.

Organization for Instruction

- 1.—COLLEGE OF ARTS AND SCIENCES.
 - a—Biology.
 - b—Botany.
 - *c—Business Administration.
 - d—Chemistry.
 - e—Economics.
 - *f—Education.
 - g—English.
 - h—Fine Arts.
 - i—Geology.
 - j—History and Political Science.
 - k—Home Economics.
 - l—Latin and Greek.
 - m—Library Science.
 - n—Mathematics.
 - o—Military Science.
 - p—Modern Languages.
 - q—Physical Education.
 - r—Physics.
 - s—Psychology and Philosophy.
- 2.—SCHOOL OF FORESTRY.
- 3.—SCHOOL OF JOURNALISM.
- 4.—SCHOOL OF LAW.
- 5.—SCHOOL OF MUSIC.
- 6.—SCHOOL OF PHARMACY.
- 7.—GRADUATE STUDY.
- 8.—SUMMER QUARTER.
- 9.—PUBLIC-SERVICE DIVISION.

*The organization of these departments into schools has been authorized by the State Board of Education.

Special Announcements

I. Reserve Officers' Training Corps, Senior Division

has been established by the War Department at the State University under the direction of the Committee on Education and Special Training. The following officers have been detailed to this institution: Lieutenant Colonel Alvin C. Gillem, Jr., Infantry, Professor of Military Science and Tactics and Commandant; First Lieutenant Clarence W. Thomas, Infantry, Assistant Professor of Military Science and Tactics.

II. The State Board of Education has authorized the establishment of the following new schools:

(a) School of Education

for the training of teachers especially for high school principals, supervisors and administrative officers.

(b) School of Business Administration

for the training of men and women to enter positions in the world of business and industry calling for a high degree of office skill and for executive and administrative ability.

Separate announcements of these three new organizations will be issued in the near future and will be sent on request.

College of Arts and Sciences

COURSES OF INSTRUCTION

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. Courses which are repeated in the summer quarter are so marked. There are, however, special summer-quarter courses which do not appear in this outline. These will be found listed in the summer quarter bulletin. 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. Except where otherwise noted, the ranking professor in each department is chairman of that department.

BIOLOGY

PROFESSOR, MORTON J. ELROD. INSTRUCTOR, MARY ELROD.

Those who do major work in biology must take courses in the department to the extent of 45 credits. They must have a reading knowledge of German or French, or preferably, of both. They must complete one year in botany and one year in chemistry, and must have historical and dynamic geology.

See page 123 for suggested courses for students preparing to study medicine.

For Undergraduates

11. Elementary Zoology. 3 Q. Autumn, winter and spring. 12 cr. Fee \$2.50. Open to all students, and filling the science requirement for graduation. Introductory course dealing with anatomy, distribution and habits of animals. Textbooks, lectures, library references and laboratory work, the latter requiring one-half of the time. Field excursions. Attention to local fauna. Mr. Elrod, Miss Elrod.

13. Animal Ecology. 1 Q. Spring; summer. 5 cr. Prerequisite, Zoology 11. Fee \$2.50. Animals as affected by environment, adaptability of structure to modes of life. Special reference to local fauna.

16. Protozoology. 1 Q. Winter. 4 cr. Prerequisite, one year of Botany or Zoology. Fee \$2.50. 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.

17. Entomology. 1 Q. Spring; summer. 5 cr. Fee \$2.50. Open to all students. Insects, including their structure, classification, distribution, benefits and injuries, and their relation to animals and man through diseases. Mr. Elrod.

19. General Bacteriology. 1 Q. Autumn. 4 cr. Prerequisite, General Chemistry, and either Botany or Zoology. Fee \$5.00. This course is planned specially to meet the wants of the students in the School of Pharmacy and the department of Home Economics. It includes both laboratory and class work. Mr. Elrod, Mr. Graff.

21. Histology. 1 Q. Autumn. 4 cr. Fee \$2.50. Prerequisite, Zoology 11. Practical course in the technique of sectioning, staining and mounting organisms and tissues. Two lectures or recitations and two laboratory periods.

Alternates with Embryology 22.

22. Embryology. 1 Q. Autumn. 4 cr. Fee \$2.50. 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.

Alternates with Histology 21.

23. Comparative Anatomy. 2 Q. Winter and spring. 8 cr. Fee \$2.50. Prerequisite, Zoology 11. Planned for students in Physical Education, and for those who wish to enter Medicine. One-half the work is in the laboratory, or two periods a week for the two quarters.

24. Physiology of the Human Body. 1 Q. Spring. 5 cr. Open to all students, but a year of elementary Botany or Zoology is desirable in preparation. Fee \$2.50. Planned to meet the requirements of teachers, students of Physical Education, Home Economics and Pharmacy, and those wishing a course of general information. Three lectures or recitations and two laboratory periods. Mr. Elrod.

25. Teaching Biology. 1 Q. Winter. 3 cr. Lectures and discussions dealing with the various methods of presenting the subject, selection of apparatus, preparing a laboratory, selecting a library, and the various topics that come to the teacher for solution. Mr. Elrod.

26. General Hygiene. 1 Q. Winter. 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. Mr. Elrod.

For Undergraduates and Graduates

115. Theoretical Biology. 1 Q. Autumn quarter. 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.

118. Entomology, Advanced. 1 Q to 4 Q. Autumn, winter, spring and summer. Credit to be arranged. Fee \$2.50. 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. Elrod.

122. Histology, Advanced. 1 Q. Winter. 4 cr. Fee \$2.50. Follows Histology 21, with special reference to tissue structure and to pathology. Special work and special problems may be taken up by students individually.

120. Bacteriology, Advanced. 1 Q. Winter; spring. 5 or more cr. Prerequisite, Bacteriology 19. Fee \$5. Investigations of the bacteria of milk, milk products, air, water, the bacterial diseases of plants and animals, and kindred topics. Individual work. Laboratory study with library references. Mr. Elrod.

129. Biological Seminar. 3 Q. Autumn, winter and spring. 3 cr. Required of those who do major work in this department, 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.

131. Research. 1 Q. to 4 Q. Autumn, winter, spring or summer. Opportunity will be given graduate students and others of sufficient fitness 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.

For Graduates.

201. Research. 4 Q. Autumn, winter, spring and 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.

Biological Station

A station for instruction and research, located at Yellow bay on the east shore of Flathead lake. The University owns 89 acres here with nearly a mile and a half of shore line; the institution is owner also of 40 acres on Wild Horse island and 40 acres on Bull island. All of this land is for biological use. The station is accessible by a good automobile road or by boat from either end of the lake, connecting with both Great Northern and Northern Pacific trains.

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, also, a good equipment of boats and launches, with the 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 and 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 for \$6 a week.

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.

Those who need special apparatus should notify the director before coming. Investigators may make arrangements for longer period than the regular six weeks of the session.

Students who are beginning research, or who work under direction, are recommended to choose subjects in the following fields:

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.

Description of Courses

For the season 1918 the following courses were offered:

Systematic Botany—Plant analysis and field ecology. The classification and distribution of the flowering plants of the region. Most of the trees and shrubs of the northwest region are found close to the station.

Systematic Mycology; Morphology, Ecology and Taxonomy—The study of the forms of the region, including those found in the main lake, in ponds, and in the streams will be undertaken in this course.

Invertebrate Morphology—A study of types and of groups of animals of the locality. This will include protozoa, sponges, hydra, molluscs, worms and insects.

Animal Ecology—A study of the conditions of life in the lake and ponds, the number and distribution of lake animals, their habits and habitats, their reactions to stimuli under normal and artificial conditions.

Entomology—A course dealing with insects, particularly with those of the region.

Land Animals—Special reference to the animal communities of the ponds, prairies and forests, dealing particularly with vertebrates. The localities for study include the lake shore, the prairies, the orchards, the deep woods, the open ponds, the swamps, the mountain ridges, the talus slopes, and the high summits.

BOTANY

PROFESSOR, J. E. KIRKWOOD. INSTRUCTOR, PAUL W. GRAFF.

Those who do major work in this department must take courses 11, 21, 22, and 61, and enough additional credits in other courses in Botany to total from 40 to 50 credits. In addition the following subjects are required: Chemistry, Zoology, and Geology, in general courses, and at least one year of French. For students who do minor work in this department, courses 11, 21, 22, and 61 are suggested.

For Undergraduates

11. General Botany. 2 or 3 Q. Autumn, winter and spring. 8 or 12 cr. In summer quarter, 5 cr. Open to all students. Field work in spring quarter. Fee \$1 a quarter.

Note: First two quarters are continuous. Students satisfactorily completing the same have the option in the third quarter of (a) continuing the same course or (b) electing Plant Histology (21) or (c) Rural Botany (25). Mr. Kirkwood, Mr. Graff.

12. Elementary Plant Structure and Physiology. 1 Q. Autumn. 3 cr. The study of plants from the standpoint of the formation, movement and storage of foods, the production of textile fibres and other products. Fee \$1.00. Mr. Kirkwood, Mr. Graff.

13. Plant Genetics. 1 Q. Winter. 3 cr. No prerequisite. A study of the laws of inheritance in the plant world as developed from recent investigations. A brief historical treatment, and an application of genetics to the improvement of cultivated plants. Mr. Graff.

15. History of Botany. 1 Q. Winter. 2 cr. Lectures on the development of botanical science. Mr. Graff.

21. Plant Histology. 1 Q. Spring. 4 cr. Prerequisite, 11, (Autumn and winter). Fee \$3. 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, Mr. Graff.

22. Plant Physiology. 1 Q. Autumn. 5 cr. Prerequisite, 11, 21 or 25. Fee \$3. 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, Mr. Graff.

25. Rural Botany. 1 Q. Spring. 4 cr. In summer quarter 5 cr. Prerequisite, 11 (autumn and winter). Fee \$2. A course dealing with the botanical aspects of agriculture, for those who expect to teach the subject in the high schools of Montana. Mr. Graff.

31. Forest Pathology. 1 Q. Spring. 3 cr. Prerequisite, 21. Fee \$3. A study of the agencies of diseases and decay of trees and structural timbers. Lectures, laboratory and field work. Mr. Graff.

41. Comparative Morphology. 2 Q. Winter and spring. 10 crs.

Prerequisites, 21 and 22. Fee \$3 a quarter. Devoted especially to the study of life histories of typical plants of the larger natural groups. Mr. Kirkwood.

51. Ecology. 1 Q. Autumn. 5 cr. Prerequisites 11, 21 or 25. Fee \$2. The relation of vegetation to soil, climate, etc., and the biological relations of the principal species of given areas. Mr. Kirkwood, Mr. Graff.

61. Systematic Botany. Given in any quarter of the year separately or continuously. Cr. variable. Prerequisite, 11. Fee \$1 a quarter. Classification of the flowering plants, especially of Montana. Field trips in season are a large and important part of the work. Instruction also in the methods of collecting, preserving and mounting plants. Mr. Kirkwood, Mr. Graff.

63. Systematic Dendrology. 1 Q. Spring. 3 cr. Prerequisite, 11. Fee \$1.50 a quarter. A study of the classification and distribution of the principal forest trees of the United States and Canada. Mr. Kirkwood, Mr. Graff.

65. Systematic Mycology. 2 Q. Autumn and winter. 6 cr. Prerequisite, 11. Fee \$3 a quarter. A study of the classification and habits of Fungi and Algae. Lectures, laboratory and field work. Mr. Graff.

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

F1. Forest Botany. 1 Q. Winter. No cr. Fee \$1. Botany of forest plants for short course students in the Ranger School. Mr. Graff.

F2. Range Plants. 1 Q. Winter. No cr. Fee \$1. For short course students in the Ranger School. Mr. Graff.

For Graduates

201. Research. Any quarter. Credits variable. Work on selected problems under direction. Mr. Kirkwood.

BUSINESS ADMINISTRATION

ACTING DIRECTOR, J. H. UNDERWOOD.

The Department of Business Administration gives training in its elementary courses for expert clerical work, and in its advanced courses for executive and administrative positions in industrial and commercial organization and in the public service.

The courses in this field are listed and described under the Department of Economics.

The subjects required of students in Business Administration are as follows:

CURRICULUM

First Year

	First Quarter	Second Quarter	Third Quarter
English	3	3	3
Science	4	4	4
Language	3	3	3
Economic Resources	5	---	---
Economic History	---	5	5
Economics	1	1	1
Drill	1	1	1
Physical Education	1	1	1

Second Year

First Quarter—Accounting, Language, History (European or United States), Elective.

Second Quarter—Accounting, Language, History (European or United States), Elective.

Third Quarter—Commercial Law, Language, History (European or United States), Elective.

Additional courses required before graduation are: Philosophy, Geology and Geography of Montana; Political Science; Journalism (The Newspaper).

Those who do major work in this department are required to have at least forty credits in courses listed under the head of Economics. Only such subjects will be accepted as fulfilling the major requirements as have the approval of the director.

Special attention will be given to preparation for the theoretical part of the Certified Public Accountant examination.

TWO-YEAR COURSES

Montana students who have had practical business experience, and whose circumstances will not permit a full four-year course, may be admitted, with the approval of the Director of Business Administration, to a special two-year curriculum, in which the time of the student is devoted almost exclusively to courses in Business Administration.

The outline for the course is as follows :

First Year

First Quarter—English, Accounting, Money and Banking, Economics.

Second Quarter—English, Accounting, Money and Banking, Economics.

Third Quarter—English, Commercial Law, Money and Banking, Elective.

Second Year

First Quarter—Advanced Accounting, Insurance—Life, Corporation Finance, Elective.

Second Quarter—Advanced Accounting, Insurance—Property, Commerce and Commercial Policy, Elective.

Third Quarter—Advanced Accounting, Public Utilities, Investment, Elective.

Variations from this prescribed course may be made with consent of director.

CHEMISTRY

PROFESSOR, R. H. JESSE, JR. ASSOCIATE PROFESSOR, W. G. BATEMAN. ASSISTANT PROFESSORS, W. N. JONES, J. W. HOWARD.

Those 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.

For Undergraduates

11. General Chemistry. 3 Q. Autumn, winter and spring. Continuous. 12 cr. Fee, \$3 a quarter; breakage deposit, \$2 a quarter. The fundamental laws of chemistry; the properties and relations of the more common elements and of their compounds. Open to all students. Mr. Jesse, Mr. Jones, Mr. Howard, and three assistants.

13. Inorganic Chemistry and Qualitative Analysis. 3 Q. Autumn, winter and spring. Continuous. 15 cr. Fee, \$3 a quarter; breakage deposit, \$2 a quarter. 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. Open only to those who have studied chemistry for one year in high school. Mr. Jones and an assistant.

15a. Qualitative Analysis. 1 Q. Autumn. 5 cr. Fee, \$4; breakage deposit, \$3. The theory of, and the methods for the detection and separation of the principal inorganic basic and acidic ions. Prerequisite, Chemistry 11. Mr. Bateman.

15b. Qualitative Analysis. 1 Q. Winter. 5 cr. Fee, \$4; breakage deposit, \$3. A continuation of course 15a. Prerequisite, Chemistry 13, or 15a. Mr. Bateman.

17. Quantitative Analysis. 1 Q. Autumn; spring. 5 cr. Fee, \$4; breakage deposit, \$3. Introduction to quantitative gravimetric and volumetric methods. Prerequisite, Chemistry 13 or 15a. Mr. Jesse.

18. Fire Assaying. 1 Q. Spring. 3 cr. Fee \$6. Sampling and grinding of ores; fire assay for gold, silver, and lead. Prerequisite, Chemistry 15a. Mr. Jesse.

19. Organic Chemistry. 1 Q. Winter. 5 cr. Fee, \$4; breakage deposit, \$3. Briefer survey of the field of organic chemistry. Intended for students of Pharmacy, Medicine, and Home Economics. Prerequisite, Chemistry 11. Mr. Howard.

For Undergraduates and Graduates

101. The Carbon Compounds. 2 Q. Autumn and winter. Continuous. 10 cr. Fee, \$4 a quarter; breakage deposit, \$3 a quarter. A detailed and systematic study of organic chemistry. Intended for students who elect chemistry as a major. Prerequisites, Chemistry 11. Mr. Jones and Mr. Howard.

102. Organic Qualitative Analysis. 1 Q. Spring. 2 cr. Fee, \$4; breakage deposit, \$3. Systematic methods of identification of pure organic compounds and mixtures; general class reactions of organic chemistry. Prerequisite, Chemistry 101. Mr. Howard.

103. Physiological Chemistry. 1 Q. Spring. 5 or 6 cr. Fee, \$4; breakage deposit, \$3. Chemistry of the human body; blood, bile, urine, feces, milk, etc. Prerequisite, Chemistry 19. Mr. Bateman.

104 Chemistry and Analysis of Foods. 1 Q. Autumn. 3 cr. Fee, \$4; breakage deposit, \$3. Chemical aspects of foods; their manufacture, value, preservation and adulteration; analysis and testing of food stuffs for quality and purity. Prerequisite, Chemistry 17 and 19. Mr. Howard.

105. Textile Chemistry. 1 Q. Spring. 3 cr. Fee, \$4. Microscopic study of textile fibers; chemical analysis of fabrics; dyeing and laundering. Prerequisite, Chemistry 19. Mr. Bateman.

106. Physical Chemistry. 2 Q. Autumn and winter. Continuous. 10 cr. Fee, \$4 a quarter; breakage deposit, \$3 a quarter. The more important methods, results, and problems of theoretical chemistry. Prerequisite, Chemistry 17, 101, college physics. A knowledge of calculus is very desirable. Mr. Jesse.

107. History of Chemical Theories. 2 Q. Autumn and winter. Continuous. 6 cr. Present status and value of chemical theories through an examination of their origin and development. Prerequisites, Chemistry 11, and 101 and a reading knowledge of German. Messrs. Bateman, Jesse, Jones, and Howard.

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

109. Industrial Chemistry. 2 Q. Winter and spring. 10 cr. The chemistry of industrial and engineering materials and the discussion of technical chemical processes. Prerequisite, Chemistry 17 and 101. Mr. Howard.

111. Technical Analysis. 1 Q. Autumn; winter; spring. 2 to 4 cr. Fee, \$4 a quarter; breakage deposit, \$3 a quarter. Analysis of various materials of commercial importance. The work is varied according to the needs and tastes of the individual. Mr. Jesse.

113. Journal Club. 3 Q. Autumn, winter, and spring. 3 cr. 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. Prerequisite, Chemistry 17, 101, and a reading knowledge of German and French. Messrs. Jesse, Bateman, Jones, and Howard.

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.

The following courses have been given under this group in the past two years:

200a. Nutrition. Chemical and physiological aspects of nutrition and nutritional problems. Mr. Bateman.

200b. Advanced Biochemistry. Mr. Bateman, Mr. Howard.

200c. Organic Research. Mr. Jones.

ECONOMICS

PROFESSORS, LOUIS LEVINE, H. E. SMITH,* J. H. UNDERWOOD (Chairman). INSTRUCTORS, G. A. DENFELD, EVANGELINE ROBINSON.

Those who do major work in this department are required to have a minimum of 45 credits, the distribution to be determined with reference to the needs of the individual student. Minor work is advised in History, Modern Languages and Mathematics. Biology and Psychology are advised as preliminary to studies in Sociology.

For Undergraduates

11. Economic Resources. 1 Q. Autumn. 5 cr. Open to freshmen. Natural resources and economic geography of the United States and other countries. Mr. Levine.

12. Economic History of the United States. 1 Q. Winter. 5 cr. Open to freshmen. The industrial development and financial policies of the United States from the Colonial period to the present time. Mr. Denfeld.

13. Elementary Economics. 1 Q. Spring; summer. 5 cr. Open to freshmen. For students in the business course. Mr. Underwood.

14. Introduction to Economics. 2 Q. Autumn; winter. 6 cr. Not open to freshmen. Mr. Underwood.

21. Elementary Accounting. 2 Q. Autumn and winter. Probably repeated winter and spring. 10 cr. Mr. Smith and Mr. Denfeld.

23. Advanced Accounting and Auditing. 3 Q. Autumn, winter and spring. 9 cr. Prerequisite, Elementary Accounting. Valuation of balance sheet items; cost accounting; auditing. Mr. Denfeld.

25. Commercial Law. 1 Q. Spring. 5 cr.

Principles of contracts, agency, partnership, corporations, negotiable instruments, bailments, sales, mortgages, bankruptcy, copyrights, patents and insurance. Mr. Denfeld.

31. Typewriting. 3 Q. Autumn, winter and spring. Without credit. Miss Robinson.

33. Shorthand. 3 Q. Autumn, winter and spring. 12 cr. Miss Robinson.

The Gregg system of shorthand is taught.

41. Business Organization. 1 Q. Autumn. 3 cr. Open to Juniors and Seniors. Prerequisite, Economics 13 or 14. Organization of modern business enterprise, including legal requirements, privileges, and restrictions. Mr. Denfeld.

43. Business Management. 1 Q. Winter. 3 cr. Open to Juniors and Seniors. Prerequisite, Business Organization. Office methods and scientific management as applied to the office and industrial plants. Mr. Denfeld.

*Resigned.

45. Advertising and Selling. 1 Q. Spring. 3 cr. Open to Juniors and Seniors. Prerequisite, Economics 13 or 14. Financing of advertising campaign and various methods and media of display. Principles of salesmanship, method of analyzing territory and organizing selling forces. Mr. Denfeld.

47. Credits and Collections. 1 Q. Spring. 3 cr. Prerequisite, Economics 13. Open to Juniors and Seniors. Given in alternate years. Not given in 1918-19. Mr. Denfeld.

49. Real Estate. 1 Q. Spring. 3 cr. Prerequisite, Economics 13. Open to Juniors and Seniors. Given in alternate years. Not given in 1918-19. Legal and business problems connected with the sale, purchase and management of real property. The law and practice relating to titles, mortgages and ground rents and the consideration of particular classes of real estate. Mr. Denfeld.

51. Life Insurance. 1 Q. Autumn. 3 cr. Prerequisite, Economics 13 or 14. Alternating with the course in Money, Banking, and Exchange. Given in alternate years. Not given in 1918-19. Theory and practice of life insurance, mortality tables, rates, kinds of policies and companies, finance and premiums. Mr. Smith.

53. Property Insurance. 1 Q. Winter. 3 cr. Prerequisite, Economics 13 or 14. Alternating with the course in Money, Banking and Exchange. Given in alternate years. Not given in 1918-19. Fire, marine and title insurance and corporate suretyship, rates and rate making. Kinds of companies and policies. Mr. Smith.

61. Business for Women. 1 Q. Autumn. Probably repeated in spring. 3 cr. No prerequisite. Open to women only. Mr. Smith.

For Undergraduates and Graduates

101. Money, Banking and Exchange. 3 Q. Autumn, winter and spring. 9 cr. Prerequisite, Economics 13 or 14. Given in alternate years. Given in 1918-19. Theory and history of money and banking; banking methods and legislation affecting banking; domestic and foreign exchange. Mr. Smith.

103. C. P. A. Problems. 3 Q. 3 to 9 cr. Prerequisite, Advanced Accounting and Commercial Law. The study of problems used in C. P. A. examinations in the several states to give preparation for taking the C. P. A. examination. Mr. Smith.

111. Public Finance. 2 Q. Autumn; winter. 6 cr. Prerequisite, Economics 14. Public expenditures, principles and systems of taxation, public credit, and problems of tax administration. Mr. Levine.

113. Current Problems in Public Finance. 1 Q. Spring. 3 cr. Prerequisite, Economics 14 and 111. Mr. Levine.

121. Corporation Finance. 1 Q. Autumn. 5 cr. Prerequisite, Economics 13 or 14. Corporation as a form of business organization primarily with reference to its financial management. Mr. Denfeld.

123. Investment and Speculation. 1 Q. Spring. 3 cr. Alternate years. Not given in 1918-19. Prerequisite, Economics 111 and 121. Gov-

ernment and municipal bonds, railway and industrial securities; institutions through which investment and speculation is carried on. Mr. Levine.

125. The Trust Problem. 1 Q. Winter. 3 cr. Open to Juniors. Alternate years. Not given 1918-19. The growth of industrial combinations; advantages and dangers; methods of control; governmental policies. Mr. Levine.

127. Railroad Problems. 1 Q. Spring. 5 cr. Prerequisite, Economics 13 or 14. Growth of transportation; highways; canals; the development of the railway system of the United States; rate making; regulation by state and interstate commissions. Mr. Denfeld.

129. Public Utilities. 1 Q. Spring. 5 cr. Open to Juniors and Seniors. Given in alternate years. Not given in 1918-19. Prerequisite, Economics 13 or 14. The social significance of quasi-public business; the methods of organization and finance of public service enterprise; practices of rate determination and service regulation. Special attention given to municipal utilities, waterpower and irrigation. Mr. Denfeld.

131. The Labor Problem. 1 Q. Spring. 3 cr. Open to Juniors. The factory system and the growth of a wage-earning class; problems of wages, hours of labor, unemployment, etc.; labor unions and their policies; labor legislation. Mr. Levine.

141. Advanced Economic Theory. 1 Q. Spring. 3 cr. Prerequisite, Economics 14. Alternate years. Given 1917-18. Theories of value and of distribution. Mr. Levine.

151. Commerce and Commercial Policy. 1 Q. Winter. 3 cr. Prerequisite, Economics 11 and 14. The conditions of modern trade with particular reference to the commercial problems of the United States; evolution of commercial organization and policies; mercantilism, free trade, protectionism. Mr. Levine.

153. International Relations. 2 Q. Autumn and winter. 6 cr. 1 Q. Summer. 5 cr. Open to Juniors. Present international situation and its historic background. Evolution of foreign policies and problems of world politics. World organization and international government. Diplomatic relations and problems of the United States. Mr. Levine.

161. Sociology. 2 Q. Autumn; winter. 6 cr. 1 Q. Summer. 5 cr. Open to Juniors. Evolution of social interests and institutions; social control; social policy and progress. Mr. Underwood.

163. Social Theories. 1 Q. Spring. 3 cr. Open to Juniors. Relation of the more important sociological writers to social and political history. Mr. Underwood.

165. Evolution of the Family. 1 Q. Autumn. 3 cr. Open to Sophomores. Mrs. Jameson.

167. Child Welfare. 1 Q. Winter. 3 cr. Open to Sophomores. Mrs. Jameson.

169. Women in Industry. 1 Q. Spring. 3 cr. Open to Sophomores. Mrs. Jameson.

171. Economic Reconstruction. 1 Q. Autumn. 3 cr. Prerequisite,

Economics 14. Application of economic and sociological principles to the proposals of social and industrial betterment. Mr. Underwood.

173. Co-operation and Marketing. 1 Q. Winter. 3 cr. Prerequisite, Economics 14. Analysis of the contemporary movements for the co-operative production and exchange and distribution of goods. Mr. Underwood.

175. Property and Distribution. 1 Q. Spring. 3 cr. Prerequisite, Economics 14. Application of economic principles to the study of the property system; social distribution of wealth. Mr. Underwood.

177. History of Economic Institutions. 2 Q. Autumn and winter. 6 cr. Open to Juniors. Alternate years. Not given in 1919-20. Origins and evolution of the industrial and property systems of England and the United States. Mr. Underwood.

EDUCATION

PROFESSORS, FREEMAN DAUGHTERS, EDWARD O. SISSON (Chairman).
ASSISTANT PROFESSOR, —————. INSTRUCTOR, FRANCES GREENBURG.

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. 6 cr. Open to junior and senior students. Mr. Daughters.

***118. Principles of Education.** 1 Q. Winter, summer. 3 cr. Open to junior and senior students. Mr. Sisson.

***119. Educational Psychology.** 1 Q. Spring, summer. 3 cr. Open to junior and senior students. Mr. —————.

***122. The High School.** 1 Q. Autumn, summer. 5 cr. For senior students. 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 and spring. 6 cr. on Certificate only. Time to be arranged. Prerequisite, twenty-one 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.

***130. School Hygiene.** 1 Q. Winter, summer. 3 crs. For junior, senior and advanced students. 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 or summer. 3 cr. Open to junior and senior students. Prerequisite, 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. _____.

150. Educational Administration. 2 Q. Autumn and winter. 6 cr. Primarily for graduate and advanced students. Mr. Daughters.

154. Pedagogical Seminar. 2 Q. Autumn and winter. 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. Conducted by Messrs. Sisson, Daughters, and F. O. Smith.

158. Educational Sociology. 1 Q. Spring. 3 cr. Open to all junior and senior students. 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.

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

For Graduates.

270. Educational Psychology. 3 Q. Autumn, winter and spring. 9 cr. Open only to graduate and advanced students. Prerequisites, 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. _____.

275. History of Education. Advanced Course. 3 Q. Autumn, winter and spring. 12 cr. Open only to graduate and advanced students. 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. _____.

Special Summer Quarter Courses

S 6. Vocational Education. First Term. 3 cr. M. T. W. Th. F., at 10. Mr. _____.

S 7. The Rural High School. First Term. 3 cr. M. T. W. Th. F., at 9. Mr. _____.

Additional courses for the summer quarter for the year 1919 will be announced in the summer quarter bulletin.

ENGLISH

PROFESSORS, GEORGE R. COFFMAN (CHAIRMAN), FRANCES CORBIN.
ASSISTANT PROFESSORS, HELEN S. HUGHES, HOWARD M. JONES. INSTRUCTOR, ANDERS ORBECK.

Courses in English are designed to meet the needs of two groups of students: those who desire general knowledge of literature or practice in composition, and those who desire to do either major or minor work in English.

For the general student courses 13 or 15, 20, 22ab, 24ab, 127, 140b, 30, are recommended.

(a) Those who do major work in this department are required to take 36 credits in the department, in addition to courses 11abc or 12ab. Courses 13, 23ab are strongly recommended.

(b) Those who did major work in this department prior to 1918-19 are required to take courses 11abc, 13, 23ab, and nine credits from courses 22ab, 125-150.

(c) Students not included in section (b) who desire to secure the teachers' certificate in English are required to elect 36 credits in the department in addition to courses 11abc or 12ab. The following are required: Courses 13, 21, 25, 26, 161a. Course 23ab is strongly recommended.

(d) Those who did major work in this department prior to 1918-19 and who desire to secure the teachers' certificate are required to take the courses outlined in section (b) above, and, in addition, courses 25, 161a.

(e) Those who do minor work in this department are required to take, in addition to courses 11abc or 12ab, course 24a or 24b, and fourteen credits of elective work.

(f) Those who do minor work in this department to secure the teachers' certificate are required to take, in addition to courses 11abc or 12ab, courses 13, 24a or 24b, 25, and eight credits of elective work.

(g) The following courses are open to all sophomores: 15, 20, 22ab, 23ab, 24ab, 26, 132, 140b, 30, 32, 33.

(h) Those who do major work in this department are advised to take two years of French, and in addition, during their junior or senior year, French 17.

Composition.

F. Forestry English. 1 Q. Winter. No cr.

For short-course Forestry students. Practice in writing elementary English.

A. Sub-Freshman English. 1 Q. Autumn. No cr.

For students who have failed to pass entrance examinations in English; and for those whose work is consistently below the standard of Freshman English. Mr. Orbeck.

11a. Freshman English. 1 Q. Autumn; winter. 3 cr. Mr. Coffman, Miss Corbin, Miss Hughes, Mr. Jones, Mr. Orbeck.

11b. Freshman English. 1 Q. Winter; spring. 3 cr. Mr. Coffman, Miss Corbin, Miss Hughes, Mr. Jones, Mr. Orbeck.

11c. Freshman English. 1 Q. Spring. 3 cr. Mr. Coffman, Miss Corbin, Miss Hughes, Mr. Jones, Mr. Orbeck.

English 11abc required of all freshmen. Students showing exceptional ability will be placed in English 12ab, and may fulfill their requirement in two quarters instead of three.

Freshman English is not required from students in the two-year and three-year Pharmacy courses, but such students are required to take the entrance examinations and, if deficient, English A.

12a. Advanced Freshman English. 1 Q. Autumn. 3 cr. Mr. Jones.

12b. Advanced Freshman English. 1 Q. Winter. 3 cr. English 12ab is for especially well prepared students. Mr. Jones.

13. Advanced Composition. 1 Q. Winter. 4 cr. For juniors and seniors. Open to sophomores who do not do major work in the department, with the consent of the instructor. Required of those who do major work in this department and of those who desire the teachers' certificate. Mr. Orbeck.

14. Narrative Writing. 1 Q. Spring. 4 cr. Open to sophomores. An advanced course in composition designed to meet the special needs of students in professional courses. Mr. Jones.

15. Business English. 1 Q. Spring. 4 cr. Open to sophomores. An advanced course in composition designed to meet the special needs of students in professional courses. Mr. Orbeck.

Language and Literature

20. Introduction to Literature. 1 Q. Spring. 4 cr. Open to all students who have completed the required work in Freshman English. Miss Corbin.

21. Historical Survey of English Literature. 1 Q. 5 cr. Not offered 1919-20.

22a. American Literature. 1 Q. Autumn. 4 cr. Open to sophomores. A study of literature in America from the Colonial Period to 1850. Miss Corbin.

22b. American Literature. 1 Q. Winter. 4 cr. Open to sophomores. American literature from 1850 to the present day. Miss Corbin.

23a. Shakespeare. 1 Q. Winter. 5 cr. Open to sophomores. A chronological study of Shakespeare's plays. Some time will be devoted to the staging of plays. Mr. Coffman.

23b. Shakespeare. 1 Q. Spring. 5 cr. See above. Mr. Jones, Mr. Orbeck.

24a. Contemporary Literature. 1 Q. Autumn. 4 cr. For students of sophomore standing or above. Required of Journalism students. A study of the social aspects of significant modern literature. Mr. Jones.

- 24b. Contemporary Literature.** 1 Q. 4 cr. Not offered in 1919-20.
- 25. Problems in Teaching English.** 1 Q. 2 cr. Offered in alternate years. Not offered in 1919-20.
- 26. History of the English Language.** 1 Q. Spring. 2 cr. Open to sophomores. Required of those who do major work in the department and who desire the teachers' certificate. Special consideration of the growth of English speech and the development of modern English grammar. Offered in 1919-20 and in alternate years. Mr. Coffman.
- 125. Elizabethan Drama.** 1 Q. Autumn. 4 cr. Open to juniors and seniors. Mr. Coffman.
- 126. English Drama (1642-1891).** 1 Q. 4 cr. Not offered 1919-20.
- 127. Modern Drama.** 1 Q. Spring. 4 cr. Open to juniors and seniors. A study of representative plays of Ibsen, Hauptmann, Brieux, Shaw, Galsworthy, etc.; the organization of the modern theater; modern theories of staging. Mr. Coffman.
- 129. Non-Dramatic Literature of the English Renaissance.** 1 Q. Winter. 4 cr. Open to juniors and seniors. Mr. Jones.
- 130. Age of Dryden and Pope.** 1 Q. 4 cr. Special consideration of the satire and political aspects of the literature of the time. Not offered in 1919-20.
- 131. Eighteenth Century Literature.** 1 Q. Winter. 4 cr. Open to juniors and seniors. Special consideration of the rise of middle class interests and the development of romanticism. This course alternates with 130. Miss Hughes.
- 132. Chief Romantic Poets. (1798-1832.)** 1 Q. Autumn. 4 cr. Open to sophomores. Miss Corbin.
- 133. Tennyson and Browning.** 1 Q. Winter. 4 cr. Open to juniors and seniors. Miss Corbin.
- 134. Victorian Literature.** 1 Q. Spring. 4 cr. Open to juniors and seniors. 1919-20, special emphasis on prose; 1920-21, special emphasis on poetry. Miss Hughes.
- 140a. English Novel Before the Nineteenth Century.** 1 Q. Winter. 4 cr. Open to juniors and seniors; and sophomores with consent of instructor. Miss Hughes.
- 140b. English Novel of the Nineteenth Century.** 1 Q. Autumn. 4 cr. Open to sophomores. Miss Hughes.
- 150. Studies in Major Poets and Prose Writers.** 1 Q. Spring. 4 cr. Open to juniors and seniors. Subject varies from year to year. For 1919-20, Wordsworth. Miss Hughes.
- 151. Seminar.** 1 Q. Autumn; winter; spring. 3 cr. Individual studies. Open to juniors and seniors with consent of chairman of the department. This course meets the faculty provision permitting honor students of junior and senior standing to register for individual work.
- 152. Dante in English.** 1 Q. 3 cr. Not offered 1919-20.
- 160ab. Old English.** 2 Q. 10 cr. Not offered 1919-20.
- 161a. Chaucer.** 1 Q. Autumn. 4 cr. Required of those who do

major work in this department and who desire the teachers' certificate. Open to juniors and seniors. Intensive reading of the Prologue and a few of the Canterbury Tales; rapid reading of other Tales and of some of Chaucer's early work. Mr. Coffman.

161b. Middle English Literature. 1 Q. 4 cr. Not offered 1919-20.

Public Speaking

ASSISTANT PROFESSOR HOWARD M. JONES IN CHARGE.

30. Vocal Expression. 1 Q. Autumn. 3 cr. Open to freshmen. Pronunciation and the elements of voice training. The interpretation of the printed page. Mr. Jones.

31. Elements of Public Speaking. 1 Q. Spring. 3 cr. Open to sophomores. Platform delivery. Extemporaneous speaking. The composition and delivery of public addresses. Mr. Jones.

32. Debate. 1 Q. Autumn. 4 cr. Open to freshmen, with consent of instructor, and to Law students. The organization and delivery of debate. Much practice debating. Mr. Orbeck.

33. Dramatic Personation. 1 Q. Winter. 3 cr. Prerequisite: English 30, or consent of instructor. Public reading. The staging and presentation of plays. Mr. Jones.

FINE ARTS

ASSISTANT PROFESSOR, F. D. SCHWALM (CHAIRMAN). ASSISTANT,

Those who do major work in this department are required to complete 45 credits.

11. History and Appreciation of Art. 1 Q. Autumn; winter. 4 cr. A general survey of the development of painting, sculpture and architectural from the beginning to the present time. The course is intended to develop the understanding and appreciation of art. Miss _____.

17. Advertising. 1 Q. Autumn; winter. 2 cr. 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 illustrating, mural decoration and painting of the figures. Given every other year. Mr. Schwalm.

21. Elementary Drawing. Study in charcoal of cast and still life; outdoor sketching and work from the model. Given in the summer quarter. Miss _____.

23. Advanced Drawing and Painting. 3 Q. Autumn, winter, spring. 2-3 cr. Prerequisite, courses 21-22. Process and principles of drawing and painting in oils and water color; work from model and outdoor sketching. Given in the summer quarter. Mr. Schwalm.

25. Illustration. 1 Q. 2 cr. Prerequisite, courses 21-22. Students do practical illustrations for books, newspapers and magazines; special attention will be given to pictorial composition and methods of reproduction. Mr. Schwalm.

27. Cartooning. 1 Q. Autumn. 2 cr. Prerequisite, courses 23-24. 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.

30. Teachers' Course. 1 Q. Winter; spring. 5 cr. Open to advanced students only. 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. Miss _____.

31. Design. 2 Q. Autumn, winter. 2 cr. 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. Given in the summer quarter. Mr. Schwalm.

GEOLOGY

PROFESSOR, J. P. ROWE (on leave). INSTRUCTOR, MR. ROY A. WILSON.

Those who do major work in this department must take Mineralogy 17, Chemistry 11, Zoology 11, General and Systematic Botany one year, Physics 11 and should have at least two year's work in German and one year in French.

For Undergraduates

Geology:

11. General Geology. 3 Q. Autumn, winter and spring. Continuous. 12 cr. Fee \$1.00. Open to all students. Mr. Rowe and Mr. Wilson.

13. Geologic Processes. 1 Q. Autumn. 5 cr. Prerequisite, Geology 11. Mr. Rowe and Mr. Wilson.

14. Historical Geology. 2 Q. Winter and spring. 10 cr. Prerequisite, Geology 13. Mr. Rowe and Mr. Wilson.

15. Physiography. 1 Q. Winter; summer. 3 cr. Open to all students. Mr. Rowe and Mr. Wilson.

16. Geography and Geology of Montana. 1 Q. Repeated each quarter. 3 cr. Open to all students. Mr. Rowe.

18. Invertebrate Paleontology. 2 Q. Winter and spring. 10 cr. Prerequisite, Invertebrate Zoology and Geology 11. Mr. Wilson.

Mineralogy and Economic Geology:

Those who do major work in Mineralogy or Economic Geology should take Mathematics 11, 12, 13, 16, and Chemistry 13, 15, 17, together with two years of German and one year of French.

17. Physical Mineralogy. 1 Q. Repeated each quarter. 5 cr. Prerequisite, General Chemistry. Mr. Rowe and Mr. Wilson.

20. Advanced Mineralogy. 1 Q. Winter. Cr. to be arranged. Prerequisite, Mineralogy 17. Mr. Wilson.

21. Petrology. 1 Q. Autumn. 3 cr. Mr. Rowe and Mr. Wilson.

22. Blowpipe Analysis. 1 Q. Winter. 3 cr. Prerequisite, Mineralogy 17. Mr. Rowe and Mr. Wilson.

24. Economic Geology. 1 Q. Spring. 3 cr. Prerequisite, Geology 11 and Mineralogy 17. Mr. Rowe.

For Undergraduates and Graduates

128. History of Geology. 1 Q. Spring. 3 cr. Mr. Rowe.

130. Genesis of Ore Deposits. 1 Q. Autumn; winter. 4 to 6 cr. Mr. Rowe.

For Graduates

202. Research. Individual work upon selected subjects.

HISTORY AND POLITICAL SCIENCE

PROFESSOR, PAUL C. PHILLIPS. ASSISTANT PROFESSOR, H. A. TREXLER. INSTRUCTOR, JOSEPH WARD SWAIN (on leave).

Those who do major work in History and Political Science are required to take 45 credits in the Department and the introductory course to General Economics. They should also get, as early as possible, a reading knowledge of French. Majors in the Department may specialize in either American History, European History, or Political Science but they are urged to seek a broad knowledge in the whole field of History and Politics.

Courses 11, 12, 13 are open to all first year students. Course 21 is open to second year students without further prerequisites. Students in Business Administration and Modern Languages who elect History generally elect the course in European History, while majors in the Department of English and Pre-Legal students ordinarily find it preferable to elect the course in English History.

S 8. General History. 1 Q. Summer. Entrance credit. A survey of European history from the earliest times to the present day. Intended for candidates for state certificates. Mr. Trexler.

S 10. Elementary American History. 1 Q. Summer. 2½ cr. Open only to freshmen and sophomores who have no entrance credit in American history. Intended primarily for grade teachers. Mr. Phillips.

11a. Modern Europe. (1400-1789.) 1 Q. Winter. 5 cr. Open to all students. A general course on the history of Europe from the period of the Renaissance to the French Revolution. Mr. Trexler.

11b. Modern Europe. (1789-1920.) 1 Q. Spring. 5 cr. Open to all students. A course covering the period of French Revolution and the Nineteenth Century. Mr. Trexler.

S 11b. Historical Background of the Great War. ½Q. Summer. 2½ cr. A study of the recent developments in Europe that explain the origin of the Great War. Mr. Phillips.

12. Mediaeval History. 1 Q. Autumn; summer. 5 cr. Open to all students. An outline of the beginnings of modern states, and a study of feudalism, the Church, and other mediaeval institutions. Mr. Trexler.

13a. English History to 1688. 1 Q. Autumn. 5 cr. Open to all students. This course treats principally of the development of English institution, social, political and legal. Mr. Phillips.

13b. The British Empire. (1688-1920.) 1 Q. Winter. 5 cr. Open to all students. Mr. Phillips.

14. The American Colonies. 1 Q. Spring; summer. 3 cr. Open to all students. A study of French, Spanish, and English colonization in America and the development of those institutions that form a part of United States history.

15. Greek History. 1 Q. Autumn. 3 cr. Prerequisite, sophomore standing. Mr. Trexler.

16. Roman History. 1 Q. Winter. 3 cr. Prerequisite, sophomore standing. Mr. Trexler.

21a. United States History. (1783-1850.) 1 Q. Autumn. 3 cr. Prerequisite, sophomore standing. Mr. Phillips.

21b. United States History (1850-1896). 1 Q. Winter. 3 cr. Prerequisite, sophomore standing. Mr. Phillips.

21c. Contemporary United States. (1896-1920.) 1 Q. Spring. 3 cr. Prerequisite, sophomore standing. A study of recent social and political movements. Mr. Phillips.

22. Montana History and Government. 1 Q. Spring. 3 cr. Open to all students. Mr. Phillips.

23. The Teaching of History. 1 Q. Spring; summer. 2 cr. Mr. Phillips.

25. Modern France. 1 Q. Spring. 3 cr. Prerequisite, History 11b and 11c. A study of France during the 19th century with a preliminary survey of the 17th and 18th centuries. Mr. Trexler.

101. Studies in Montana History. 1 Q. Spring. 2 cr. Prerequisite, History 21. A study of the exploration, colonization and development of the Rocky Mountain and Pacific Coast states. Mr. Trexler.

102. History of the Far West. 1 Q. Winter. 3 cr. Mr. Phillips.

104. Seminar in American History. (Credit to be arranged.) Open to qualified seniors and graduates. Mr. Phillips.

106. Materials of History. 1 Q. Autumn. 2 cr. Prerequisite, senior standing. Mr. Trexler.

107. Historical Method. 1 Q. Winter. 2 cr. Mr. Trexler.

Courses in Political Science.

S 2. Elementary Government. $\frac{1}{2}$ Q. Summer. For entrance credit. Designed primarily for grade teachers. Mr. Trexler.

17. American Government. 1 Q. Autumn. 3 cr. Prerequisite, 9 credits of history. Mr. Phillips.

18. State and Local Government. 1 Q. 3 cr. Omitted in 1919-20. Mr. Phillips.

19. Elements of Political Science. 1 Q. Autumn. 3 cr. Prerequisite, 9 credits in history. Mr. Trexler.

20. European Governments. 1 Q. Winter. 3 cr. Prerequisite, 9 credits of history. Mr. Trexler.

50. International Public Law. 1 Q. Winter. 3 cr. Prerequisite, 9 credits of Modern History. Mr. Phillips.

53. International Relations. Given by Mr. Levine in the Department of Economics.

HOME ECONOMICS

PROFESSOR, EMELINE S. WHITCOMB (chairman). INSTRUCTORS, ELLA WOOD, EDITH G. VAN DEUSEN, IRENE TEAGARDEN.

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. The latter may elect courses 11, 11a, 13abc, 12, 19, 122a, 123, 24, 32ab, 36.

Curriculum for training teachers of Home Economics for the secondary and normal schools and colleges:

CURRICULUM

FIRST YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
General Chemistry (11).....	4	4	4
or			
Inorganic Chemistry and Qualitative Analysis (13).....	5	5	5
Freshman English (11abc).....	3	3	3
History and Appreciation of Art (11).....	4	---	---
College Education (10).....	1	---	---
Survey of Home Economics			
Physical Education (11).....	1	1	1
Home Economics (12).....	---	3	3
Home Economics (13ab).....	---	3	3
Home Economics			
Modern Language	3	3	3

SECOND YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Physiology of the Human Body (24).....	4	---	---
Modern Language	3	3	3
General Psychology	5	5	5
Household Physics	4	---	---
Physical Education	1	1	1
Home Economics (21).....	---	3	---
Organic Chemistry (19).....	---	5	---
Physiological Chemistry (103).....	---	---	5
Textile Chemistry (105).....	---	---	3
English (20)	---	---	4

THIRD YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Economics or History.....	5	5	---
English (24a).....	4	---	---
English (127)	---	---	4
General Bacteriology (19).....	4	---	---
Home Economics (117).....	3-5	---	---
Home Economics (19).....	---	---	5
Home Economics (127).....	---	---	4-5
Home Economics (122).....	---	4-5	---
Education (118)	---	3	---
Home Economics (120).....	---	4	---
Education (119)	---	---	3

FOURTH YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Sociology (161)	3	3	---
Education (122)	5	---	---
Home Economics (123).....	4	---	---
Education (130)	---	3	---
Education (126)	---	3	3
Home Economics (24).....	---	---	5
Home Economics (128).....	---	2	2
Home Economics (29).....	---	---	2
Home Economics (32ab).....	1	---	2
Home Economics (237).....	---	---	4
Education (114)	3	---	---
Electives	3	---	---

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
Economics (14)	5	5	---
English (24a)	4	---	---
English (127)	---	---	4
General Bacteriology (19).....	4	---	---
Protozoology (16)	---	4	---
Home Economics (19).....	---	---	5
Home Economics (122).....	---	4-5	---
Home Economics (117).....	3-5	---	---
Home Economics (36).....	---	---	2
Economics (173)	---	3	---
Economics (25)	---	---	5

FOURTH YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Economics (161)	3	3	---
Home Economics (123).....	4	---	---
Home Economics (24).....	5	---	---
Home Economics (133ab).....	---	5	5
Home Economics (137).....	---	---	4
Home Economics (35).....	---	5	---
Electives	---	---	3

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

Foods

13ab. Foods. 2 Q. Winter; spring. Continuous. 6 cr. Fee \$7.00. Open to all students. 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. Fee \$7.00. Open to all students. A study of the principles of preservation, including home and commercial methods, applied to all perishable goods.

21. Foods. 1 Q. Winter. 3 cr. Fee \$7.00. Prerequisites, Chem-

istry 11, Household Physics, Foods 13 abc. Special food problems are assigned for individual investigation.

122. Dietetics. 1 Q. Winter; summer. 4 to 5 cr. Fee \$7.00. Prerequisites, Foods 13abc, 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.

122a. Dietetics. Open to all students except those who do major work in this department.

123. Health Education. 1 Q. Summer; autumn. 4 cr. Fee \$7.00. Prerequisite, Dietetics. Includes symptoms of disease, prophylaxis, first aid, nursing and feeding of the sick in the home. Mr. Schreiber, Miss Whitcomb, Miss Gittings.

26. Food Seminar for High School Teachers. Summer (first term). 3 cr. Fee \$3.00. 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.

29. Foods Demonstration. 1 Q. Spring. 2 cr. Fee \$5.00. For juniors and seniors. Includes choice of topics, materials and methods of presentation to the public.

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

36. Buying. 1 Q. Spring. 2 cr. Practice in marketing and purchasing of household furnishings and equipment.

237. Nutrition Seminar. 1 Q. Spring. 4 cr. Prerequisites, Home Economics 122-123, Chemistry 103.

Clothing

11. Clothing. 1 Q. Autumn. No credit. Fee \$1.00. 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.

Hand and Machine Sewing in making Undergarments

11a. Clothing. 1 Q. Autumn; winter. 3 cr. Open to all students. No prerequisites. The value of the different textiles and their application to making dresses.

12. Color and Design. 1 Q. Winter. 3 cr. Prerequisite, History and Appreciation of Art 11. Composition and color studied through the use of masterpieces and the application of Art Principles to original designs.

14. Elementary Costume Design. 1 Q. Spring. 3 cr. Prerequisite,

Color and Design 12. Principles of Composition, study of notan and color in their application to patterns for fabrics and house furnishings.

117. Textile Study and Clothing. 1 Q. Spring; summer. 3 to 5 cr. Fee \$2.00. Prerequisite, 105. Comprising a study of fibres, their manufacture and use, physical and chemical tests to aid in selection, adaptation of patterns, cutting, fitting and making of clothing.

120. Advanced Costume Design. 1 Q. Winter. 4 cr. Prerequisite, 117. Design in costume; historic examples; essentials of modern costume, aesthetic and economic; original designs; tissue paper modeling; construction of afternoon and evening dresses.

127. Clothing. 1 Q. Spring. 4 to 5 cr. Prerequisite, 120. The economics of the textiles and clothing industry. Garments constructed under shop conditions.

128. Clothing Demonstration. 1 Q. Summer; spring. 2 cr. Fee \$2.00. Preparation of textile material and clothing for lecture demonstration and exhibit work.

231. Clothing Seminar for High School Teachers. Summer (first term). 3 cr. Fee \$2.00. 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.

32ab. Millinery. 1 Q. Spring; summer (second term). 3 cr. Fee \$2.00. This course will include both design and composition; a study is made of materials, stitches, frames and trimming. Emphasis is laid on the application of art principles to meet individual requirements.

Shelter

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

24. Household Management. 1 Q. Autumn; spring. 5 cr. Prerequisites, Home Economics 19, 122, 123. Aim is to define the profession of homemaking, emphasizing woman as the chief executive officer, financier and educator.

133ab. Institutional Management. 2 Q. Winter; spring. 5 cr. Prerequisites, 19, 122, 123, 24. Includes organization, management and equipment of special types of institutions. Examples, dormitories, hospitals, tea rooms, cafeterias, hotel dining rooms.

LATIN AND GREEK

PROFESSOR W. M. ABER.

Those who do major work in this department must take in Latin courses 11, 13, 14, 15, 16, 17, 18, 19, 12a, 12b, 12c, and the courses in Greek and Roman Life. Eighteen credits in Greek or Modern Language must also be taken.

For a Minor, a student must take at least fifteen credits in this department.

To be recommended as qualified to teach Latin in High Schools, there is required at least the successful completion of Courses 11, 13, 14, 12a, 12b, 12c, or their equivalents.

Latin:

Note—Courses 11, 13, 14, 12a, 12b, 12c are designed especially for first-year work, to give a preliminary grammatical review; but students of exceptionally good preparation and aptitude for the work may take other courses first if circumstances require such a departure from the desirable order of work. Students taking Latin as their major subject should, as far as possible, take the courses in the order presented below; but the courses are open to students in any college year if they are prepared to take the work with profit. The prerequisite for any course, except 20, 21, 22, is the usual four years' Latin work in secondary schools.

11. Cicero. 1 Q. Autumn. 3 cr. De Amicitia. Mr. Aber.

12a. Composition. 1 Q. Autumn. 2 cr. Prose composition with review of grammar. Mr. Aber.

12b. Composition. 1 Q. Winter. 2 cr. Continuation of 12a. Mr. Aber.

12c. Composition. 1 Q. Spring. 2 cr. Continuation of 12b. Mr. Aber.

13. Cicero and Livy. 1 Q. Winter. 3 cr. De Senectute of Cicero. Selections from Livy. Mr. Aber.

14. Livy. 1 Q. Spring. 3 cr. Selections from Livy. Mr. Aber.

15. Horace. 1 Q. Autumn. 3 cr. Selections from Epodes and Odes. Mr. Aber.

16. Catullus and Tacitus. 1 Q. Winter. 3 cr. Selected poems of Catullus. Germania of Tacitus, Chapters 1-XXVIII. Mr. Aber.

17. Tacitus. 1 Q. Spring. 3 cr. Agricola. Mr. Aber.

18. Horace and Juvenal. 1 Q. Autumn. 3 cr. Selections from Epistles and Satires of Horace, and Satires of Juvenal. Mr. Aber.

19. Comedy. 1 Q. Winter. 3 cr. One play each of Plautus and Terence. Mr. Aber.

20. Roman Life. 1 Q. Winter. 3 cr. Open to all students. No knowledge of Latin required. Mr. Aber.

21. First Year Elementary Latin. 3 Q. Autumn, winter and spring. Continuous course. 9 cr. Open to all students. Mr. Aber.

22a. Second Year Elementary Latin. 1 Q. Autumn. 3 cr. Mr. Aber.

22b. Second Year Elementary Latin. 1 Q. Winter. 3 cr. Mr. Aber.

22c. Second Year Elementary Latin. 1 Q. Spring. 3 cr. Mr. Aber.

Greek:

11. Elementary Greek. 1 Q. Autumn. 3 cr. White's First Greek Book. Mr. Aber.

12. Elementary Greek. 1 Q. Winter. 3 cr. Continuation of 11. Mr. Aber.

13. Elementary Greek. 1 Q. Spring. 3 cr. Continuation of 12. Mr. Aber.

14. Second Year Greek. 1 Q. Autumn. 3 cr. Xenophon's Anabasis. Mr. Aber.

15. Second Year Greek. 1 Q. Winter. 3 cr. Anabasis continued. Iliad begun. Mr. Aber.

16. Second Year Greek. 1 Q. Spring. 3 cr. Iliad continued. Mr. Aber.

17. Greek Life. 1 Q. Autumn. 3 cr. Private life of Greeks. Open to all students. No knowledge of Greek required. Mr. Aber.

LIBRARY SCIENCE

INSTRUCTOR, GERTRUDE BUCKHOUS. ASSISTANT, _____.

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 value of the card catalogue, dictionaries, and encyclopedias, Poole's Index and periodical literature, classification, cataloguing, atlases and gazetteers, note-taking, book-binding and care of books, government publications and reference books on English and American literature, history and science. One lecture or recitation a week. One afternoon laboratory work. Miss Buckhous.

The following are required of those who do major work in this department: 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. Prerequisites, 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 and 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. ASSISTANT PROFESSORS, E. A. CAREY,
A. L. MERRILL.

Those who do major work in this department are required to have a minimum of 45 credits. This should include courses 12, 13, 15, 16, 17, and 18. The remaining credits should be selected in consultation with the instructors in charge of the courses which the student proposes to select. Courses 10 and 11 may not be counted as part of the requirement for a major in Mathematics.

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.

10. Intermediate Algebra. 1 Q. 5 cr. 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. Autumn, Mr. Lennes; winter, Mr. Carey.

11. Solid Geometry. 1 Q. 5 cr. Spring Mr. _____; summer, Mr. _____.

12. College Algebra. 1 Q. 5 cr. Prerequisite, course 10 or 1½ 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.) Autumn, Mr. Carey; winter, Mr. _____.

13. Plane Trigonometry. 1 Q. 5 cr. Autumn, Mr. _____; winter, Mr. Lennes; spring, Mr. Carey; summer, Mr. Lennes.

14. Spherical Trigonometry. 1 Q. 5 cr. Winter. Mr. _____.

15. Plane Analytic Geometry. 1 Q. 5 cr. Winter, Mr. Carey; Spring, Mr. Lennes; Summer, Mr. _____.

16. Differential Calculus. 1 Q. 5 cr. Autumn, Mr. Carey.

17. Integral Calculus. 1 Q. 5 cr. Prerequisite, course 16. Winter, Mr. Carey.

18. Advanced Calculus. 1 Q. 5 cr. Prerequisite, course 17. Spring, Mr. Carey.

19. Solid Analytic Geometry. 1 Q. 5 cr. Winter, Mr. _____.

20. Analytic Mechanics. 1 Q. 5 cr. Winter, Mr. Carey.

(This course is not given in 1919.)

21. Analytic Mechanics. 1 Q. Prerequisite, course 21. Spring, Mr. Carey.

(This course is not given in 1919.)

22. Teaching of Secondary Mathematics. 1 Q. 5 cr. Spring, Mr. Lennes; Summer, Mr. Lennes.

23. Forestry Computation. 1 Q. This course carries no University credit. Winter, Mr. Lennes.

24. **Teaching of Arithmetic.** $\frac{1}{2}$ Q. $2\frac{1}{2}$ cr. Summer, first term, Mr. Lennes; repeated second term, Mr. Lennes.
25. **Plane Geometry.** 1 Q. This course carries no University credit. Summer, Mr. Carey.
26. **Elementary Algebra.** 1 Q. This course carries no University credit. Summer, Mr. Carey.
27. **Mathematics of Investments.** 1 Q. 5 cr. Spring, Mr. Lennes.
101. **Ordinary Differential Equations.** 1 Q. 5 cr. Prerequisite, courses 16 and 17. Winter, Mr. ————. (See course 19.)
102. **Partial Differential Equations.** 1 Q. 5 cr. Winter, Mr. Carey. (Not given in 1919.)
103. **Synthetic Projective Geometry.** 1 Q. An elementary course. Autumn, Mr. Lennes.
104. **Theory of Equations.** 1 Q. 5 cr. Winter, Mr. ————. (See course 19.)
105. **Theory of Determinants.** 1 Q. 5 cr. Summer, Mr. Carey.
240. **Function of a Real Variable.** 1 Q. 5 cr. Spring, Mr. Lennes. (Not given in 1919.)
241. **Functions of a Complex Variable.** 1 Q. 5 cr. Autumn, Mr. Carey. (Not given in 1919.)
242. **Functions of a Complex Variable.** 1 Q. Prerequisite, course 241. Winter, Mr. Carey. (Not given in 1919.)
243. **Vector Analysis.** 1 Q. 5 cr. Winter, Mr. Carey. (Not given in 1919.)
245. **Theory of Sets of Points.** 1 Q. 5 cr. Autumn, Mr. Lennes. (Not given in 1919.)

ASTRONOMY

- A11. **Descriptive Astronomy.** 1 Q. 5 cr. Autumn, Mr. ————; Spring, Mr. ————.
- A101. **Celestial Mechanics.** 1 Q. 5 cr. Spring, Mr. ————. (Not given in 1919.)

MILITARY SCIENCE AND TACTICS

PROFESSOR, ALVIN C. GILLEM (Lieutenant Colonel, U. S. A.). AS-SISTANT PROFESSOR, CLARENCE W. THOMAS (First Lieutenant, U. S. A.).

The Reserve Officers' Training Corps unit, State University of Montana, actually became a unit on or about February 19, 1919, on which date an officer detailed from the regular army reported.

Indoor work will be conducted during the winter and inclement weather in the armory. This work will include Theory and Conduct of Fire with gallery work, Sand Table method of teaching Minor Tactics and Organization of the Terrain.

Outdoor drill and field exercises will be conducted during fall and spring terms.

In compliance with faculty requirements concerning military training and on the recommendation of the committee on military drill, the following regulations are authorized.

All resident male students of freshman and sophomore standing shall be required to enroll for and regularly attend classes in military drill offered by the R. O. T. C. 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.

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.

Military Science and Tactics. Autumn, winter and spring. 3 cr. Practical and Theoretical, three hours a week. Physical drill. Infantry drill to include School of Battalion, Combat and Ceremonies; preliminary instructions, position and aiming drills. Gallery practice. Service practice with Enfield rifle. Field Service Regulations. Hygiene, Bayonet Combat, Field Engineering. Colonel Gillem.

MODERN LANGUAGES

PROFESSOR, F. C. SCHEUCH. ASSISTANT PROFESSOR, G. F. LUSSKY.

German

Instruction in German at the State University is suspended until further notice by order of the State Council of Defense.

French

Those who do major work in this department must take the following courses: 11, 13, 15, 19. In addition they are required to take two years of one other modern foreign language and one course in the History of Europe.

11. Elementary French. 3 Q. Autumn, winter, spring. 9 cr. Mr. Lussky.

13. Intermediate French. 3 Q. Autumn, winter, spring. 9 cr. Prerequisite, course 11, or two years of high school French. Mr. Lussky.

15. Advanced French. 3 Q. Autumn, winter, spring. 9 cr. Continuation of course 13. Mr. Lussky.

17. Technical French. 2 or 3 Q. 4 or 6 cr. Prerequisites, courses 11 and 13. For students who have had at least two years of college French and who wish to do French reading in their major subjects. Mr. Lussky.

19-20. Special. 1, 2 or 3 Q. 2, 4 or 6 cr. Prerequisites, courses 11, 13, 15. Arranged for individual requirements. Mr. Lussky.

Spanish

Those who do major work in this department must have taken: One course in History of Europe; two years of one other modern foreign language.

11. Elementary Spanish. 3 Q. Autumn, winter, spring. 9 cr. Mr. Scheuch.

13. Intermediate Spanish. 3 Q. Autumn, winter, spring. 9 cr. Prerequisite, course 11 or two years of high school Spanish. Mr. Scheuch.

15. Advanced Spanish. 3 Q. Autumn, winter, spring. 9 cr. Prerequisites, courses 11, 13 or three years of high school Spanish. Mr. Scheuch.

17. Technical Spanish. 2 or 3 Q. 4 or 6 cr. Prerequisites, courses 11 and 13. For students who have had at least two years of college Spanish and who wish to do Spanish reading in their major subjects. Mr. Scheuch.

19-20. Special. 1, 2 or 3 Q. 2, 4 or 6 cr. Prerequisites, courses 11, 13, 15. Arranged for individual requirements. Mr. Scheuch.

126. Teacher's Course. 1 Q. Winter or spring. 4 cr. Open to advanced students who intend to teach German, French or Spanish.

PHYSICAL EDUCATION

PROFESSOR, WILLIAM E. SCHREIBER. ASSISTANT PROFESSOR, INA E. GITTINGS. INSTRUCTORS, LUCILLE LEYDA, MR. _____.

The Department of Physical Education controls all the physical activities of the University under the following divisions:

1. Division of Inter-Collegiate 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 for 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

The University certificate in Physical Education is granted to University graduates who do major work in this department. This course is for the training of teachers of Physical Education for high schools, city supervisors, playground supervisors and instructors and athletic coaches.

ATHLETICS

All inter-collegiate 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 freshmen. Outdoor work in running and track ath-

letic 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.

13a. 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 positions; elementary dancing; Swedish floor drills and apparatus work; gymnastic games.

13b. Freshman Physical Education. 1 Q. Winter. 1 cr. Required work of all freshman women. Continuation of the indoor work of 12a.

13c. Freshman Physical Education. 1 Q. Spring. 1 cr. Required work of all freshman women. Continuation of the work in 13b. Outdoor work in tennis, track athletics, baseball, hockey, handball and recreative games.

14a. 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 dumb bells, bar bells and clubs. Light apparatus work on buck, horse, parallel bars; gymnastic dancing and gymnastic games.

14b. Sophomore Physical Education. 1 Q. Winter. 1 cr. Required work of all sophomore women. Continuation of the indoor work of 14a.

14c. Sophomore Physical Education. 1 Q. Spring. 1 cr. Required work of all sophomore women. Continuation of indoor work of

14b 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. Open only to juniors and those showing 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

For Men

Inter-collegiate football. Inter-fraternity contests in football, handball, association football and cross country running. Inter-class contests in the same sports.

For Women

Inter-sorority contests in hockey, association football and baseball. Inter-class and inter-college contests in the same sports.

WINTER

For Men

Inter-collegiate basketball and wrestling. Inter-fraternity, inter-class and inter-college contests in basketball, wrestling, boxing, indoor baseball and gymnastics.

For Women

Inter-sorority and inter-class contests in basketball, indoor baseball and gymnastics.

SPRING

For Men

Inter-collegiate baseball and track. Inter-fraternity, inter-class and inter-college contests in track, baseball, tennis, handball.

For Women

Inter-sorority and inter-class contests in track, tennis, handball and baseball.

CURRICULUM OF DEPARTMENT OF PHYSICAL EDUCATION.

FIRST YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
English (11a, 11b, 11c).....	3	3	3
Chemistry (11)	4	4	4
Biology (11)	4	4	4
Elective	4	4	4
Physical Training (11).....	2 (5 hrs)	2 (5 hrs)	2 (5 hrs)
Military Science	1	1	1

SECOND YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Physiology (24)	5	5	....
Psychology (11)	5	5	....
Anatomy (20a, 20b, 20c).....	3	3	3
Elective	3	3	3
Physical Training (12).....	2 (5 hrs)	2 (5 hrs)	2 (5 hrs)
Military Science	1	1	1
Hygiene and Sanitation .....	....	....	5
Public Speaking .....	....	....	3
History of Physical Education (25).....	....	....	1

THIRD YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Histology	4	4*	....
Education (114, 118)	3	3	....
Elective	3	3	3
Anthropometry (31)	2	....	....
First Aid (32).....	2	....	....
Equipment and Management (33).....	2	....	....
Advanced Gymnastics (15a, 15b, 15c).....	1	1	1
Playgrounds (34a, 34b).....	....	2	2
Systems (35) .....	....	1	1
Prescription (36) .....	....	1	....
Educational Psychology .....	....	....	3
Physiology of Exercise (37).....	....	....	2
Kinesiology (38) .....	....	....	4
Laws of Growth and Development (39).....	....	....	1

FOURTH YEAR

Bacteriology (19, 120).....	4	4	....
High School (122)	5	....	....
Observation (126) .....	....	0	0
Health Education (41).....	4	....	....
School Hygiene (130).....	....	3	....
Corrective Gymnastics (41).....	....	2	....
Coaching Methods (43a, 43b, 43c).....	2	2	2
Gymnastic Methods (44a, 44b).....	2	2	....
Gymnastic Dancing (45a, 45b, 45c).....	1	1	1
Massage (46) .....	....	2	....
Elective .....	....	....	3
Pageantry (47) .....	....	....	1
School Gymnastics (48).....	....	....	4
Physical Diagnosis (49).....	....	....	2

* Embryology or Comparative Anatomy may be substituted for Histology in winter quarter.

Those who do major work in this department are expected to take part in intra-mural or inter-collegiate athletics.

The following courses only are open to students other than those in the Teachers Training Course: 15, 31, 32, 34, 41, 43, 48.

PHYSICS

ASSISTANT PROFESSOR, ROBERT N. THOMPSON.

Those students who expect to take physics in their college course, and who have not had Physics and Trigonometry in high school, should take both in their freshman year. Those students who have had such preparation are advised to take Physics 11 and 12 in their freshman year. This advice should be followed by students in taking their pre-medical or pre-engineering course.

Those who do major work in this department should take Calculus and General Chemistry not later than their sophomore year and Differential Equations in their junior year where possible. The minimum requirement is 45 credits in Physics and an additional 15 credit hours in Physics, Astronomy, Chemistry or Mathematics.

For Undergraduates

1. Elementary Physics. 3 Q. 9 cr. Deposit \$1. Fee \$1 a quarter. This course is intended for students who have not had a high school course in physics. Credit will not be given for one quarter without the other two. Mr. Thompson.

2. Household Physics. 1 Q. Autumn. 4 cr. A briefer and modified course in elementary physics for students in Home Economics. Emphasis on mechanics, heat and electricity, as exemplified in and applicable to the modern household. Mr. Thompson.

11a. Mechanics, Molecular Physics and Heat. 1 Q. Autumn. 5 cr. Prerequisite, Trigonometry and Physics 1 or equivalent. Deposit \$1. Fee \$2. A first course in college physics. It comprises about twenty-five fundamental and representative problems in these fields, which experimentally, will yield quantitative results at the hands of the average college student. Mr. Thompson.

11b. Electricity, Sound and Light. 1 Q. Winter. 5 cr. Prerequisite, Physics 11a. Deposit \$1. Fee \$2. This is a continuation of Physics 11a, and with it constitutes an introduction to the experimental methods of college physics. Mr. Thompson.

11c. General Physics. 1 Q. Spring. 5 cr. Prerequisite, Physics 11b. A lecture-demonstration course. In addition to unifying the subject of college physics, it takes up and amplifies those topics that it has been found inadvisable to introduce into the two previous courses. It thus rounds out and completes the introductory survey of college physics. Mr. Thompson.

14. Electrical Measurements. 1 Q. Spring. 5 cr. Prerequisite, Physics 11c. Deposit \$3. A lecture-laboratory course dealing with the theory and practice of electrical measurements and measuring instruments. Mr. Thompson.

21. Physical Optics. 1 Q. Autumn. 3 cr. Prerequisite, Physics 11c and Calculus. Introductory to the mathematical theory of optics.

with especial emphasis on interference, diffraction, dispersion, and polarization. (Not given 1919-20.) Mr. Thompson.

22. Sound. 1 Q. Winter. 5 cr. Prerequisite, Physics 21 and Differential Equations. Introductory to the mathematical theory of sound. The treatment will follow in the main that given in Lamb's Dynamical Theory of Sound. Not given 1919-20. Mr. Thompson.

45. Discharge of Electricity Through Gases. 1 Q. Autumn. 3 cr. Prerequisite, Physics 11c, Calculus. An introductory course. It will include discussion of ionization, recombination of ions, specific velocity, ionic charge, atomic constitution, vacuum tube discharge, electronic constants, electromagnetic mass, etc. Mr. Thompson.

Students having only Physics 11b may register for 2 credits only.

46. Radioactivity. 1 Q. Winter. 2 cr. Prerequisites, Physics 11b. A study of fundamental phenomena of radioactivity; types of radiation, radioactive substances and their transformation, relation to atomic properties, disintegration theory and the role of helium, ionic charge, electronic mass and velocity, secondary radiation, etc. Mr. Thompson.

31-32-33. Junior Laboratory. 3 Q. Autumn. Winter, spring. 2 to 5 cr. Fee \$3. Advanced experimental work in mechanics, heat, sound, light and electricity. Mr. Thompson.

41-43. Senior Laboratory. 3 Q. Autumn, winter, spring. 2 to 5 cr. A continuation of course 33 with emphasis on light and electricity. Not given in 1919-20. Mr. Thompson.

PSYCHOLOGY AND PHILOSOPHY

PROFESSOR, FRANKLIN O. SMITH.

Students who take General Psychology are advised to take General Zoology as a foundation.

Those who do major work in this department must have 50 credits in Psychology, including: General Psychology 10, Experimental Psychology 6, Social Psychology 5, Genetic Psychology 5, Ethics 5. In addition a major student in psychology should acquire some knowledge of mathematics and physics. For those who wish to pursue psychological studies further, a reading knowledge of German and French is essential.

For Undergraduates

11. General Psychology. 2 Q. Autumn and winter. 10 cr. Open to all students who have done one year of work in the University. A prerequisite for all other courses in psychology and for courses in education which are required for the University certificate of qualification to teach. Mr. Smith.

12. Logic. 1 Q. Autumn. 3 cr. Open to all students. Mr. ———.

13. Introduction to Philosophy. 1 Q. Autumn. 3 cr. Open to all students who have done one year of work in the University. Statement of philosophical problems; explanation of terms; purpose and methods of the study of philosophy. History of Greek Philosophy. Mr. ———.

14. History of Modern Philosophy. 1 Q. Winter. 3 cr. A continuation of course 13, but may be taken independently by those who have had courses 11 and 12. Mr. ———.

15. Ethics. 1 Q. Autumn. 3 cr. Open to all students who have done one year of work in the University. Mr. Sisson.

16. Genetic and Comparative Psychology. 1 Q. Autumn. 5 cr. Prerequisite, course 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.

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

18. Psychology of Religion. 1 Q. Spring. Prerequisite, course 11. 4 cr. Mr. Smith.

19. Abnormal Psychology. 1 Q. Spring. 5 cr. Prerequisite, course 11. Mr. Smith.

20. Psychology of Music. 1 Q. Autumn. 3 cr. Prerequisite, Psychology 11. The investigation and measurement of musical ability. Mr. Smith.

21. 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.

22. Psychology and Human Action. 1 Q. Spring. 3 cr. Prerequisite, course 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 employes on a psychological basis. Mr. Smith.

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

24. Introductory Experimental and Physiological Psychology. 1 Q. Autumn. 3 cr. Prerequisite, course 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 physiological conditions. Mr. Smith.

For Graduates and Undergraduates

101. Advanced Experimental Psychology. 1 Q. Winter. 3 cr. Prerequisite, course 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

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 :

Art

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

Commerce and Accounting

Shorthand, Beginning Accounting, Money and Banking, Life Insurance, Property Insurance, Salesmanship and Business Methods.

Economics

Economic Principles.

Education

History of Education, Educational Psychology, Principles of Education, The High School, School Hygiene, School Supervision and Educational Sociology.

English and Literature

Preparatory English Composition, Preparatory English Literature, Freshman English, Survey of English Literature Before the Nineteenth Century, Nineteenth Century Literature.

French

Intermediate French, Advanced French.

Greek

White's First Greek Book, Xenophon: Anabasis, Homer; Iliad, Plato: Apology and Crito.

History

American History, Modern History, Medieval History, History of England and Greater Britain, American Government and Politics, The French Revolution, Studies in American History.

Home Economics

Foods, Household Management.

Latin

Cicero, Livy, Tacitus, Prose Composition, Horace.

Library Science

Reference work, intended for the general reader, and Reference work, intended for library attendants.

Mathematics.

Elementary Algebra, Plane Geometry, Solid Geometry, Trigonometry, College Algebra, Analytic Geometry, Differential Calculus, Integral Calculus, Mechanics, Teaching of Mathematics, Projective Geometry, Functions of Real Variables, Shop Mathematics, Mathematics for Foresters.

Psychology

General Psychology, Social Psychology.

Zoology

Invertebrates, Vertebrates, Photography.

DEPARTMENT OF PUBLIC LECTURES

The following lectures and recitals are now offered by members of the University faculty:

Edward O. Sisson, President:

"What We Teach and Why," "The Role of the Teacher," "Education in Americanism," "Abraham Lincoln and America Character," "The Mind of Democracy," "The Radius of Altruism," "World Order and World Citizenship."

W. G. Bateman, Assistant Professor of Chemistry:

"Pure Food," "Experiences in China," "Modern Opera."

M. G. Buckhous, Librarian:

"Library Methods," "Reference Work and Bibliography."

Ralph D. Casey, Assistant Professor of Journalism:

"The Newspaper Craft," "The Press in Modern Times."

George R. Coffman, Professor of English:

"Educating a Democracy," "Ideals That Are Worth While," "Stevenson and the Spirit of Romance," "Ideals of Democracy as Shown in English and American Literature," "Some Social and Industrial Problems as Reflected in Modern Drama."

Freeman Daughters, Professor of Education:

"The Old Time School Master and His School," "Individual Differences," "The Application of Scientific Principles to Education," "The Educational Outlook."

M. J. Elrod, Professor of Biology:

"Yellowstone National Park (Illustrated), "Glacier National Park" (Illustrated), "An Evening Among Montana's Mountains" (Illustrated), "Whence Comes the Water?" (Illustrated), "The Forests and Wild Flowers of Montana" (Illustrated), "Game Animals, Mammals, Birds, and Fishes and their Haunts" (Illustrated).

R. R. Fenska, Assistant Professor of Forestry:

"Recreation on Our National Forests" (Illustrated).

Joseph Edward Kirkwood, Professor of Botany and Forestry:

"Mexican Plants and People" (Illustrated), "Forest Trees of Montana" (Illustrated), "Arizona—Desert Life of the Southwest" (Illustrated).

N. J. Lemes, Professor of Mathematics:

"Charles Darwin—His Social and Private Life," "Charles Darwin—the Man of Science," "The Wonders of Modern Astronomy" (Illustrated), "The Life of Mark Twain" (Illustrated), "Educating for a Job or a Career."

Paul C. Phillips, Professor of History:

"Government Organization in War Time," "The United States and the Peace Conference," "Early Fur Traders in Montana."

J. P. Rowe, Professor of Geology:

"Montana Before Man and Today" (Illustrated), "Genesis and Geology," "The Earth and Its History or Animals Before Man" (Illustrated), "Glaciers, Mountains and Volcanoes."

Frederick C. Scheuch, Professor of Modern Languages:

"Life in Spain" (Illustrated), "The Past of Spain," "Italy and the War."

DeLoss Smith, Professor of Music:

Music Recitals.

Franklin O. Smith, Professor of Psychology:

"The Mental Survey" and related topics, "The Newer Ideals of Education," "Changing Views of Human Personality." A course of six lectures on the psychology of child development as follows: "The Place of a Scientific Study of the Child in the Philosophy and Practice of Education," "The Child and the Race," "Heredity and Eugenics," "Individual Differences," "Motor Development, Motivation and Mental Growth."

A. L. Stone, Professor of Journalism :

"Getting the News," "The Service of the Wire."

H. A. Trexler, Professor of Economic History :

"Mediaeval Castles and Their Legends" (Illustrated), "Student Life in a German University" (Illustrated), "The Migration of the Nations: The Settlement of the Modern States" (Illustrated).

Joseph Harding Underwood, Professor of History and Economics :

"The Costs of Progress," "The Uses of Wealth."

Lectures Especially Adapted for Commencement Addresses :

George R. Coffman, Professor of English :

"Educating a Democracy," "Ideals That Are Worth While."

Joseph Edward Kirkwood, Professor of Botany and Forestry :

"Science in the High School."

N. J. Lennes, Professor of Mathematics :

"A Job or a Career," "The Pay that We Get."

Franklin O. Smith, Professor of Philosophy :

"The Outcomes of Education," "Problems of the Present," "The Forward View," "Our Educational Pyramid."

Joseph Harding Underwood, Professor of History and Economics :

"Education for the Next Decade."

Mrs. K. W. Jameson, Dean of Women :

On some general topic.

Special Lectures and Addresses

Dean A. L. Stone of the School of Journalism may be obtained for a limited number of addresses before commercial bodies and for special occasions.

Mrs. K. W. Jameson, Dean of Women, may be obtained for special addresses before women's clubs and in high schools.

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 new 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.

Graduate Study

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 student 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 and tuition 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, German, 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 achievement is required of the candidate.

4—The instructor with whom the major work is elected is the candidate's adviser. With his help, the candidate must, within two weeks after the time at which he takes residence, prepare and submit to the Committee on Graduate Work for its approval a program of the courses which he intends to pursue in preparation for the examination.

5—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 Forestry

PROFESSORS, JAMES H. BONNER (Acting Dean), DORR SKEELS (Dean), T. C. SPAULDING. ASSISTANT PROFESSORS, CHARLES FARMER, R. R. FENSKA. INSTRUCTOR, HAROLD H. LANSING.

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, Logging Engineering, Forest Engineering and Scientific Forestry.

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 70 meets fortnightly for the discussion of forestry problems, the consideration of technical and professional papers and the promotion of a social spirit.

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 cooperate with the faculty of the forest school in formulating an educational policy which would meet with the approval of both the lumbermen and Forest Service.

The advisory board of the Montana school consists of the following members: Kenneth Ross, General Manager Lumber Dep't., Anaconda Copper Mining Co., Bonner, Mont.; W. R. Ballard, General Manager, Somers Lumber Co., Somers, Mont.; R. H. Rutledge, Acting District Forester, District 1, U. S. F. S., Missoula, Mont.; E. G. Polleys, Polleys Lumber Co., Missoula, Mont.

Logging Engineering

(Extract from resolution adopted fourth session of the Pacific Logging Congress, Tacoma, Wash., July 25, 26, 27, 1912.)

"The Congress pledges its hearty support and best efforts to the creation of the profession of logging engineering as a distinct branch

of mechanical science; and its co-operation in the endeavor of the different universities to create a department of logging engineering. We believe the timbered states and provinces of the west should make liberal appropriations for the adequate equipment and proper maintenance of logging engineering courses in their universities and for the securing of the highest type of educators for furthering the work.

"And, whereas, the logging and lumber industry is probably the largest single contributor to the support of our higher educational institutions, and such institutions have for a long time supplied special courses for those engaged in other industries; now, therefore,

"Be it Resolved, That the fourth session of the Pacific Logging Congress does hereby petition the state universities of California, Oregon, Washington, Idaho, Montana and British Columbia to provide courses in logging engineering and to grant degrees upon completion of such courses. Your committee suggests that there be appointed a committee of three in each of the various states and provinces asking support for such a chair of logging engineering. This committee is to have full power in each state or province to raise money by donations or otherwise necessary to carry on the campaign, or if advisable to assist directly in the support of such a chair of logging engineering. This committee to co-operate with the faculties of such universities in planning such courses as may be required."

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 Montana Forest School is the opportunity 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 promotion through the succeeding vacations and position after graduation is, 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 the necessary money to pay for his college course.

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, but those preparing for special lines of work or desiring to register for short courses of training only may enter as Special Students.

Students in high school and preparatory schools who plan to enter the Forest School should preferably include elementary Biology, Botany, English, and Mathematics in their training. Students intending to elect the course leading to the degree of forest engineer, should preferably add English, Physics, Chemistry, and Manual Arts and Drawing in their preparation

Special Students

Mature students, who are not high school graduates and who are not candidates for degrees, may be admitted without the usual entrance units, as special students, if they give satisfactory evidence that they are prepared to pursue successfully the special courses desired.

Special students may acquire status as regular students and become candidates for degrees upon complying with the rules applicable to such cases.

Requirements for Graduation

A total of 200 credits is required for graduation with the degree of Bachelor of Science in Forestry. Of these, 192 credits must be earned in school and 8 credits may be earned by approved summer field work and the preparation of a thesis. 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 B.S. in forestry will require twelve quarters of attendance and extends normally over four years, giving the student a four months' vacation each year. It is possible, however, for a student to concentrate on his school work, and by remaining twelve consecutive quarters, to finish in three years. It is not the policy of the School of Forestry to advise such a procedure ex-

cept to men who have had several years' experience of work in the woods. Students will be expected to gain practical experience by working for the Forest Service, lumbering, and logging companies during the vacation period. 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. This will give seven months of the year for work in the various branches of forestry work and in lumber mills on logging operations; thus they will gain experience that will enable them after graduation, to work up to the most responsible positions the profession has to offer.

The courses of training in the School of Forestry are arranged under three branches. The first two years of work as shown in the Schedule of Courses include the fundamental courses in Mathematics, Botany and English, and at the same time enough of the forest subjects to give the student an idea as to what branch of forestry he may want to specialize in during the junior and senior years.

I. Forest Management. Principles governing the administration of forests. Forest treatment, culture and protection. Measurements of growth and yield. Forest finance.

II. Forest Engineering. Adaptation of forest resources to the use of man. Forest surveys, maps, and improvements.

III. Forest Utilization. Use of the forest; forest exploitation; forest products; commercial measurements and values; lumbering, grazing.

DESCRIPTION OF COURSES

Forest Management

11. Introduction to Forestry. 1 Q. Autumn. 2 cr. Required of all freshmen. The course covers the functions and characteristics of forests, the methods of utilization, usefulness and manufacture of the products. The forest regions of the United States are thoroughly covered. Text: Moon and Brown, Elements of Forestry. Mr. Fenska.

12. Economics of Forestry. 1 Q. Spring. 2 cr. Required of all freshmen. A study of forest problems from an economic standpoint, value and benefits of forests, abuse of forest resources, forest requirements of the nation, relation to other industries, forest resources of the nation, economic results of forestry practice. Text: Fernow's Forest Economics. Mr. Fenska.

13. Fire Protection. 1 Q. Winter. 3 cr. Sophomores. 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. Text: Government Publication, Fire Protection in District 1. Mr. Spaulding.

14. Silviculture. 1 Q. Fall. 3 cr. Junior. Definitions, place in forestry. Factors determining site quality. Effect of climate, location

and soil, on the development of trees and forest. Influence of the forest upon the site, climate and waterflow. Assessment of site quality. Development and growth of trees. Mr. Fenska.

14b. Silviculture. 1 Q. Winter. 3 cr. Junior. Forms of forest. Systems of silvicultural treatment. Relation of grazing, public use, timber sales, and timber utilization to the different silvicultural systems. Protection against damage from man, livestock, birds, rodents and climatic damage. Text: Graves' Principles of Handling Woodlands. Mr. Fenska.

14c. Silviculture. 1 Q. Spring. 3 cr. Junior. Forest distribution. Forest types; their influence and characteristics. Methods of reproducing trees and stands. Factors influencing reproduction. Afforestation and reforestation. Effect of man upon the forest. Formation and reproduction of the forest. Choice of species. Seed: characteristics, properties, etc. Natural seeding. Collection of seeds; storage; testing, etc. Methods of direct seeding. Nurseries, nursery practices. Methods of planting. Sprouts and cuttings. Field work. Text: Toumey, Seeding and Planting in the Practice of Forestry. Mr. Fenska.

14d. Silviculture. 1 Q. Fall. 3 cr. Senior. Care of the forest in its development. Influence of method of formation of the forest. Maintenance and improvement of soil and moisture conditions. Number of trees to an acre. Pure and mixed forests. Under planting, weeding, pruning, cleanings and thinnings. Stimulation of growth. Relations of various kinds. Field work. Mr. Fenska.

15a. Forest Policy. 3 Q. Fall. 2 cr. each quarter. Junior. A continued course. An advanced review of forest economics. The subject is handled 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; Kiney, Forest Law in America, and Essentials of American Timber Law; Schenck, Forest Policy. Mr. Spaulding.

15b. Forest Policy. 1 Q. Winter. 2 cr. Junior. A continuation of the previous course. Mr. Spaulding.

15c. Forest Policy. 1 Q. Spring. 3 cr. Junior. A continuation of the previous course. Mr. Spaulding.

16a. Forest Administration. 2 Q. Winter and spring. 3 cr. each quarter. Senior. 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.

16b. Forest Administration. 1 Q. Spring. 3 cr. Senior. A continuation of the previous course. Mr. Spaulding.

17a. Forest Management. 3 Q. Fall. 3 cr. each quarter. Senior. The method of making an inventory of the forest; the collection and tabulation of data, preparation of maps; and other work that is necessary for a detailed report on the forest property before a working plan

can be made; and the normal forest and its relation to the working plan, are studied. Text: Roth, Forest Regulation. Mr. Spaulding.

17b. Forest Management. 1 Q. Winter. 3 cr. Senior. A continuation of the preceding course 20. 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. Text: Chapman, Forest Valuation. Mr. Spaulding.

17c. Forest Management. 1 Q. Spring. 3 cr. Senior. A continuation of the preceding courses 17 and 17b. This course includes determination of management; choice of species, of silvicultural treatment, of rotation and of regulation; preparation of felling, planting, administration and improvement plans. Text: Recknagle, Theory and Practice of Forest Working Plans. Mr. Spaulding.

18. Forest Measurements. 1 Q. Winter. 2 cr. This course deals particularly with the accurate methods of determination of volume for use in scientific work and as the basis for forest management. Construction and use of volume tables and yield tables. Methods of measuring diameter, height and volume growth. Ratio and relation of forest products in different commercial units. Text: "Forest Mensuration" by Graves. One hour lecture and two and a half hours field work per week. Mr. Fenska.

Forest Engineering

41a. Surveying. 3 Q. Autumn. 2 cr. Freshmen. Instruction covers the care, use and adjustments of instruments used in making forest surveys; United States public land survey methods; retracements and the sub-division of sections; traverse board surveys. One hour lecture and five hours field practice per week. Reference: Theory and Practice of Surveying, Vol. 1, Breed & Hosmer. Mr. Lansing.

41b. Surveying. 1 Q. Winter. Prerequisite, 41a. 1 cr. Freshmen. Continuation of 41a. Differential and profile leveling. Computation of yardage. Ranger stations and homestead surveys. One hour lecture, three hour field practice. Mr. Lansing.

41c. Surveying. 1 Q. Spring. Prerequisite, 41a and 41b. 2 cr. Freshmen. Continuation of 41a. Transit and tape surveys. Observations for meridian. Triangulation; surveys for trails and roads. One hour lecture, five hours field practice. Mr. Lansing.

42a. Mapping. 3 Q. Autumn, winter, spring. 2 cr. Freshmen. Elementary map making and lettering; conventional signs for maps as used by forest service. Five hours practice in drawing room per week. Mr. Lansing.

42b. Mapping. 1 Q. Winter. 2 cr. Prerequisite, 42a. Freshmen. Practice in plotting and compiling maps from field notes of ranger station and homestead surveys; plotting profiles and establishing grade. Five hours practice in drawing room per week. Mr. Lansing.

42c. Mapping. 1 Q. Spring. 2 cr. Prerequisite, 42a and 42b. Freshmen. Compiling of maps from notes in the field by the surveying class; computation of areas by planimeter and latitudes and departures; map titles and borders; reproduction methods, blue printing, black printing and photolithography. Five hours practice in the drawing room per week. Mr. Lansing.

43a and 43b. Topographic Surveying. 1 or 2 Q. Autumn and winter. 2 cr. Sophomores. Aneroid and pacing method; the transit and stadia; trigonometric levelling; the plane table and traverse board; Abney level method; a study of field methods of collecting data for the preparation of maps to be used in the planning of logging operations. Five hours field practice per week, supplemented by lectures and recitations. Textbook: Breed & Hosmer's "Higher Surveying." Mr. Farmer.

44a and 44b. Topographic Mapping. 1 or 2 Q. Autumn and winter. 2 cr. Sophomores. Practice in the production of topographic maps from field notes; a study of hachure and contour maps; fire control, soil classification and special use maps; type and stand maps; timber survey maps. Five hours practice in drawing room per week. Reference works: Wilson's "Topographic Surveying," and Forest Service bulletins on "Standard Maps." Mr. Farmer.

44c. Topographic Surveying. 1 Q. Spring. 2 cr. Sophomores. A continuation of Topographic Surveying, dwelling in detail on Abney methods of mapping, with special application to the surveying of timbered regions. Mr. Farmer.

45. Descriptive Geometry. 1 Q. Winter. 2 cr. Junior (Elective). Fundamental problems in point line and plane projection; application of the subject to mineral surveys, building projections, etc. Five hours practice in the drawing room per week. Mr. Bonner.

46. Forest Mapping. 1 Q. Winter. 2 cr. Juniors. A course in map projection dealing in detail with the following projections: Orthographic, Stereographic, Mercators; Rectangular; Simple Conic; Boones and Polyconic and explaining their respective uses in the make-up of forest maps. Mr. Farmer.

47. Logging Railroads. 1 Q. Spring. 2 cr. Juniors. Reconnaissance; preliminary surveys and location; the laying out of logging railroads with the hand level and tape; topography and cross-sectioning; borrow pits; trestles and culverts; structures; the spiral; cost estimates; railroad drafting. Five hours field and drafting room practice and one hour recitation or lecture per week. Reference books used: Searles and Ives "Field Engineering," Raymond's "Railroad Engineering," Nagle's "Field Manual for Railroad Engineers," Searles' "The Railroad Spiral." Mr. Bonner.

48. Highways and Bridges. 1 Q. Autumn. 2 cr. Juniors. Location, drainage and grading of new roads for forest improvement and logging; relocation and improvement of old roads; maintenance; road plans and profiles; volumes and cost estimates. Design and construc-

tion of Forest Service standard bridges; practice in staking out bridges and securing data for design. One hour lecture and five hours field and drafting room practice per week supplemented by inspection trips to highway construction camps. References: Harger & Rooney's "Highway Engineer's Handbook," Forest Service, "Trail and Highway Manual," Ketcham's "Design of Highway Bridges," and Waddell's "DePontibus." Mr. Farmer.

49. Strength of Materials. 1 Q. Autumn. 3 cr. Juniors. 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. Bonner.

50. Stream Measurements. 1 Q. Spring. 2 cr. Juniors. The fundamentals of hydro-mechanics; the measurement of the flow of water in conduits and open channels; weir measurements; gauging stations; current meters; pumps and motors. Text book: Merriman's "Elements of Hydraulics." References: The fifth, sixth and seventh annual reports of the State Engineer on the flow of Montana streams. Mr. Bonner.

51. The Slide Rule. 1 Q. Autumn. 1 cr. Juniors. 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. Graphic Statics. 1 Q. Winter. 2 cr. Juniors. A study of the principles underlying the design of roof and bridge trusses as used in forest improvements; graphic analysis to determine dead load, live load, snow load and wind load stresses. Suspension bridges; lateral systems and portal bracing. Five hours practice in drafting room per week and round table discussions. Mr. Bonner.

53. Improvement Construction. 2 Q. Autumn. 2 cr. Seniors. This course is planned to give the students a final rounding out in the design and construction of various forest and logging improvements, covering in detail the reconnaissance, preliminary and final survey of trails, estimating costs and construction; explaining the use of the trail topography and various Forest Service tables; the design estimating and construction of cabin and ranger stations; special problems in bridge construction. Mr. Farmer.

53a. Improvement Construction. 1 Q. Spring. 2 cr. Seniors. A continuation of the work of the preceding semester. Study of telephone construction, tree lines, pole lines, emergency lines, testing for trouble, estimates, ranger station fences, drift fences, corrals, etc. Mr. Farmer.

54. Forest Engineering. 1 Q. Winter. 2 cr. Seniors. Rope and cable systems, logging improvements; structural materials. Location methods for flumes, chutes, bridges, trails, roads, railways and special conveyors. Piles and pile driving; stream improvement. Lectures, recita-

tions, design work in drafting room and field work in surveying. Mr. Bonner.

Forest Utilization

31. Log Scaling. 1 Q. Autumn. 2 cr. Sophomore. 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. Graves' "Forest Mensuration" is used as a textbook. One hour lecture and two and one-half hours field work per week. Mr. Fenska.

32. Cruising. 1 Q. Spring. 2 cr. Sophomore. Commercial measurements of standing timber, methods 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.

33. Lumbering. 1 Q. Autumn. 3 cr. Junior. History of the lumber industry. Study of saw mill machinery and equipment. Manufacturing methods and mill study. Grading, seasoning and treatment of lumber. Study of Cost of Manufacturing, "mill-run" values, lumber prices, markets and freight rates. Lumber associations and export trade. Mr. Fenska.

34. Wood Utilization. 1 Q. Winter. 3 cr. Junior. Study of the utilization of various woods in the different wood-using industries, their adaptability for specific purposes. Experiments to extend the usefulness and widen the market for western forest products. Three one-hour lectures and occasional field trips. Mr. Spaulding.

35. Forest Products. 1 Q. Spring. 2 cr. Junior. A study of forest products such as naval stores, wood distillation, potash, paper pulp, maple sugar, dye woods, extraction of tannic acid, oils, extracts, etc., from bark, wood and leaves, and other forest "by-products." Two one-hour lectures per week. Mr. Fenska.

36. Wood Technology. 1 Q. Winter. 2 cr. Senior. Identification of the economic woods of the United States by their microscopic characteristics. The school is supplied with an extensive collection of commercial American woods in the form of hand specimens affording the student ample opportunity to become familiar with the appearance of the different woods on the market. Text: "Economic Woods of the United States" by S. J. Record. Two laboratory periods of two and one-half hours each, per week. Mr. Fenska.

37. Logging. 1 Q. Autumn. 4 cr. Senior. Study of the logging methods in different regions of the United States. Falling, bucking, swamping, skidding, loading, unloading devices, storage and transportation of logs. Camp construction and management. Practical work in nearby logging operations. Detailed report following a prepared outline. Three one-hour lectures and one two-hour and a half field trip per week. Mr. Fenska.

38. Logging Engineering. 1 Q. Spring. 3 cr. Senior. 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.

39. Forest Appraisal. 1 Q. Winter. 2 cr. Senior. A study of present commercial forest values. Uses of land and forest. Land values. Land classifications. Timber 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.

40. Shop. 1 Q. Winter. 1 cr. Freshman. A practical course in the use of iron and steel in ordinary shop practice. Use of wood working tools and machinery.

Grazing

22a. Range Management. 1 Q. Fall. 2 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.

22b. Range Management. 1 Q. Winter. 2 cr. Junior or Senior. A continuation of the preceding course. The course covers a study of the types and breeds of livestock found on the National Forests. The theory and practice of breeding animals and the value and use of cross breeding is included. The common diseases and methods of treatment are briefly discussed. Mr. Spaulding.

22c. Range Management. 1 Q. Spring. 2 cr. Junior or Senior. A continuation of the preceding course. The work covers the choice of type and breed of animals, choice of method of breeding practice and 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.

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 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, high-way and bridge construction and grazing.

The work of the Ranger School is carried on in close co-operation with 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, 2 cr.; Lumbering, 2 cr.; Botany and Silviculture, 3 cr.; Grazing, 3 cr.; Seminar of 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, Breeds and Breeding, Diseases, 2 cr.; Physics, 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:

Matriculation, Laboratory and Incidental Fees.....	\$ 10.00
Books and Notebooks.....	10.00
Board and Room, 12 weeks.....	85.00
Forestry Club dues and entertainments.....	5.00
	<hr/>
	\$110.00
Add for drawing instruments if purchased.....	12.50
	<hr/>
	\$122.50

The Ranger School has been held each winter for ten years. It is attended each year by from 30 to 50 short course students, most of whom are forest rangers and forest guards, and by some men who are qualified either by education or practical experience to benefit by short course training.

CURRICULUM IN FORESTRY AND FOREST ENGINEERING

FRESHMAN YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Introduction to Forestry.....	2	---	---
Surveying (41a, 41b, 41c).....	2	1	2
Mapping (42a, 42b, 42c).....	2	2	2
Plane Trigonometry	4	---	---
Botany (General)	4	4	---
Education (10)	1	---	---
Military Drill and Physical Education.....	2	2	2
Spherical Trigonometry	---	3	---
English	---	4	4
Shop Work (wood or iron).....	---	1	---
Economics of Forestry.....	---	---	2
Geology (11)	---	---	5

SOPHOMORE YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Log Scaling (31)	2	---	---
Topographic Surveying (43a, 43b, 43c).....	2	---	2
Topographic Mapping (44a, 44b, 44c).....	2	---	2
Slide Rule (49).....	1	---	---
Mathematics or Spanish*.....	3	3	3
Physics (4)	4	4	---
Military Drill and Physical Education.....	2	2	2
Forest Measurements (21).....	---	2	---
Cruising (32)	---	---	2
Dendrology (63)	---	---	3
Fire Protection (13).....	---	2	---
Forest Improvements	---	3	---
First Aid (27).....	---	---	2
Descriptive Geometry	---	2	---
Business English	---	---	3

* Note—Students electing Mathematics will substitute Business English during the third quarter.

It is the intention to outline above a two year course in General Forestry; students who continue the work are then prepared to specialize in the branch of forestry they may select. Those who wish to specialize in the business side of lumbering will be advised to substitute Economics 13 for Dendrology 63 in the third quarter of the sophomore year. Beginning with the junior year, the student should carefully consider the electives with reference to the specialty he intends to make his life work.

JUNIOR YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Lumbering (33)	3	---	---
Highways and Bridges (48).....	2	---	---
Strength of Materials (49).....	3	---	---
Silviculture (14)	3	---	---
Wood Utilization	---	3	---
Graphic Statics (52).....	---	2	---
Silviculture (15)	---	3	---
Logging Railroads (47).....	---	---	2
Stream Measurements (50).....	---	---	3

ADVISED ELECTIVES JUNIOR YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Forest Policy (18a, 18b, 18c).....	2	2	2
Logging (37)	4	.....	.....
Modern Languages	3	3	3
Plant Physiology (22).....	4	.....	.....
Economics (19) (Accounting).....	.....	5	.....
Forest Pathology (31).....	.....	5	.....
Forest Mapping (46).....	.....	2	.....
Silviculture (16) .....	.....	.....	3
Forest Entomology .....	.....	.....	5
Forest Products (32).....	.....	.....	2

SENIOR YEAR

Forest Management (17a, 17b, 17c).....	3	3	3
Improvement Construction (53a).....	2	.....	.....
Logging (37)	4	.....	.....
Wood Technology (36).....	.....	2	.....
Improved Construction (53b).....	.....	.....	3
Logging Engineering (38).....	.....	.....	3

ADVISED ELECTIVES SENIOR YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Range Management (22).....	2	.....	.....
Silviculture (17)	3	.....	.....
Integral Calculus	4	.....	.....
Irrigation Law	3	.....	.....
Mining Law	3	.....	.....
Advertising and Selling (37).....	5	.....	.....
Forest Administration (19a).....	.....	3	.....
Range Management (22a).....	.....	2	.....
Differential Calculus .....	.....	3	.....
Forest Engineering (54).....	.....	2	.....
Forest Law .....	.....	3	.....
Corporation Finance .....	.....	3	.....
Forest Administration (19b).....	.....	.....	3
Range Management (22b).....	.....	.....	2
Forest Appraisals (39).....	.....	.....	2
Contracts and Specifications (56).....	.....	.....	2
Thesis .....	.....	.....	5
Investment and Speculation.....	.....	.....	3

School of Journalism

PROFESSOR, ARTHUR L. STONE (Dean). ASSISTANT PROFESSOR, RALPH D. CASEY.

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 comprehensive 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.

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, follows:

FRESHMAN YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Elements of Journalism	3	3	3
Practice Laboratory	2	2	2
Freshman English	3	3	3
Modern Language	3	3	3
Advised Science Elective.....	4	4	4
Physical Education	1	1	1
Military Science	1	1	1
Education, 10.....	1	---	---

SOPHOMORE YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Advanced Reporting	3	3	3
Editing	2	2	2
Contemporary Literature	4	4	---
Modern Language	3	3	3
Recent United States History.....	---	---	3
Advanced Economic Theory.....	---	---	3
Physical Education	1	1	1
Military Science	1	1	1

JUNIOR YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
Editorial Writing	3	3	3
History and Principles of Journalism.....	2	2	---
Journalism Laboratory	2	2	2
Modern Drama	---	---	4
The Labor Problem.....	---	---	3
Social Theories	---	---	3
Psychology	5	5	---
Elementary Economics	4	4	---

SENIOR YEAR

	Autumn Quarter Credits	Winter Quarter Credits	Spring Quarter Credits
The Newspaper	3	3	3
Journalism Laboratory .....	..	2	2
Seminar in Journalism	2	2	2
International Relations	3	3	..
Advised Course in Literature.....	..	..	4
Sociology	3	3	..
Short Story	2	..	..
Political Science	3	..	..
Advised Course in Economics.....	..	..	3

Vocational credits, not exceeding eight, will be given for practical work done by students with the approval of the faculty.

DESCRIPTION OF COURSES

First Year

11. Elements of Journalism. 3 Q. Autumn, winter and spring. 9 cr. 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. Mr. Stone. (Given also in the summer quarter.)

13. Practice Laboratory. 3 Q. Autumn, winter and spring. 6 cr. Required of all freshmen who do major work in Journalism. Mr. Stone.

Second Year

15. Advanced Reporting. 3 Q. Autumn, winter and spring. 9 cr. 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. Rewriting. The study of the handling of news in representative newspapers. The Sunday feature. Mr. Casey.

17. Editing. 3 Q. Autumn, winter and spring. 6 cr. Prerequisite, course 11. Editing, copy-reading. Head writing. Studies in newspaper usage. Evaluation of news. Study of the news associations and the transmission of news. Makeup. Mr. Casey.

Third Year

19. Editorial Writing. 3 Q. Autumn, winter and spring. 9 cr. Prerequisite, courses 11 and 15. Preparation and presentation of editorial interpretation and comment. The functions of the editorial page. Mr. Stone.

21. History and Principles of Journalism. 2 Q. Autumn and winter. 4 cr. 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. Casey.

23. Laboratory in Journalism. 3 Q. Autumn, winter and spring. 9 cr. Prerequisite, courses 11 and 15. Practical drill in reporting and editing. Mr. Stone and Mr. Casey.

25. 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.

26. The Sentinel. The editorship of the junior annual carries with it journalism credits, according to the manner in which the work is performed.

29. Seminar in Journalism. 3 Q. Autumn, winter and spring. 6 cr. Prerequisite, courses 11, 13, 15 and 17. Mr. Stone and Mr. Casey.

31. Laboratory in Journalism. 3 Q. Autumn, winter and spring. Prerequisite, course 23. Continuation of course 23. Mr. Stone and Mr. Casey.

Fourth Year

27. The Newspaper. 3 Q. Autumn, winter and spring. 9 cr. Prerequisite, courses 11, 15 and 17. Organization of the newspaper office. Circulation. Advertising. The mechanics of newspaper making. The relation of the various departments. Mr. Stone and Mr. Casey.

ELECTIVE COURSES

33. Short Story. 1 Q. Winter. 2 cr. Open to all upperclassmen and to underclassmen who have permission from the instructor. pictorial composition. Mr. Schwalm.

A17. Illustration. 1 Q. Spring. 2 cr. Prerequisite, Fine Arts department course 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 department course 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 to be arranged. Mr. Stone.

School of Law

PROFESSORS, G. E. CLEARY, WALTER L. POPE, A. N. WHITLOCK (Dean). INSTRUCTOR, LEWIS M. SIMES. LECTURERS, F. R. ANGEVINE, F. C. WEBSTER.

The School of Law was established as a department of the University of Montana in 1911. Prior to that time there had been no School of Law in Montana.

The school 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 more than six thousand volumes, including the Reporter System, Digests and all leading collections of cases, in addition to the State Reports of a number of states and all leading encyclopedias.

ENDOWMENT

A recent gift to the School of Law under the will of Mrs. W. W. Dixon will make possible the endowment of a professorship and also many additions to the library.

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 twenty-one 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.

Advanced standing may be granted to students who present satisfactory credentials for equivalent courses taken in standard schools of law. Also, in special cases, advanced standing may be granted upon examination satisfactory to the law faculty.

GRADUATION AND DEGREES

Regular students who have satisfactorily completed courses in law, equivalent to three full years of professional study, and who have a total of one hundred twenty-seven credits, including all required courses will be granted the degree of Bachelor of Laws (LL.B.). Special students in exceptional cases of distinguished excellence, may, upon com-

pletion of the three years' work, by special vote of the law faculty, be granted a law degree, but in all ordinary cases will be given certificates as to the work done, in lieu of the degree awarded to regular students.

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 two years of the law course toward graduation and the degree of Bachelor of Arts. Those who have thus obtained the degree of Bachelor of Arts, conferred at the end of four years, may receive the degree of Bachelor of Laws at the end of the fifth year on the completion of the third year of the law course. Students desiring to take the combined course leading to both degrees will register as pre-legal students and be assigned to some member of the law faculty as an adviser.

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 a certificate or degree for same, may in the discretion of the supreme court of Montana be admitted to practice in the courts of Montana without further examination.

COURSES OF INSTRUCTION

The course of study extends over a period of three years, and is so arranged as to require a total of one hundred twenty-seven credits. All first year work is required and in addition the courses in Pleading and Practice Court II 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. The list of courses announced for the year 1919-1920 with their credit hours is as follows:

CURRICULUM**FIRST YEAR**

	1st Quarter	2nd Quarter	3rd Quarter
Contracts	3	3	3
Property I. (ends middle 2nd Q.).....	4	2	
Torts (begins middle 2nd Q.).....		2	4
Practice Court I.....	2	2	2
Criminal Law and Procedure.....	3	2	
Debate and Argumentation.....	4		
Agency			4

SECOND AND THIRD YEARS

	1st Quarter	2nd Quarter	3rd Quarter
Pleading and Practice.....	3	3	3
Equity (ends middle 2nd Q.).....	4	2	
Evidence	3	3	3
Irrigation Law		2	3
Wills and Administration.....	1	1	1
Sales (begins middle 2nd Q.).....		2	4
Practice Court II.....	1	1	1
Appellate Practice	2	2	2
Conflict of Laws (ends middle 2nd Q.)	4	2	
Private Corporations	5		
Mining Law		3	2
*Constitutional Law		3	3
**Suretyship and Mortgages.....		3	3
Trusts (begins middle 2nd Q.).....		2	4
Property II.		3	
Public Service Companies.....	2	1	
**Bills and Notes.....		2	2
*Insurance	4		
**Partnership	4		
**Bankruptcy		3	
*Municipal Corporations.....			3
*Persons		3	
**Damages	4		
**Quasi-Contracts		3	

Note—Credits are based upon the number of recitation hours a week, and credits are allowed accordingly, one credit being one hour a week for one quarter. Courses marked ** given school year 1919-20, alternating successive years with courses marked *.

FOURTH QUARTER

In view of the war situation no announcement of courses in Law is made for the fourth or Summer Quarter.

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. Cleary.

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. 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.

Torts. Trespass to the person, to real property and to personal property; excuses for trespass; legal cause; negligence; contributory negligence; duties of landowners; nuisance; hazardous occupations; liability for animals; deceit; slander; libel; privilege; malice; malicious prosecution; interference with business; unfair competition, strikes, boycotts, business combinations. Ames' Cases. Vol. I. (3d Ed.) Smith, Vol II. (2d Ed.) Burdick on Torts.

Agency. 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.

Criminal Law. Sources of criminal law; nature of crimes; analysis of criminal act and criminal intent; causation; conditions of criminal responsibility; justification; excuse; analysis of particular crimes. Emphasis on the Penal Code of Montana is an important feature of this course. Beale's Cases on Criminal Law. Mr. Cleary.

Practice Court I. The argument of questions of law; the use of law books; the preparation of briefs upon legal questions; instruction in the method of trying criminal cases, and the actual trial of criminal cases during the third quarter. No book is used. Mr. Angevine.

Debate and Argumentation. (See College Arts and Sciences, page 68.

Second and Third Years

Pleading and Practice. Two hours a week in pleading and one hour a week in trial practice are offered during each semester for which 3 credits a semester are given. In general the topics covered in the course in pleading are parties, splitting of causes of action, joinder of causes of action, answers, demurrers, replies, various motions, bills of particulars, amendments and aider, construction of pleadings. The following topics

are selected in trial practice: writs, service of writs, appearance, continuance, the jury, right to open and close, opening statement of counsel, judgment on the pleadings, motions of various kinds, instructions, conduct of counsel, special interrogatories, special verdicts, judgment notwithstanding the verdict, arrest of judgment, new trials, trial and findings of the court. There is also given one hour a week throughout the year devoted to laboratory work in the drafting of pleadings. Sutherland's Cases on Code Pleading and Trial Practice, and selected cases.

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. Parts I.-VI. Mr. Cleary.

Bills and Notes. This subject is studied from the standpoint of 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. Cleary.

Evidence. The theory of evidence; rules governing admissibility; the hearsay rule and its exceptions; opinion evidence; the parole 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 water as applied to irrigation, mining, manufacturing, and the generation of power. Special attention will be given to the preparation of water right litigation, and instruction as to the actual trial thereof. Bingham's Cases. Legislative Enactments. Constitutional Provisions.

Wills and Administration. The law of wills, including the making, revocation and interpretation of wills, in the first semester. Probate procedure, in the second semester, with actual practice in probating wills and the administration of estates. Montana Code, and Lectures. Judge Webster.

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. Pope.

Sales. Subject matter at law and equity; relation of possession and payment to title; presumptions as to title; conditions; 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. Cleary.

Practice Court II. 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 empaneled 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 of the various courts 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. The extent of legislative power and the doctrine of the conflict of laws. Domicile and jurisdiction for taxation. The jurisdiction of courts. A consideration of the creation of rights arising from contract and from tort. The law of capacity and other personal rights. The doctrine of conflict of laws as to rights of property, both by transfer inter vivos and by inheritance. The recognition and enforcement of rights; foreign executors and administrators; the nature, obligation and effect of judgments. *Beale's Cases on Conflict of Laws* (3 Vol. Ed.) Mr. Whitlock.

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.* (2 Ed.) Mr. Pope.

Mining Law. Lodes; placers; locators; discovery; location; tunnel sites and blind veins; conditions of retention of claims; sub-surface rights; adverse claims; patents; oil, gas, and other mining leases; ten-

ancies in common and mining partnership; rights of access; rights of subjacent and of 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. (2 Ed.)

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; governmental regulation and control of the public callings. Wyman's Cases on Public Service Companies.

Insurance. Insurable interest; concealment; misrepresentation; warranties; other cases of invalidity of contract; amount of recovery; subrogation; conditions; waiver; estoppel, election and power of agents; assignees and beneficiaries. Wambaugh's Cases on Insurance.

Constitutional Law I. Adopting and amending constitutions; effect of unconstitutional laws; delegation of powers; political and civil rights of individuals; rights of persons accused of crime; an extended examination of the fourteenth amendment. Mr. Pope.

Constitutional Law II. 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. Pope.

Suretyship and Mortgages. Guaranty; defenses of surety; rights of surety against principal or co-surety; subrogation; reimbursements, exoneration, contribution; rights of creditors to securities held by co-surety. Elements of mortgage; title and lien theory; equitable mortgages; conveyances absolute in form; rights and duties of mortgagor and mortgagee; dower and courtesy; limitation on redemption; clogging the equity; assignment of mortgages; marshalling the assets. Ames' Cases on Suretyship. Wyman's Cases on Mortgages. Mr. Pope.

Trusts. Nature and requisites 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; subject matter of a trust; the different kinds of trusts; transfer of the respective interests of trustee and of beneficiary; rights and remedies of the creditors of trustee and of beneficiary; following the trustee res; resignation and removal of the trustee; the duties of the trustee as to the general execution of the trust and as to investment. Ames' Cases on Trusts. (2d Ed.)

Bankruptcy. The respective jurisdictions of the United States and of the several states. Who may be a bankrupt and who may be petitioning creditors. Fraudulent conveyances, preferences, and general assign-

ments. Property passing to the trustee. Proofs of claims, exemptions and discharge. Williston's Cases on Bankruptcy. Mr. Pope.

Municipal Corporations. Nature of municipal corporations; corporate capacity; self-government; creation; annexation, division; dissolution; succession; legislative control; officers and agents; governmental functions; municipal police power; quasi-governmental and commercial functions; local improvements and services, including special assessments; public streets; liability for torts; liability for contract; indebtedness and its constitutional limit; remedies of creditors. Beale's Cases on Municipal Corporations. Mr. Cleary.

Partnership. Formation of a partnership as to third persons; nature of a partnership, including firm titles; powers of partners; rights and remedies of creditors; duties and liabilities of partners inter se; dissolution of partnership; accounting and distribution; limited partnerships. Burdick's Cases on Partnership.

Persons. Parent and child; custody; support; property and earnings; emancipation; damages to parental rights; liability for torts of children. Infants; contracts, conveyances; affirmance, disaffirmance, restoration of benefits; particular contracts and obligations; necessities; torts. Husband and wife; rights of spouses in each other's property; incapacities of wife; antenuptial contracts; torts; separate estate in equity; statutory changes of common law; marriage and divorce. Kales' Cases on Persons. Mr. Pope.

Quasi-Contracts. Recovery upon record; recovery upon statutory, or official, or customary duty; recovery upon doctrine that one person shall not be allowed to enrich himself unjustly at the expense of another; quasi-contracts and true contracts distinguished; benefits conferred voluntarily and involuntarily; relation of quasi-contracts to equity. Woodruff's Cases on Quasi-Contracts. (2d Ed.)

Medicine

The University of Montana has no medical school. Courses offered by the State University prepare 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 conform to the following standards determined by the Council of Medical Education of the American Medical Association:

For admission to the preliminary college year students must have completed a four-year course of at least fourteen 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 committee make about the same list as given for any accredited high school.

The minimum requirements for admission to acceptable medical schools, as determined by the above named committee, in addition to the high school work previously specified, is one year for collegiate work extending through thirty-two weeks and covering 45 credits, which must have been completed by the student before he is eligible for admission. This college work should include courses in physics, chemistry, biology, and preferably German or French. Some medical colleges require a high school course of fifteen units of credit.

Those institutions requiring two years of college study for admission have quite uniform requirements, about as follows: Chemistry, including inorganic, organic and qualitative; physics, covering the work of a year in high school and an additional year in college; general biology, in some cases elementary zoology and vertebrate anatomy, in other cases botany, or a combination of the two, covering the work of a full year; the American Medical Association suggests a second year of biology; the student must have a reading knowledge of a modern language, French or German being generally specified.

Montana State University presents courses in each of the above subjects, giving laboratory work in full amount and with proper facilities,

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

The work of the first two years of a medical course includes the following subjects, varying somewhat in different institutions: Anatomy, histology, embryology, physiology, chemistry (inorganic, organic and physiological), bacteriology, pathology, pharmacology, therapeutics and clinical diagnosis. These subjects should consist largely of laboratory work in well-equipped laboratories.

PRE-MEDICAL COURSE

The pre-medical course is suggested for those who expect to enter the medical profession. The following courses, offered at the State University, cover the subjects specified by the Council of Medical Education of the American Medical Association, and prepare the student for entrance to any medical school requiring two years of college work. For the medical schools requiring a bachelor's degree the work of junior and senior college years are outlined. These institutions make the same demands as others that chemistry, physics, biology, and modern language be taken during the college course. The freshman and sophomore years must be taken, as here outlined, to fill the requirements.

CURRICULUM

FIRST YEAR

Quarter Credits		Quarter Credits	
English, 11.....	9	Zoology, 11.....	12
Chemistry, 11 or 13.....	12 or 15	German or French.....	9 to 12
		Physical Education.....	1

SECOND YEAR

Quarter Credits		Quarter Credits	
Chemistry, 15 and 19.....	12	Physics, 11.....	12 to 15
Zoology or Botany.....	9 to 12	German or French.....	9 to 12
		Physical Education.....	1

However, 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, and modern languages, both French and German are desirable.

School of Music

PROFESSORS, CECIL BURLEIGH, DELOSS SMITH (Dean), JOSEPHINE SWENSON. ASSISTANT PROFESSOR, HARRIET GARDNER. INSTRUCTOR IN PIANO, WILLIAM COBURN. 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 B.A. 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

First Quarter. Applied music, voice, piano or violin. 2 half hours of instruction and not less than 6 hours of practice a week, 2 cr. 31a sight singing and ear training, 3 cr. 17 fundamentals, 2 cr. 11a English, 3 cr. College Education, 1 cr. 11a Elementary French, 3 cr. Physical Education, 1 cr. Total 16 cr.

Second Quarter. Applied music. Continuation of first quarter, 2 cr. 31b sight singing and ear training, 3 cr. 19a Harmony, 2 cr. 11b English, 3 cr. 11b Elementary French, 3 cr. Elective, 2 cr. Physical Education, 1 cr. Total 16 cr.

Third Quarter. Applied music. Continuation of second quarter, 2 cr. 31c sight singing and ear training, 3 cr. 19b Harmony, 2 cr. 11c English, 3 cr. 11c French, 3 cr. Physical Education, 1 cr. Total 14 cr.

Sophomore Year

First Quarter. Applied music. Voice, piano or violin. Two half hours of instruction and not less than six hours practice per week, 2 cr. 33a History of Music, 3 cr. 21a Harmony, 2 cr. 24a English, 5 cr. 11a Modern Language, 3 cr. Physical Education, 1 cr. Total, 16 cr.

Second Quarter. Applied music. Continuation of first quarter, 2 cr. 33b History, 3 cr. 21b Harmony, 2 cr. 24b English, 5 cr. Modern Language, 3 cr. Physical Education, 1 cr. Total, 16 cr.

Third Quarter. Applied music. Continuation of second quarter, 2 cr. Modern Language, 3 cr. 21c Harmony, 2 cr. E. Elementary Physics of Sound, 3 cr. Elective, 5 cr. Physical Education, 1 cr. Total 16 cr.

Junior Year

First Quarter. Applied music. Voice, violin or piano. Two half hours of instruction and not less than six hours of practice a week, 2 cr. 39a Appreciation of Music, 2 cr. 20 Psychology and Music, 3 cr. Modern Language, 3 cr. 23a Counterpoint, 2 cr. Elective, 3 cr. Total, 15 cr.

Second Quarter. Applied music. Continuation of first quarter, 2 cr. 39b Appreciation of Music, 2 cr. 23b Counterpoint, 2 cr. Modern Language, 3 cr. Elective, 6 cr. Total, 15 cr.

Third Quarter. Applied music. Continuation of second quarter, 2 cr. 39c Appreciation of Music, 2 cr. 23c Counterpoint, 2 cr. Modern Language, 3 cr. Elective, 5 cr. Total, 14 cr.

Senior Year

First Quarter. Applied music. Voice, violin or piano. Two half hours of instruction and not less than 6 hours practice per week, 2 cr. 25 Fugue and Canon, 2 cr. Thesis or Recital, 3 cr. Ensemble playing or singing, 2 cr. English or French, 3 cr. Public Speaking, 2 cr. Total, 14 cr.

Second Quarter. Applied music. Continuation of first quarter, 2 cr. 41 Orchestration, 2 cr. Ensemble singing and playing, 2 cr. English or French, 3 cr. Public Speaking, 2 cr. Elective, 3 cr. Total, 14 cr.

Third Quarter. Continuation of second quarter. Total for four years, 180 cr.

Voice students are subject to the following exceptions: First, two years of pianoforte study are required; second, year of pianoforts study is substituted for elective; third, counterpoint and composition are not required.

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.

First Year

First Quarter. 11 voice, 1 cr. 13 piano, 1 cr. 31a sight singing and ear training, 3 cr. 11a English, 3 cr. 17 Fundamentals, 2 cr. Education 10, 1 cr. Elective, 3 cr. Physical Education, 1 cr. Total 15 cr.

Second Quarter. 11 voice, 1 cr. 13 piano, 1 cr. 31b sight singing and ear training, 3 cr. 11b English, 3 cr. 19a Harmony, 2 cr. Elective, 5 cr. Physical Education, 1 cr. Total 16 cr.

Third Quarter. 11 voice, 1 cr. 13 piano, 1 cr. 31c sight singing and ear training, 3 cr. 11c English, 3 cr. 19b Harmony, 2 cr. Elective, 5 cr. Physical Education, 1 cr. Total 16 cr.

Second Year

First Quarter. 11 voice, 1 cr. 13 piano, 1 cr. 37a Methods, 2 cr. 33a History of Music, 3 cr. 21a Harmony, 2 cr. 39a Appreciation of Music, 2 cr. 11 General Psychology, 5 cr. Physical Education, 1 cr. Total 17 cr.

Second Quarter. 11 voice, 1 cr. 13 piano, 1 cr. 33b History of Music, 3 cr. 118 Principles of Education, 3 cr. 37b Methods, 3 cr. Observation, no credit. Physical Education, 1 cr. 21b Harmony, 2 cr. 39b Appreciation of Music, 2 cr. Total, 16 cr.

Third Quarter. 11 voice, 1 cr. 13 piano, 1 cr. Principles of Education, 3 cr. 37c Methods, 3 cr. Observation, no credit. 21c Harmony, 2 cr. 39c Appreciation of Music, 2 cr. Physical Education, 1 cr. Elective, 3 cr. Total 16 cr.

APPLIED MUSIC (VOICE, VIOLIN OR PIANO).

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.

11. **Voice.** Miss Gardner, Mr. Smith.

13. **Piano.** Miss Swenson.

15. **Violin.** Mr. Burleigh.

THEORETICAL SUBJECTS

17. **Fundamentals.** 1 Q. Autumn. 2 cr. Open to all first-year music students. Miss Gardner.

19a. **Harmony.** 1 Q. Winter. 2 cr. Mr. Burleigh.

19b. **Harmony.** 1 Q. Spring. 2 cr. Mr. Burleigh.

21a. **Harmony.** 1 Q. Autumn. 2 cr. Mr. Burleigh.

21b. **Harmony.** 1 Q. Winter. 2 cr. Mr. Burleigh.

21c. **Harmony.** 1 Q. Spring. 2 cr. Mr. Burleigh.

23a. **Counterpoint.** 1 Q. Autumn. 2 cr. Prerequisite, Harmony
21c. Mr. Burleigh.

23b. **Counterpoint.** 1 Q. Winter. 2 cr. Mr. Burleigh.

23c. **Counterpoint.** 1 Q. Spring. 2 cr. Mr. Burleigh.

25. **Fugue and Canon.** 1 Q. Autumn. 2 cr. Mr. Burleigh.

- 27. Orchestration.** 1 Q. Winter. 2 cr. Mr. Burleigh.
- 31a. Sight Singing and Ear Training.** 1 Q. Autumn. 3 cr. Miss Gardner.
- 31b. Sight Singing and Ear Training.** 1 Q. Winter. 3 cr. Miss Gardner.
- 31c. Sight Singing and Ear Training.** 1 Q. Spring. 3 cr. Miss Gardner.

This course is open to all university students.

33a. History of Music. 1 Q. Autumn. 3 cr. Miss Gardner.

33b. History of Music. 1 Q. Winter. 3 cr. Miss Gardner.

34. Melody Writing.

35. Methods. 1 Q. Autumn. 2 cr. Miss Gardner.

37a. Methods. 1 Q. Winter. 3 cr. Miss Gardner.

37b. Methods. 1 Q. Spring. 3 cr. Miss Gardner.

39a. Appreciation of Music. 1 Q. Autumn. 2 cr. Mr. Burleigh.

39b. Appreciation of Music. 1 Q. Winter. 2 cr. Mr. Burleigh.

39c. Appreciation of Music. 1 Q. Spring. 2 cr. Mr. Burleigh.

41. Orchestra. 1 yr. 2 cr. The orchestra is made up of students and musicians from the city. Rehearsals are held weekly and concerts are given at frequent intervals. Mr. Burleigh.

43. University Band. 1 yr. 2 cr. Weekly rehearsals are held in the auditorium.

45. Women's Glee Club. 1 yr. 2 cr. A continuation course. Mr. Smith.

47. Men's Glee Club. 1 yr. A continuation course. Mr. Smith.

49. Choral Society. 1 yr. 2 cr. All students possessing good voices are admitted to the glee clubs and choral society. 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 or voice \$28.00
 One quarter, one lesson a week, piano, violin or voice.....\$15.00

One-hour class lesson; four in each class; three times a week, \$20 a quarter.

An extra fee will be charged for those desiring to take less than one 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.....\$3.00

Each additional hour.....\$2.00

Piano rent must be paid for full quarter.

Sight singing and public school music free to all matriculated students.

A fee of \$5.00 will be charged all others desiring to take this course.

No absence from lessons will be excused. Lessons lost through fault of teacher will be made up. Lessons falling on legal holidays will not be made up.

School of Pharmacy

PROFESSOR, CHARLES E. F. MOLLET (Dean). INSTRUCTOR, CHARLES P. VALENTINE.

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 work of this school has been indorsed by pharmacists of Montana, and has received favorable recognition elsewhere. The school is registered by the department of education of the University of the State of New York, and 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 25. Graduates desiring to compete for this should apply to the Dean not later than June 1.

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.

Students 20 years of age or older may be admitted as specials, provided that they have had at least two years of practical experience in the handling of drugs and medicines and present not less than 8 units of entrance work. Such students are not candidates for degrees and will not be given credit for work done unless they pursue the regular schedule. Application for special registration must be made to the Dean.

DEGREES

1. For the degree of Graduate in Pharmacy (Ph. G.), 96 credits are required. In addition to the work in pharmacy, this must include the following: English, 12 credits; Botany, 3 credits; General and Qualitative Chemistry, 12 credits; Organic Chemistry, 5 credits; Physiology, 4 credits.

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: Hygiene, 3 credits; Quantitative Analysis, 4 credits; Physiological Chemistry, 4 credits; Modern Language, 9 credits; Pharmacy, 9 credits.

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.

Candidates for the degrees of Pharmaceutical Chemist and Bachelor 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.

LOCATION AND EQUIPMENT

The School of Pharmacy is located in Science Hall and is equipped with apparatus and supplies for the instruction of students. It possesses a fairly complete set of text and reference books, including many bound volumes of journals and of the proceedings of the American Pharmaceutical Association. The school receives a number of the best pharmacy magazines and journals published in the United States.

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	Winter Quarter	Spring Quarter
English	3	3	3
Chemistry	4	4	4
Botany	3	---	---
Pharmacy (11 and 12).....	5	5	5
Pharmacy (13)	---	3	3
Education (10)	1	---	---
Physical Education	---	---	---
Military Drill	---	---	---

SECOND YEAR

Bacteriology	4	---	---
Chemistry	---	5	---
Physiology	---	---	4
Pharmacy (21)	4	4	4
Pharmacy (22)	3	3	3
Pharmacy (23)	3	3	3
Pharmacy (24)	1	1	1
Physical Education	---	---	---
Military Drill	---	---	---

THIRD YEAR

Hygiene	3	---	---
Chemistry	---	5	5
Modern Language	3	3	3
Pharmacy	3	3	3
Electives	6	6	6

DESCRIPTION OF COURSES

11. Introductory Pharmacy. 1 Q. 5 or 8 cr. Fee \$2, deposit \$2. A study of pharmaceutical literature, apparatus and processes, including practical laboratory training in the above processes. The course also includes a study of pharmaceutical arithmetic. Lectures and recitations 6; laboratories 1 or 2. Mr. Mollet, Mr. Valentine and assistant.

12. Manufacturing Pharmacy. 2 Q. Winter and spring. 10 cr. Fee \$6, deposit \$4 per quarter. A continuation of course 11, consisting of a detailed study of the galenical preparations included in the United State Pharmacopoeia and National Formulary. The course includes laboratory training in the manufacture of many of these preparations. Lectures and recitations, 3; laboratories, 2. Mr. Valentine and assistant.

13. Pharmacognosy. 2 Q. Winter and spring. Continuous. 6 or 9 cr. Fee \$4 Q. A study of crude vegetable and animal drugs, their sources, identification, constituents, preparations, official names and synonyms. Mr. Mollet and assistant.

21. Materia Medica and Pharmacology. 3 Q. Autumn, winter and spring. Continuous. 13 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 preparation, physical properties and pharmaceutical uses. The course also includes a discussion of the physiological and therapeutic actions of all of the official drugs. Special attention is given to posology and antidotes of the com-

monly used poisons. Lectures and recitations. **Mr. Mollet, Mr. Valentine and assistant.**

22. Drug Analysis. 2 Q. Autumn, winter and spring. 7 cr. Continuous. Fee \$6 per Q., deposit \$2. 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. Valentine and assistant.

23. Dispensing. 3 Q. Spring. 5 cr. Fee \$4 per Q., deposit \$2. 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. Mollet and assistant.

24. Commercial Pharmacy. 3 Q. Autumn, winter and spring. 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.

31. Advanced Analysis. 2 cr. Fee \$3, deposit \$2. Mr. Mollet and assistant.

Two credits a week devoted to the study and analysis of pathological secretions and products of the human body, stomach content and poisons, including microscopical examinations. Elective for three and four year pharmacy students.

The above subjects are listed in proper sequence, according to the printed schedule.

Summer Quarter

A Special Summer Quarter Bulletin will be issued.

The Summer Quarter will be held from June 23 to September 5. The quarter will be divided into two terms. The First Term will begin June 23 and continue for six weeks or until August 1. The Second Term will open August 4 and continue five weeks or until September 5.

Several special courses for teachers and others will be arranged for the First Term; many courses will run through the entire quarter.

PROBLEMS OF PEACE AND RECONSTRUCTION

Special courses are offered relating to the history of and the problems growing out of the Great War. Announcement is made of courses in world politics, economic and social reconstruction, and current events.

COURSES FOR TEACHERS

Many courses are being arranged for teachers and school administrators. Most of the subjects for county and state certificates will be given. In accordance with a recent opinion of Attorney-General Ford, "County Superintendents may designate the University of Montana in which teachers may pursue, study and secure certificates as required by law, and that teachers may select any of the branches of the University for such summer work." State Superintendent May Trumper has approved the following certificate subjects that will be given at the State University this summer: Civics, History of the United States, American Literature, Physical Geography, Elementary Algebra through quadratics, School management, physics, plane geometry, elementary psychology, and the subjects for State and Life diplomas. Certificate Grades earned at the University in these subjects will be accepted in lieu of the regular county or state examination and accredited on the certificate.

REGULAR COLLEGE COURSES

In accordance with the general plan of the quarter system, many regular college courses will be given during the summer. By taking advantage of the summer quarter, regular college students can secure their degree in three instead of four years.

Registration. Students should enroll on June 23. Instruction begins at 8:00 a. m., on the following day, June 24.

Admission. Students who are eighteen years of age or over, may be admitted to any course by securing the approval of the instructor in

charge. Students under eighteen years of age, 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. A maximum of nine quarter credits per term may be carried by a student who devotes his entire time to courses of university grade. Should a greater number of credits be desired, permission must be obtained from the Committee on Admission and Registration. Proper blanks for making out a petition to carry more credits may be had at the registrar's office. One hundred eighty-six quarter credits are required for a B. A. or B. S. degree.

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.

Graduate Work. It is possible for properly qualified students to obtain credit toward a Master's degree for work done at the Summer Session. The department of Major study should be consulted with reference to the general requirements for the Master's degree and the special condition under which graduate work may be taken.

Teacher's Appointment Committee. The University maintains an Appointment Committee for the purpose of assisting teachers to secure desirable positions. The services of this committee are entirely free to students and graduates of the University, and to school officers. Calls are received at all times of the year. The Summer Quarter is a good time for teachers to meet superintendents. Professor Freeman Daughters of the Department of Education is chairman of this committee.

Library. The University Library will be open throughout the Summer Quarter. Full library privileges are extended to Summer Quarter students. The library hours are as follows: Monday, Tuesday, Wednesday and Thursday, 8 a. m. to 5 p. m.; 7 to 9 p. m.; Friday, 8 a. m. to 5 p. m.; Saturday, 9 to 12 a. m.

Recreation. Social and recreational features will be made attractive. There will be receptions, picnics, trout fishing, excursions up the mountains, and to the Bitter Root and other points of interest.

EXPENSES

Registration. A general registration fee of \$10 will be charged except in certain music courses. For persons wishing to enroll in only one of the Physical Education Courses or in Public School Music and in no other work, the regular registration fee of ten dollars will not be required but a special fee of \$5.00 will be charged.

Music Fees. A charge of \$15 is made for two lessons a week during the first term or \$28 for the quarter for each course in Voice, Violin, and Piano; for less than a term's work, \$1.50 per lesson; for Theory and Harmony, \$5 for the quarter; for Public School Music, no fee will

be charged to matriculated students. Fees must be paid upon enrolling or at the office of the Business Manager in University Hall.

Laboratory Fees. Fees to cover the cost of breakage and of materials furnished to students will be required as follows:

Botany—Courses S1 and S3, each, \$1.

Chemistry—Courses 11, 15a, 17 and 19, each, \$4.

Dress—Course S6, \$1.

Foods—Course S3, \$4.

Geology—Course 11, \$1.

Mineralogy—Course 17, \$3.

Physics—Course 12, \$3.

Physiography—Course S1, \$1.

Textiles—Courses S4 and S5, each, \$1.

Board and Room. Owing to the limited capacity of Craig Hall (the Women's Dormitory), the University will undertake to provide rooms for but eighty women students. The facilities for serving meals at Craig Hall are also limited and but one hundred and seventy students, including the eighty who room at Craig Hall, can regularly take their meals there.

The price of room and board at Craig Hall will be \$26.00 and \$28.00 per month. Those who do not room at the Hall but who take their meals there may secure such meals at the rate of \$5.00 per week.

Those who room at Craig Hall furnish their own towels and bed linen.

Students wishing reservation at Craig Hall should write early. A deposit of \$5.00 must accompany each request for reservation. Every room in the Hall is supplied with two single beds and other necessary furniture. Two students will therefore occupy one room. Each student, however, must send in her name and deposit fee in order to be assured of a reservation.

Rooms in private houses may be had from \$10.00 to \$16.00 per month.

The University will offer all possible help to students in securing quarters for the Summer Quarter. If those who cannot be accommodated at Craig Hall will write either direct to proprietors in Missoula or to the University, suitable rooms can undoubtedly be secured.

REFUND OF RAILROAD FARE

In accordance with the provisions of chapter 123 of the session laws of 1917, and under the regulations established by the State Board of Education, the State University is enabled to make the opportunities for study offered during the summer equally accessible to all Montana teachers and students. Each regularly enrolled student who carries satisfactorily six quarter credits or its equivalent, of regular work, for at least four weeks during the summer will be entitled to receive at the close of either term of the quarter, a refund of the amount actually

paid for the round trip fare less \$5.00. The amount of the refund will be based upon the railroad fare over the cheapest route. This refund cannot be made to students coming from other states, or to those who do not secure official railroad receipts for the amounts paid. No refund can be made of any war tax.

LECTURES AND CONCERTS

A course of lectures of general interest to be given at least once a week will be arranged. Musical and dramatic entertainment will also be a feature.

Register of Students 1918-1919

(Includes all students at the State University in actual residence in all schools and colleges.)

Curriculum	Abbreviations	Rank
AS—College of Arts and Sciences		Sp.—Special
For.—School of Forestry		Fr.—Freshman
Jrl.—School of Journalism		So.—Sophomore
Law.—School of Law		Jr.—Junior
Mus.—School of Music		Sr.—Senior
Pharm.—School of Pharmacy		Gr.—Graduate
SQ—Summer Quarter		
Nur.—Nurses Intensive Training Course		
SATC—Students Army Training Corps		
Uncl.—Unclassified		
LR—Limited Registration, students enrolled in not more than two subjects		
TDC—Topographic Drafting Course		

Quarters in Attendance: 1, Autumn Quarter; 2, Winter Quarter; 3, Spring Quarter; 4, Summer Quarter, 1918; 4a, Summer Quarter, first term, 1918; 4b, Summer Quarter, second term, 1918.

Explanatory Note in connection with the College Section of the STUDENTS ARMY TRAINING CORPS:

INS (Induction not started): Students who registered in the University and applied for admission to the Students Army Training Corps but whose applications were rejected for the following reasons: Draft classification, 30; physical disqualifications, 16; withdrawals and unknown reasons, 15; total, 61.

IS (Induction started): Students registered in the University and accepted for membership in the Students Army Training Corps, but where induction into full standing in the SATC was not completed, for the following reasons: Induction discontinued by the War Department, after signing of armistice, before sufficient time had elapsed for completion of induction, 28; deceased before induction completed, 5; total, 33.

All others listed as SATC were regularly inducted into the corps. Total, 290.

Students whose names are marked with an asterisk (*) died during the year.

Credit hours are computed as of April 15, 1919.

Name	Curriculum	Rank and Credit Hours	Quarters in Attendance	Residence
Abbey, Richard P., B.A.	SATC	Gr	1	Redlands, Cal.
University of N. D.	SATC	Gr	1	Anaconda
Abbott, George F. (INS)	SATC	Jr	1	Missoula
Abbott, George H.	AS Econ	Jr 121	3	Missoula
Abel, Ernest E.	SATC	Fr	1	Butterfield, Minn.
Abercrombie, Mrs. Alice	SQ (LR)		4	Red Lodge
Adams, Albert J.	SATC	Fr	1	Hamilton
Adams, Frederick E.	SATC	Fr	1	Hobson
Adams, Wesley H.	SATC, For	Fr 20	1, 2, 3	Sun River
Adderholt, Roy M.	Mus Sp		1, 2	Missoula
Adolphson, Oscar F.	SATC	Fr	1	Stockett
Ahern, Rolland B.	SATC, AS	Fr 26	1, 2, 3	Anaconda
Akin, William F.	SQ (LR)		4a	Missoula
Alexander, Mrs. Genevieve	SQ (LR)		4a	Missoula
Allan, Roy F.	AS	So 82	2, 3	Butte
Allen, Edna	SQ (LR)		4b	Missoula
Allen, Genevieve	SQ		4	Fairview
Allen, Naomi F.	AS	So 89	1, 2, 3	Glendive
Allen, William H.	SATC	Fr	1	Lewistown
Allen, William Mc.	SATC, AS	Fr 26	1, 2, 3	Lolo
Alling, John S.	SATC	Fr	1	Sidney
Allison, Jay H.	SATC, AS	Fr 21	1, 2, 3	Missoula
Anderberg, Theresa	SQ (LR)		4b	Cohagen

Name	Curriculum	Rank and Credit Hours	Quarters in Attendance	Residence
Anderson, Alma C.	AS	So 66	3	Helena
Anderson, Ernest R.	SATC	Fr	1	Missoula
Anderson, Frederick K. (INS)	SATC	Jr	1	Roundup
*Anderson, Ian G. (IS)	SATC	Fr	1	Missoula
Anderson, McKinley T. (INS)	SATC	Fr	1	Boyd
Anderson, Ruth R.	Pharm	Fr	1	Belfry
Anderson, Virginia P.	AS Fine Art	Sr 170	2,3	Twin Falls, Ida.
Anderson, William M.	Law	Jr 114	2,3	Sand Coulee
Angevine, F. R. LL.E., Univ. of Wash.	SQ (LR)		4b	Missoula
Angland, Philip J.	AS	Fr 5	2	Great Falls
Anglemyer, Earl E.	SQ		4	Denton
Armstrong, Grace E.	AS Math	Sr 144	4a, 1, 2, 3	Anaconda
Armstrong, Laura B.	AS	Fr 9	1, 2, 3	Anaconda
Arneson, Joe	AS	So 48	1, 2, 3	Big Timber
Arnold, Ilo Vesta	SQ		4a	Chinook
Arnold, Ruth	SQ Nur		4	Spokane, Wash.
Auerbach, Maria Ther- esia	AS Hist.	Jr 118	1, 2, 3	Great Falls
Austin, John C. (INS)	SATC	Fr	1	Huntington, Ind.
Averill, Miles G. (IS)	SATC	Fr	1	Great Falls
Bailey, Grace W. Ph.B., Hillsdale College M.A., Univ. of Mich.	SQ		4a	Hillsdale, Mich.
Bailey, Mrs. H. T. B.A., LL.B.	SQ (LR)		4b	Missoula
Bailey, John E.	SATC	Fr	1	Laylva
Baird, Hazel M.	AS Eng	Jr 130	4b, 1, 2, 3	Stevensville
Baker, Alfred H.	SQ		4b	Eureka
Baker, Clyde P.	SATC For	So 73	1, 2, 3	Missoula
Baker, Helen Louise	Mus Sp.		2, 3	Missoula
Baker, Randolph A. (INS)	SATC	Fr	1	Somers
Bakkeby, Sylvia M.	AS	Fr 22	1, 2, 3	Anaconda
Bakko, Arne V.	SATC	Fr	1	Belt
Baldwin, Chester L.	AS Chem	Sr 154	4, 1, 2, 3	Missoula
Baldwin, Grace D.	AS	Fr 18	2	Harlem
Ballard, Ralph E. Pharm	SATC	Fr 32	4, 1, 2, 3	Malta
Ballard, Sidney W.	SATC AS	Fr 26	1, 2, 3	Malta
Ballou, Luther B.	SATC	Fr	1	Shelby
Bangert, Harold M.	SATC	Fr	1	Helena
Baptist, Llawella M.	SQ TDC		4a	Missoula
Barnett, Donald R.	AS Econ	Sr 187	2	Missoula
Barnett, Grace T.	AS Mod. Lan.	Jr 103	4, 1, 2, 3	Missoula
Barr, Agnes R.	Mus Sp.		3	Missoula
Barr, Robert C.	SATC For	Fr 10	1, 2	Missoula
Barrows, Howard C. Bus Ad	SATC AS	Jr 120	1, 2	Cleveland, O.
Barto, Margaret	AS	So 81	1, 2, 3	Thompson Falls
Bass, Lawrence E.	SATC	Fr	1	Linton, Ore.
Bassett, Mary E.	SQ		4	Belgrade
Bates, Elaine M.	Jrl	So 71	1, 2, 3	Malta
Bauch, Amelia J.	Uncl (Psych)		1, 2	Missoula
Bawden, Perle	AS	Fr 6	1, 2	Butte
Baxmeyer, Charlotte B. S. Millikin College	AS	Gr	1	Assumption, Ill.
Beam, Leroy (INS)	SATC	Gr	1	Big Timber
Bean, Doris E.	AS	Fr	1	Butte
Beekman, Lydia	SQ Nur		4	Sidney
Beckwith, Alice M.	AS	Sp 47	1, 2, 3	Missoula
Beckwith, Radcliffe	SATC AS	So 58	1, 2, 3	Missoula
Begley, Irene G.	AS	So 49	4, 1, 2, 3	Missoula
Belknap, Edna M.	AS	So 71	1, 2, 3	Polson
Belknap, Jess W.	SATC	So	1	Polson
Eell, William L.	SATC	Fr	1	Sidney
Bellivou, Celena	SQ		4a	Phillipsburg
Bennett, Bessie	SQ Nur		4	Stevensville
Bennett, Mrs. Gladys	AS	So 78	4a, 1, 2, 3	Missoula
Bennitt, Carl R.	SATC	Fr	1	Lewistown

Name	Cur-riculum	Rank and Credit Hours	Quarters in Attendance	Residence
Bennitt, Orris (INS)				
B. S. James Millikin				
LL.B. Cincinnati Law School	SATC	Gr	1	Helena
Benson, Hilda K.	AS	Fr 26	1,2,3	Butte
Benson, Florence	AS Eng.	Sr 196	4,1,2	Tahola, Wn.
Berg, Lawrence R. (INS)	SATC	So	1	Seattle, Wn.
Bernhard, Nina M.	SQ		4a	Kremlin
Best, Elwood H.	For	Sp 9	2,3	Missoula
Bierman, Jessie M.	AS	Fr 26	1,2,3	Kalispell
Bisbee, Roy A.	SATC	Sr	1	Anaconda
Bjorneby, Elliot G.	SATC	Fr	1	Kalispell
Black, Howard B.	Law	Jr 111	2,3	Kalispell
Black, Leah D.	AS Home Ec	Jr 119	2,3	Idaho Falls, Ida.
Blacker, Bertha M.	SQ (LR)		4a	Shelby
Blain, Edith M.	AS	Fr 1	1,3	Armingt'n
Blake, Abbie	SQ		4	Galata
Blakely, Bessie M.	AS (LR)	Fr 1	1,2	Missoula
Blegan, Clifford R.	SATC	Fr	1	Ryegate
Bliss, Norma L.	SATC Jrl.	Fr 27	1,2,3	Wolf Point
Blomgren, Carl H.	SATC	So	1	Butte
Blumenthal, Emil L.	AS	Fr	1	Philipsburg
Boals, Rose	Mus Sp.		3	Arlee
Bolin, Rachel H.	Mus Sp.		3	Missoula
Bombard, Hazel B.	AS	Fr 18	4,1,2,3	Missoula
Bond, Charles H.	SATC	Fr	1	Naples, Ida.
Bonner, Tillie H.	SQ		4a	Miles City
Boorman, Harley G.	SATC	Fr	1	Brady
Booth, Myrna E.	AS Eng.	Sr 166	1,2,3	Missoula
*Bostwick, Virgil W. (IS)	SATC		1	Dillon
Bourdeau, Etha M.	AS	Fr 32	1,2,3	Missoula
Bourdeau, Lea L.	AS	Fr 39	1,2,3	Missoula
Bourquin, J. Justin	Law	So 88	2,3	Butte
Bowan, Herbert	AS	So 71	1,2,3	Worden
Bowman, Wm. J.	SATC	Fr	1	Big Sandy
Boyd, Elma A.	AS	Fr 20	1,2,3	Ovando
Bray, Robert A.	AS	Fr	1	Big Timber
Brazeau, Clyde E.	AS	Sp	2	Ronan
Bright, Mrs. J. S.	Mus Sp.		2	Missoula
Broadland, Thelma	AS	Sp	2,3	Butte
Broadwater, Kathlyn	AS	Fr 20	1,2,3	Havre
Brockway, Ethel E.	AS	Fr 21	1,2,3	Billings
Brome, Alice M.	SQ		4a	Butte
Brook, Douglas A.	SATC	Fr	1	Jefferson Island
Brooks, Edith C.	SQ		4	St. Ignatius
Brown, Ethel	SQ		4	Western, Neb.
Brown, Matthew H.	SATC	Fr	1	Great Falls
Brown, Rose S.	SQ (LR)		4a	Missoula
Brown, Wesley W.	SATC AS	Fr 17	1,2	Browning
Browne, Phyllis L.	AS	Fr 33	4,1,2,3	Missoula
Browning, Elizabeth H.	AS	Fr 20	4,1,2,3	Missoula
Bruce, Irene F.	AS	So 76	1,2,3	Kalispell
Bruneau, Vivian L.	Jrl.	Fr 28	1,2,3	Great Falls
Bryan, Stella	Mus Sp.		2,3	Missoula
Buchanan, Guy O. (IS)	SATC	Fr	1	Rockford, Ill.
Buck, Clarence H. (INS)	SATC	So	1	Stevensville
Buckridge, David W. (INS)	SATC	Fr	1	Hamilton
Buford, Grace	AS	Fr 21	1,2,3	Missoula
Bulen, Leon L. (IS)	SATC	Gr	1	Missoula
LL.B., Univ. of Minn.				
Bunge, Ruth M.	AS (LR)			
Bus Ad.		Sp 7	1,2,3	Missoula
Burfening, Beryl	AS	So 59	1,2,3	Bynum
Burkhart, Alma E.	AS	So 72	1,2,3	Missoula
Burkhart, Ernest W.	Mus Sp.		1	Missoula
Burt, Elva	AS Hist.	Jr 119	1,2,3	Forsyth
Burt, John L.	SATC AS	Jr 120	1,2,3	Forsyth
Bus Ad.				
Butler, Everett F.	SATC For.	Sr 140	1,2,3	Chicago, Ill.
Butler, May	SQ		4a	Helena
Byrne, Catherine E.	AS	So	1	Anaconda
Cunningham, Terence	SQ		4	Alberton

REGISTER OF STUDENTS

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Name	Curriculum	Rank and Credit Hours	Quarters in Attendance	Residence
Calkins, Ivan R.	SATC	Fr	1	Moore
Callahan, Dan E.	SATC	Fr	1	Missoula
Callison, Carolyn	SQ		4	Des Moines, Ia.
Cameron, Lulu	SQ		4a	Dillon
Campbell, Clair	SATC	Fr	1	Anaconda
Campbell, Hugh P.	AS	Sp 118	1,3	Missoula
Campbell, Maude	Pharm	Fr 13	1,2,3	Big Timber
Campbell, Ursula	SQ		4a	Missoula
Campbell, Walter F.	SATC	Fr	1	Danvers
Carey, Fannie	AS	Fr	1	Sheridan
Carl, Mrs. Lotta W.	AS Mod Lan	Jr	1	Billings
Carlson, Clarence E.	SATC	Fr	1	Rockford, Ill.
Carlson, Martin	For	So 90	2,3	Missoula
Carmichael, John	SATC AS	So 82	1,2,3	Missoula
Carnahan, Drusilla	SQ		4a	Hamilton
Carnal, Donald	SATC AS	Fr 13	1,2,3	Harlem
Carney, Grace M.	Nur	So 42	1	Springdale
Carney, Mayme	AS	Fr 30	1,2,3	Waterloo
Carpenter, Mildred	AS Biology	Jr	1	Great Falls
Carroll, Francis T. (INS)	SATC	Fr	1	Dillon
Carson, Clarke J.	SATC	Sr	1	Glenwood, Minn.
Carson, Frances C.	AS	Fr	1	Townsend
Carstensen, Eleanor	AS	Fr	1	Helena
Carter, Mrs. E. J.	SQ		4	Missoula
Carver, Dwight L.	AS	Fr 30	2,3	Florence
Carver, Howard C.	AS	Fr 15	1,2,3	Florence
Cavin, Ruth	AS	So 77	1,2,3	Tacoma, Wash.
Cassel, Chester	SATC	Fr	1	Abilene, Kas.
Castagne, John J. (INS)	SATC	Fr	1	Red Lodge
Caulkins, Clarence	SATC AS	So 58	1	Big Timber
Chainey, Mary M.	Mus Sp		2,3	Coeur d'Alene, Ida.
Chapin, Wilbur E.	SATC	So	1	Lincoln, Neb.
Chester, Elsie M.	AS	Fr 28	2,3	Kalispell
Christensen, Earl	AS	So 61	2,3	Missoula
Christensen, Lillian	AS	Fr 24	1,2,3	Missoula
Chrystal, Martha	SQ Nur		4	Butte
Clague, Marietta	AS	Fr 19	1,2,3	Anaconda
Clark, Archie Leslie	SATC	Fr	1	Butte
Clark, Frances M.	Pharm	Jr 108	1,2,3	Plains
Clark, Gertrude	AS	So 77	1,2,3	Columbus
Clark, Stedman K.	SATC AS	So 63	1,3	Manhattan
Clem, Byron Leo	SATC	Fr	1	Lewistown
Cleary, Geo. F.	SQ (LR)		4b	Missoula
Cline, John W. (IS)	SATC	Fr	1	Poison
Coffee, Eva M., B.S.	Mus	Gr	4,1,2,3	Missoula
Coffman, Mrs. Bertha Ph.D., Univ. of Chicago	AS (LR)	Gr	4,1,2	Missoula
Coleman, Charles B.	For	Sp	1	Missoula
Collins, Elgar H.	SATC	Fr	1	Bonnars Ferry, Ida.
Collins, Fay M.	AS	So 63	1,2,3	Anaconda
Collins, Lowell J. (IS)	SATC	Fr	1	Raymond
Colton, Thomas C.	Law	Sp 13	2,3	Butte
Colville, Leslie L.	For	Sp	2	Missoula
Combo, Helen M.	AS	Fr 28	1,2,3	Butte
Conley, Elsie E.	SQ		4a	Butte
Connell, Geo. D.	SATC	Fr	1	New Brunswick, Can.
Connor, Floyd	SATC	Fr	1	Gold Stone
Connors, John L.	SATC AS	Fr 25	1,2,3	St. Ignatus
Conrad, Earl Othmar	SATC	Fr	1	Great Falls
Cook, Clarence D.	SATC AS			
	Econ	Sr 168	1,2,3	Bonita
Courtney, Wm. F. (INS)	SATC	Fr	1	Missoula
*Crabtree, Edith	Mus Sp		2	Alberton
Craig, Mary A.	SQ		4	Oswego
Cramer, Albert J. (IS)	SATC For	Fr 22	1,2,3	Missoula
Crangle, Mary A.	AS	So 78	1,2,3	Butte
Crary, Cora S.	SQ		4a	Sheridan
Crews, Clinton A.	SATC	So	1	Anaconda
Crossman, Ida	SQ		4a	Missoula
Cruikshank, Margaret	AS (LR)	Sp 13	4,1,2,3	Malta
Crowell, Ralph E.	SATC	Fr	1	Harrison
Cullen, Peter C.				
A. B. Univ. of Neb.	SQ (LR)		4	Missoula

Name	Cur-riculum	Rank and Credit Hours	Quarters in Attendance	Residence
Cummings, Lillian	SQ		4a	Hardin
Cummings, Ruth	AS	So 68	3	Billings
Cundiff, Grace M.	SQ		4a	Sidney
Cunningham, Mrs. May	Mus Sp		4a, 2	Alberton
Dacanay, Placido	For	Jr 116	1, 2, 3	Bacnotan, Union
Dana, Ruth	AS Home Econ	Jr 126	1, 2, 3	Province, P. I.
Danaher, Catherine	SQ		4	Deer Lodge
Darrow, Lyle R.	AS Geol	Jr 121	3	Walla Walla, Wn.
Daugherty, Bessie				Missoula
Ph. B., A. B. Oberlin College	SQ Mus Sp		4a	Cameron, Mo.
Davenport, Blanche	AS	Fr 15	2, 3	Billings
Davies, Geo. J.	SATC AS	Fr 19	1, 2, 3	Helena
Davis, Boyd E.	SATC	Fr	1	Great Falls
Davis, Edna E.	SQ		4a	Willow Creek
Davis, Martha				
B. S., Kirksville Normal	SQ		4a	Willow Creek
Dawe, Wm. H.	SATC Pharm	Sr 159	1, 2	Missoula
Daylis, Fred T.	SATC AS	Fr 22	1, 2, 3	Worden
Dayton, Almeda	Uncl (Psych)		1, 2	Missoula
Deckard, Olive M.	SQ TDC		4	Missoula
Degenhart, Pearl C.	AS	Fr 25	1, 2, 3	Marco, Ind.
De Jarnett, Monroe	SATC For	So 75	1, 2, 3	Phillipsburg
De Kay, Garrett	AS	Fr	1, 2, 3	Missoula
Delaney, Aurelia B.	SQ		2	Hysham
Delaney, Wm. F.			4	Adger, Ala.
A. B. Christian Univ.	SQ		4	
De Mers, Lambert L.	AS	So 69	2, 3	Lehigh
Dennie, Louis W. (IS)	SATC	Jr	1	Arlee
De Ryke, Le Roy	AS	So 83	1, 2, 3	Lawton, Okla.
Deschamps, Anna	SQ		4	Missoula
Deschamps, Beatrice	AS	Fr 29	1, 2, 3	Missoula
Dibble, Mrs. Mary	SQ		4a	Missoula
Dickey, Dorothy	SQ Nur		4	Cardwell
Dietrich, Eleanor A.	AS	Fr 35	3	Eugene, Ore.
Dillon, John E.	SATC	Fr	1	Helena
Dinsdale, Olive M.	SQ		4a	Whitefish
Dixon, Florence W.	AS Biol	Jr 118	1, 2, 3	Big Horn
Dobson, Olive C.	AS	So 74	1, 2, 3	Missoula
Dochterman, Frances	Law	Sp	2	Missoula
Dodge, Keith Allen				Williston, N. D.
(INS)	SATC For	So 56	1, 2, 3	Challis, Ida.
Doherty, Joseph C.	SATC	Fr	1	Butte
Dolliver, Helen S.	AS	Fr 3	1, 2	Helena
Donohue, Kathryn H.	AS	Fr 23	1, 2, 3	Missoula
Dopfer, Sara	SQ Nur		4	Missoula
Dorsey, James W. (INS)	SATC AS	Fr 15	1, 2, 3	Missoula
Dotseth, Walter A.	SATC	Fr	1	Missoula
Dougherty, Thomas F.				Great Falls
(INS)	SATC		1	
Douglas, Nellie	SQ		4a	Plains
Dowd, Clarence (INS)	SATC	So	1	Billings
Downey, Melvin H.	For	Fr 21	1, 2, 3	Victor
Downs, Wm. E. (INS)	SATC	Fr	1	Butte
Draper, Frank M.	SQ		4	Billings
Dries, Hettie	SQ		4a	Helena
Driscoll, John B. (INS)	SATC	So	1	Missoula
Duffy, Edward E.	SATC	Fr	1	Butte
Dunbar, Ada L.	SQ		4a	Florence
*Dunbar, Sidney W. (IS)	SATC	Fr	1	Missoula
Duncan, Dorothy	AS	So 51	1	Potomac
Dundas, Ronald T. (IS)	SATC	Sp	1	Great Falls
Dunham, Joe S.	Mus Sp		1, 2, 3	Missoula
Dunkle, Ada	SQ		4	Missoula
Dunkle, Meryl B.	SQ		4	Hope, Ida.
Duquette, W. H.	SATC	Fr	1	Hope, Ida.
Durack, Angela	SQ Nur		4	Missoula
Dutton, Grace C.	SQ		4a	Butte
Eberley, Lilah G.	SQ (LR)		4a	Missoula
Eckley, Daniel F.	SATC AS	Fr 17	1, 2, 3	White Water, Wis.
Edwards, Davis				Ronan
Ph. B. Univ. of Chicago	SQ (LR)		4a	Washington, Ohio

Name	Cur-riculum	Rank and Credit Hours	Quarters in Attendance	Residence
Edwards, Mrs. Elizabeth	SQ		4a	Hinsdale
Edwards, Muriel E.	AS Home Econ	Jr	1	Wallace, Ida.
Edwards, Mrs. T. J.	Mus Sp		2	Missoula
Edwards, Wana	AS	Fr 20	1,2,3	Forsyth
Elbert, Dewey S.	SATC	Fr	1	Miles City
Eldering, Grace C.	AS	Fr 28	1,2,3	Rancher
Ellinghouse, Bertha, B.A.	SQ		4a	Missoula
Elliot, Harvey (INS)	SATC	Fr	1	Woodside
Ellis, Rutherford C.	SATC	Fr	1	Libby
Elwell, Harold R.				
LL.B. Cumberland	SATC	Gr	1	Geraldine
Emhoff, Lois Ida	AS	Fr 10	1,2,3	Missoula
Emhoff, Lora A.	Pharm	Fr	1,2	Missoula
Emmons, Robert A.	SATC	Fr	1	Anaconda
Engstrom, Wallace R.	SATC	Fr	1	Poplar
Ensign, Ralph W.	SATC	Fr	1	Detroit, Mich.
Erdman, Wilson A.	SATC	Fr	1	Libby
Erdweg, Henry W.	For	Sp 14	1,2,3	Harlem
Erickson, Marie	AS Hist	Sr 138	4,1,2,3	Missoula
Erickson, Sadie	Jr	So 88	1,2,3	Silver Bow
Erickson, Ida	SQ (LR)		4a	Butte
Este, Leroy D. (INS)	SATC	Jr	1	Roundup
Evans, Helen Lucilla	AS	Fr 24	1,2,3	Butte
Evans, John C.	Uncl		3	Hamilton
Fahrenwald, Richard	SATC	Fr	1	Stevensville
Farmer, Alfred	Jr	Sp	3	Missoula
Farmer, Jas. A.	AS	Fr 25	1,2,3	Missoula
Farrell, Katherine	SQ		4	Butte
Farrell, Margaret P.	AS	So 71	4,1,2,3	Butte
Farrell, Mary M.	SQ		4	Butte
Farrell, Mary N.	Jr	Jr 105	1,2,3	Joliet
Fariss, Wm. F.	SATC	Fr	1	Merced Fall, Calif.
Farrington, Clayton	SATC	Fr	1	Anad
Faust, Florence J.	AS Fine Art	Jr 108	1,2,3	Missoula
Feighner, Winifred	SQ (LR)		4	Missoula
Ferguson, Marian	Mus Sp		1,2,3	Missoula
Finch, Frank C.	SATC	Fr	1	Tee Dee
Finch, Helen	SQ (LR)		4	Dillon
Fisco, Lawrence L.	SATC	Fr	1	Klein
Fisher, Geo. McVey	SATC	Fr	1	Kalispell
Fisk, Margaret I.	AS	Fr	1	Hamilton
Fitzgerald, Mrs. Mildred	Mus Sp		2,3	Missoula
Fitzgibbon, Helen	AS	Fr 12	1,2,3	Hamilton
Fitzpatrick, Florence	SQ		4a	Miles City
Flaherty, Wm. M.	SATC	Fr	1	Missoula
Flanagan, Violet E.	AS	Fr 2	1	Chinook
Flook, Walter D.	SATC	Fr	1	Lewistown
Floyd, Ethelyn	Mus Sp		1	Missoula
Foley, Kathryne	SQ (LR)		4a	Victor
Foley, Sadie	AS	Fr 13	1,2,3	Victor
Foley, Vernice M.	SQ		4a	Darby
Fonner, Delma	SQ (LR)		4a	Missoula
Fortin, Henry Octave	SATC	Fr	1	Trego
Fox, Percy T. (INS)	SATC	Fr	1	Missoula
Ftanz, Mabel	Mus Sp		2	Missoula
Fraser, Barbara	AS Eng	Sr 172	1,2,3	Columbus
Fraser, Helen	SQ Nur		4	Livingston
Fraser, Morna	Mus Sp		4a,1,2	Missoula
Fredericks, Helen G.	Law	Sr 140	1,2,3	Missoula
Free, Eugene G.	SATC AS	Fr 25	1,2,3	Dillon
Freeman, Clement O. (IS)	SATC	Fr	1	Gudley, Cal.
Friauf, Carolyn A.	Mus Sp		1,2	Missoula
Fries, Earl R.	SATC For	Fr 23	1,2,3	Sun River
Frisby, Helen	SQ		4a	Stevensville
Frohlicher, John C.	AS	Fr 12	1,2,3	Kalispell
Frost, Marjorie	AS (LR)	So 43	2	Missoula
Fuson, Reynold C.	AS Chem	Jr 124	4,1,2,3	Bogota, Ill.
Gage, Rea J.	AS	Fr	1	Lewistown
Gallagher, Francis T.	SATC AS	Fr 24	1,2,3	Missoula
Gallagher, John P. (INS)	SATC	Fr	1	Hysham
Gallagher, Merle C. B.A.	SATC	Gr	1	Wabasha, Minn.
Gannaway, Hugh B.	SATC	Fr	1	Harlem

Name	Curriculum	Rank and Credit Hours	Quarters in Attendance	Residence
Garland, Irene A.	AS	Sp	1	Seattle, Wash.
*Garrigus, Mary F.				
B.A., LL.B.	SQ (LR)		4	Missoula
Garver, Raymond J.	AS	Fr 81	1,2,3	Dillon
Garvin, John E.	For	Sp	3	Butte
Gavin, Ruth	SQ		4a	Missoula
Gaw, Murray E.	SATC	Fr	1	Helena
Gerth, Otto Arthur				
LL.B., Univ. of Minn.	SATC	Gr	1	Wheaton, Minn.
Gesser, Ida	SQ Mus Sp		4a	Glendive
Gibson, Dudley B.	SATC	Fr	1	Lewistown
Giese, Dorothy	AS	Fr 2	1,2	Ronan
*Gipson, Helen E.	AS	Fr 5	1,2	Mandan, N. D.
Gilbert, Leslie	SQ		4a	Perma
Gillette, Helen May	AS Home			
Econ		Sr 172	1,2,3	Belt
Gleason, Hildred F.	AS Mod Lan	Jr 105	1,2,3	Florence
Gnose, James P.	AS	Fr 1	1,2	Anaconda
Gnose, Olive C.	Pharm	Fr 17	1,2,3	Anaconda
Godfrey, Lavinia J.	AS	So 72	1,2,3	Helena
Goldman, Erwin	SATC AS	Fr 29	4,1,2,3	Missoula
Goodwin, Helen D., B.A.	SQ		4a	Helena
Gorman, Alyce	Nur		1	Brooks
Gorsline, Seymour	AS Econ	Jr 128	2,3	Roundup
Grady, Mrs. E. J.	AS Bus Ad.	Sp	1	Missoula
Graff, Mrs. Mary L.	Mus Sp	8	1,2,3	Missoula
Graham, Alice A.	Uncl	6	4,2	Missoula
Graham, Lloyd L.	SATC	Fr	1	Kalispell
Grant, Elmer F.	SATC	Fr	1	Pony
Grant, Mae A.	AS Home			
Econ		Jr 104	2,3	Kalispell
Graves, Leonard T.	SATC	So	1	Polson
Graybeal, Wm. T.	Law	Sp	10	Missoula
Green, Russell, O. (IS)	SATC	Fr	1	Forsyth
Greenburg, Frances				
A.B., Reed College	AS (LR)	Gr	4a,2,3	Portland, Ore.
Greene, Mrs. Gladys	AS Fine Art	Sr	2,3	Bozeman
Greenwood, Mrs. Ruth	SQ		4	Hall
Gretencort, John W.	SATC	Fr	1	Lewistown
Griffin, Harry P.	Jrl	So 89	3	Roundup
Griffin, Phillip E.	SATC	Fr	1	Roundup
Griffith, Evan A.	SATC	Fr	1	Ottawa, Minn.
Griffith, Vera G.	Mus	Fr 30	1,2,3	Columbus
Grill, Lester E.	SATC For	So 71	1,2,3	Missoula
Grimshaw, Jean B.	AS	Fr 29	1,2,3	Anaconda
Griswold, Isla	SQ		4a	Missoula
Gros, Clementine M.	Uncl (Psych)		4,1,2	Missoula
Gruell, Charlotte A.	SQ		4	Butte
Gudmunson, Augusta	AS	Fr 18	1,2,3	Rapelje
Gudmunson, Lydia A.	AS	Fr 21	1,2,3	Rapelje
Gunn, Mabel	Nur		1	Helena
Gunning, Nellie E.	AS Hist	Jr 119	1,2,3	Butte
Gwinn, Grace	Mus Sp		4a,1,2,3	Missoula
Haag, Edison H.	SATC	Fr	1	Great Falls
Hadeen, Erik A.	SATC AS	Sp 17	1,2,3	Butte
Hale, Mary J.	AS	So 50	4,1,2,3	Missoula
Hale, Walter M. (IS)	SATC	Fr	1	Seattle, Wash.
Halkesvig, Ruth	AS	Fr	1	Great Falls
Hall, Esther M.	Pharm	Fr	1	Belfry
Hallowell, L. (INS)	SATC	Fr	1	Roundup
*Halse, Lillian E.	AS Hist	Jr	4,1	Sheridan
Hamilton, Donald M.	SATC	Fr	1	Miles City
Hamilton, Edith B.	AS	So 58	4,1,2,3	Butte
Hamilton, Leonard A.	Mus Sp		3	Missoula
Hamilton, Viola G.	Jrl	Fr 32	1,2,3	Missoula
Hammond, Lacey Lucile	AS	So 72	1,2,3	Butte
Henley, Roy W.	SATC	Fr	1	Lewistown
Hansen, Estelle M.	AS	Jr 126	1,2,3	Missoula
Hansen, Hans C.	AS Phys Ed	So 47	2,3	Worden
Hanson, Karen	AS Math	Jr 116	4,1,2,3	Wilbur
Hanson, Nettie O.	SQ		4a	Missoula
Hardy, Wellington C.	SATC	Fr	1	Forsyth
Harner, Elda Muriel	AS	Fr 24	1,2,3	Missoula

Name	Cur-riculum	Rank and Credit Hours	Quarters in Attendance	Residence
Harper, Elizabeth	SQ Nur.		4	Helena
Harpole, Eugene (INS)	SATC AS	So 70	1,2,3	Patterson, Iowa
Harrington, Florence C.	SQ		4a	Stevensville
Harrington, Herbert P.	SATC	Fr	1	Moore
Harrington, Marjorie H.	AS	So 63	1,2,3	Butte
Harris, George G.				
LL.B., Univ. of Minn.	SATC	Gr	1	Smithton, Mo.
Harris, Hewes O.	SATC	Fr	1	Webb City, Mo.
Harrison, Blaine A. (INS)	SATC	Fr	1	Ryegate
Hart, James W. (INS)	SATC	Fr	1	Big Timber
Hartley, William S.	SATC	Fr	1	Laurel
Hassler, Gertrude	Mus Sp.		4b,2	Missoula
Hatheway, Miriam, B.A.	AS (LR)	Gr	1,2	Missoula
Hauf, Rupert W.	SATC	Fr	1	Hamilton
Haviland, Doris	SQ		4a	Missoula
Hawk, Howard B.	SATC For.	Fr 31	1,2,3	Missoula
Hawke, John C.	SATC	Fr	1	Butte
Hawkins, Joseph H.	SATC	Fr	1	Butte
Hayek, Frank E.	SATC		1	Stevensville
Hayes, Ethel M.	AS	So 53	1,2,3	Butte
Hayes, Florence	AS	Fr 23	1,2,3	Missoula
Hayes, Henry F.	For	Sr 190	2,3	Potomac
Haynes, John M.	AS	Fr 9	2,3	Clancy
Healy, Mary B.	SQ		4a	Butte
Hebert, Marian	AS	Jr 96	1,2,3	Three Forks
Heden, Myrtle M.	Pharm.	So 49	1	Conrad
Hefferlin, Pearl A.	AS	Fr 16	1,2,3	Livingston
Hein, Louise C.	AS	Sp	2,3	Chicago, Ill.
Helm, Jesse L.	SATC	Fr	1	Family
Helmer, Nelle	AS	Fr	1	Poplar
Helmerick, Edna E.	AS	Fr 8	1,2,3	Great Falls
Helvik, Lottie J.	AS Mod Lan	Jr 127	1,2,3	Darby
Henderson, Goldie	SQ		4b	Ronan
Henderson, Marguerite	AS	Fr 22	1,2,3	Miles City
Henry, Minnie E.	Uncl (Psych)		4a,2,3	Elgin, Ore.
Herring, Claud E.	SATC	Fr	1	Philipsburg
Heyfron, Louise	Mus Sp.		1	Missoula
*Hiebert, Samuel L. (IS)	SATC	Jr	1	Boston, Mass.
*Higman, Harry H. (IS)	SATC	Fr	1	Hamilton
Hill, John H.	AS Chem.	Sr 171	4a,2,3	Missoula
Hill, Pauline E.	Mus Sp.		3	Missoula
Himes, Mildred V.	AS	Fr 15	4a,1,2,3	Missoula
Hirst, Edward L. (INS)	SATC For.	So 52	1,2	Deer Lodge
Hirst, George N.	SATC	Fr	1	Deer Lodge
Hoag, Wilbor Van A. (IS)	SATC	Fr	1	Spokane, Wash.
Hobson, Richmond N.	SATC	Fr	1	Dillon
Hodson, Lysle R.	SATC AS			
	Geol.	Sr 213	1,2,3	Missoula
Hoem, Inga A.	AS	So 82	1,2,3	Butte
Hoffman, Harvey B.				
A. B. McPherson				
A. M. Kansas Univ.				
LL.B., Harvard	SATC	Gr	1	McPherson, Kan.
Hogeland, Newlin F.	SATC	Fr	1	Southampton, Pa.
Hoiles, William M.	AS Econ.	Sr 171	4,2,3	Dixon
Hollensteiner, Neola	AS	So 53	1,2,3	Lolo
Hoogbruin, Leonard P.	SATC	Fr	1	Missoula
Hooper, James D.	SATC	Fr	1	Stevensville
Horsch, Robert M. (INS)	SATC	Fr	1	Hamilton
Hovet, Harold I.	SATC	Fr	1	Helena
Howard, Anna K.	AS	Fr 8	1,2,3	Blackfoot, Ida.
Howard, Cortland B.	SATC AS	So 43	1,2,3	Bozeman
Howard, George W.	AS	Fr 12	2,3	Butte
Howard, Jessie L.	Mus Sp.		4a,2,3	Missoula
Howard, Mrs. J. W.	Mus Sp.	50	2,3	Missoula
Howard, Nora May	AS Bus Ad.	Jr	1,3	Blackfoot, Ida.
Howes, Harry P. (IS)	SATC	Fr	1	Topeka, Kan.
Huffman, Eva E.	SQ (LR)		4	Anaconda
Hughes, Honoria L.	AS	Fr	1	Butte
Huntoon, Myrna	SQ (LR)		4	Pontiac, Mich.
Hurd, George M.				
LL.B. Chicago Kent				
Law School	Law	Gr	2,3	Roundup

Name	Curriculum	Rank and Credit Hours	Quarters in Attendance	Residence
Hutchens, Helena F.	Mus Sp	2	4a,1,2,3	Missoula
Hutchens, Mrs. Leila K.				
M. A., Smith College.	SQ (LR)		4a	Missoula
Hutchinson, Frank E.	For	Fr 27	1,2,3	Williams Bay, Wis.
Hyde, Nona G.	AS	Fr 29	1,2,3	Missoula
Inch, Beatrice E.	AS Eng	Sr 175	4a,1,2,3	Missoula
Inch, Herbert E.	Mus Sp		1,2,3	Missoula
Ireland, Elizabeth	SQ		4	Parker's Prairie, Minn.
Ireland, Russell A.	SATC For	Jr 133	4,1,2,3	Pendleton, Ind.
Iseminger, Boyd A.	SATC	Fr	1	Kalispell
Iverson, Astrid O.	Nur		1	Judith Gap
Jackman, Roscoe E. (IS)	SATC AS	So 76	1,2,3	Missoula
Jacobsen, Lillian	AS	Fr 23	1,2,3	Ovondo
Jacobson, Esther I. A.				
B. A.	Jrl	Gr	1,2,3	Missoula
Jacobson, Ruby, B. A.	SQ		4	Missoula
James, Lois H.	AS	So 45	1,2,3	Anaconda
James, Opal N.	Mus Sp		1,2,3	Missoula
James, Ruth A.	AS	Fr 18	1,2,3	Anaconda
James, William H.	SATC	Fr	1	Valley Spring, S. D.
Jameson, Lucille	AS	So 59	1,2,3	Missoula
Jameson, William J.	SATC AS			
Econ.		Sr 172	4a,1,2,3	Missoula
Janke, Minnie	AS	Sp 3	4a,2	Missoula
Jardine, Harry J.	SATC AS	Fr 25	1,2,3	Great Falls
Jarl, Ruth E.	AS	So 73	1,2,3	Great Falls
Jensen, Florence V.	AS	So 60	1,2,3	Butte
Johnson, Alfred B.	SATC	Fr	1	Kent, Wash.
Johnson, Charline C.	AS Bus Ad	Sr 167	1,2,3	Missoula
Johnson, Clara A.	AS Eng	Sr 140	1,3	Victor
Johnson, Dale	SQ		4b	Evano
Johnson, D. Ronald	SATC AS	Fr 31	1,2,3	Missoula
Johnson, Elsie May	AS Math	Sr 176	1,2,3	Hamilton
Johnson, Ernest B. (IS)	SATC	Fr	1	Missoula
Johnson, Harold I.	SATC	Fr	1	Polson
Johnson, Isabelle J.	AS	Fr 24	1,2,3	Absarokee
Johnson, J. Reginald	SATC	Fr	1	Shelby
Johnson, Margaret M.	Jrl	Jr 120	1,2,3	Great Falls
Johnson, Rhea M.	AS Lib Sc	Sr 163	4a,1,2,3	Missoula
Johnston, Garnet B.	Mus Sp		1	Fortin
Johnston, William C.	For	Fr 21	2,3	New York, N. Y.
Jones, Howard R.	SATC For	Fr 29	1,2,3	Missoula
Jones, Josie J.	SQ		4	Missoula
Jones, Lois	Nur		1	Missoula
Jones, Margaret H.	Mus Sp		4a,1,2,3	Missoula
Jordan, Arthur D.	SATC	Fr	1	Helena
Joy, Charles A.	SATC For	Fr 27	1,2,3	Missoula
Joyce, Mary L.	AS	Fr 16	1,2,3	Whitelall
Judson, Edith M.	AS	Fr	1	Great Falls
Kain, Hazel M.	AS Home			
Econ.		Sr 174	1,2,3	Stevensville
Kain, Ronald S.	Jrl	Fr 19	2,3	Helena
Kane, Tom	SATC	Fr	1	Corvallis
Kane, William	For	Jr 99	3	New York, N. Y.
Keeley, Elias M.	Law	So	2,3	Deer Lodge
Keeling, Charles R.	SATC For	Fr 26	1,2,3	Somers
Keith, Allie H.	AS	Fr 27	1,2,3	Butte
Keith, Beverly C.	SATC AS	Fr 34	1,2	Missoula
Keith, Constance	AS	So 64	1,2,3	Missoula
Keith, Ruth	AS	So 61	4a,1	Missoula
Kelley, Elisabeth A.	AS Hist	Sr 183	4,1,2	Providence, R. I.
Kelly, Madeline A.	AS Hist	Sr 136	4,1,2,3	Missoula
Kelly, Nellie	SQ		4a	Butte
Kenyon, Lorán P.	SATC	Fr	1	Laurel
Kern, Martin D.	SATC	Fr	1	Ramsay
Kerrigan, Anna C.	SQ		4	Red Lodge
Kersbergen, William G.	SQ		4a	Grantsdale
Ketcham, Mrs. Gladys F.	SQ TDC		4a	Missoula
Kibble, Raymond A.	SATC	Fr	1	Roundup
Kiefer, Norman W.				
A. B., Kansas Univ.	SATC	Gr	1	Lawrence, Kan.
Kiest, Florence E.	Nur		1	Hingham
Kirk, Verna M.	SQ (LR)		4a	Decatur, Ill.

REGISTER OF STUDENTS

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Name	Curriculum	Rank and Credit Hours	Quarters in Attendance	Residence
Kirkwood, Bertha.....	SQ.....		4	Missoula
Klammer, Florence A.....	AS.....	Fr 15	1,2,3	Worden
Kleinoeder, Ruth M.....	AS Hist.....	Jr 110	1,2,3	Hamilton
Knights, Winnifred M.....	Uncl(Psych).....		1,2	Missoula
Knowles, Vera H.....	Jrl.....	So 90	4a,1,2,3	Missoula
Koefod, Ralph W. (INS).....	SATC.....	Fr.....	1	Rudyard
Kriegal, Richard.....	SATC.....	Fr.....	1	Miles, Texas
Krug, Frederick Stover.....	Mus Sp.....		1,2	Missoula
Krug, Mrs. Grace.....	Mus Sp.....		2	Missoula
Krug, Virginia G.....	Mus Sp.....		1,2	Missoula
Kurtz, Edward C.....	SATC.....	Gr.....	1	Hamilton
Lamey, Walter B.....	SATC.....	Fr.....	1	Havre
Lamont, A. Marie.....	Uncl (LR).....		4,2	Missoula
Lamp, Harold M.....	SATC.....	Fr.....	1	Big Timber
Laporte, Esmond				
O'Malley.....	SATC.....	Fr.....	1	Stacy
Largent, Howard (INS).....	SATC.....	So.....	1	Anaconda
Larson, Casper A.....	SATC.....	Fr.....	1	Lewistown
Larson, Geva.....	SQ.....		4	Medicine Lake
Laughlin, Gertrude E.				
B.A., Wooster College.....	SQ.....		4	Butte
Lautz, Fritz A.....	For.....	Fr 19	2,3	Buffalo, N. Y.
Laux, Mary M.....	AS.....	Fr 31	2,3	Kalispell
Lawler, Lorene A.....	AS.....	So 65	4,1,2,3	Anaconda
Lawlis, Grace L.....	Mus.....	5	1,2,3	Missoula
Leach, Marion A.....	AS Home			
Econ.....	Jr 116		1,2,3	Dillon
LeClaire, Algeroy C.....	AS.....	So 49	4a,2,3	Missoula
Lee, Alfert J.(INS).....	SATC.....		1	Helena
Lenahan, Annie L.....	SQ.....		4a	Missoula
Lennstrend, Tesla, B.A.....	SQ TDC.....		4	Missoula
Lenon, Emma C.....	AS (LR).....	Sp 7	1,2,3	Missoula
Lenon, Lucile G.....	AS.....	Fr 25	1,2,3	Missoula
Leopold, Lewis F. (IS).....	SATC.....	Fr.....	1	Livingston
Lester, Geerge A.....	Law.....	Sp 89	3	Forsyth
Leyda, Margaret L.				
A.B., Univ. of Neba.....	AS.....	Gr.....	3	Falls City, Neb.
Lien, William N.....	SATC For.....	Fr 27	1,2,3	Bonner
Likes, Rella, B.A.....	SQ (LR).....		4a	Missoula
Lilliefors, Edith.....	Mus.....	Fr 17	1,2,3	Great Falls
Limmell, John I.				
B.S., Upsala, Sweden.....	SATC.....	Gr.....	1	Missoula
Lindberg, Lilly I.....	AS.....	Fr 16	2,3	Missoula
Linderman, Verne B.....	AS.....	So 45	3	Somers
Linderman, Wilda J.....	AS.....	So 91	2,3	Somers
Lindsmith, Herbert C.....	SATC.....	Fr.....	1	Ryegate
Lindfors, Verena.....	SQ TDC.....		4a	Missoula
Ling, Charles W.....	SATC.....	Fr.....	1	Havre
Ling, Luella C.....	AS.....	So 69	1,2,3	Billings
Lingenfelter, Fred D.				
(INS).....	SATC.....		1	Des Moines, Iowa
Linn, Marguerite, B.A.....	SQ (LR).....		4a	Henderson
Little, Helen.....	Jrl.....	So 70	1,2,3	Hamilton
Little, Helen A.....	AS.....	So 71	4a,1,2,3	Butte
Lintz, Garnett A.....	SATC.....	Fr.....	1	Deer Lodge
Lister, Alvin E.....	For.....	So 49	2	Missoula
Lockeridge, Hugh F.....	SATC.....	Jr 98	1	Corvallis
Lockwood, Charles L.....	SATC For.....	So 60	1,2,3	Hamilton
Logan, William R.....	Law.....	Sp.....	1	Kalispell
Longshore, Alice V.....	SQ.....		4	Columbiana, Ala.
Lore, Mildred T.....	AS.....	Fr 20	1,2,3	Billings
Loughrin, Florence A.....	SQ.....		4a	Butte
Lukens, Josephine M.....	AS Home.....			
Econ.....	Jr 116		1,2,3	Missoula
Lundell, Jennie M.....	SQ.....		4a	Sand Coulee
Lussky, George F.				
A.B., Univ. of Chicago:				
A. M. Ph.D. Univ. of				
Wis.....	AS(LR).....	Gr.....	1	Missoula
Luttrell, Dorothy A.....	Pharm.....	So 67	1,2,3	Plains
Lyden, Martin P.....	SATC.....	Fr.....	1	Butte
Lutton, Julia M.....	SQ.....		4a	Butte
McAdams, Raymond B.....	AS.....	Fr 17	1,2,3	Helena

Name	Cur-riculum	Rank and Credit Hours	Quarters in Attendance	Residence
McAfee, John C.				
A. B. Gonzaga	SATC	Gr	1	Anaconda
McAlear, James H.	SATC	Fr	1	Polson
McAllister, Adalouie	AS	Fr 28	1,2,3	Missoula
McAnelly, Annie M.	SQ		4a	Highwood
McAuliffe, Virginia M.	AS Phys EdJr	106	1,2,3	Butte
McCann, Caroline	Jrl	Fr 28	1,2,3	Chinook
McCarthy, Mary H.	AS	So 53	1,2,3	Butte
McCauley, Mrs. Violet J.	Mus Sp		3	Missoula
McCollum, Morris H.	SATC For	Fr 24	1,2,3	Lewistown
McConnell, Lura M.	SQ		4a	Galata
McCormick, W. J.	Mus Sp		4b,3	Missoula
McCrary, Frances L.	AS	So 62	1,2,3	Park City
McDonnell, Ann E.	AS Gr. & Latin	Jr 111	2,3	Big Timber
McDonnell, Helen W.	Pharm	Fr 17	1,2,3	Lewistown
McDonald, Joseph H.	SATC	Fr	1	Dillon
McFadden, Harry E. (IS)	SATC	Sp	1	St. Ignatius
McFarland, John C.	SATC	Fr	1	Big Sandy
McGarrin, Edward F.	SATC	Fr	1	Great Falls
McGilvry, Mrs. Eleanor	Uncl (Psych)		4a,1,2	Missoula
McHaffie, Ruth	As English	Sr 184	1,2,3	Missoula
McIntosh, James J.	SATC	Sr	1	Forsyth
McIntyre, Alfred B. (INS)	SATC		1	Hinsdale
McKain, Neil D.	SATC Jrl	So 75	1,2,3	Missoula
McKenzie, Donald E.	SATC	Fr	1	Great Falls
McKeown, Willis H. (IS)	SATC	Fr	1	Divide
McKoin, Clarence K.	SATC AS	Fr 26	1,2,3	Lewistown
McLain, Charles A.	SQ		4a	Ingomar
McLaughlin, Flora G.	AS Home Econ	Jr 125	1,2,3	Dixon
McLeod, M. Evelyn	Jrl	Sr 169	4,1,2,3	Missoula
McLeod, Olive Wheeler	Mus Sp		3	Missoula
McMahon, Francis E.	AS	Sp 3	2,3	Great Falls
McMillan, Ella J.	AS	Fr 9	1,2,3	Miles City
McMillan, Ina	SQ		4a	Miles City
McQuay, Ruth	AS	Fr 25	1,2,3	Butte
MacDonald, George D.	SATC For	Fr 32	1,2,3	Butte
MacDonald, Ida M.	AS	Fr 19	1,2,3	Missoula
MacKenzie, Roscoe D.	SATC	Fr	1	North Lake, Wis.
MacKae, Lloyd D.	SATC AS	Fr 24	1,2,3	Anaconda
Mack, Rellie G.	SATC	Fr	1	Van Norman
Maclay, Carrie V.	AS Econ	Jr 105	1,2,3	Lolo
Maclay, Elizabeth B.	AS	So 77	4,2,3	Lolo
Maclay, Holmes (INS)				
B.S.	SATC	Gr	1	Lolo
Maclay, Samuel S. (INS)	SATC AS	So 64	1,2,3	Lolo
Madison, Fred H.	SQ		4	Willow Creek
Madsen, Edward G.	SATC	Fr	1	Miles City
Madsen, Lloyd A.	SATC	Fr	1	Miles City
Madson, Agnes J.	SQ		4a	Absarokee
Maerdian, Edith A.	AS Math	Sr 154	4,1,2,3	Polson
Magnuson, Herbert J. (IS)	SATC	Fr	1	Raynesford
Mahood, Russell J.	SATC	Fr	1	Polson
Mahurin, Merton M.	SATC	Fr	1	White Sulphur Springs
Malin, Reba	AS	Fr 20	1,2,3	Hamilton
Mallory, Ethel M.	AS	So 49	1	Polson
Mallory, Virgil W.	SATC	Fr	1	Polson
Malone, Earl W.	Pharm	Jr 96	2,3	Hamilton
Malonev, Florence	MUS Sp		2	Missoula
Manning, David M. (INS)	SATC	Fr	1	Hysham
Manning, Esther W.	SQ (LR)		4a	Kalispell
Mansikka, Walfrid A.	SATC	Fr	1	Stockett
Marks, Charles H., Jr.				
(IS)	SATC	Sr	1	Martinez, Cal.
Marks, Linnie L.	Uncl		3	Cando, N. D.
Marsh, Glenn Clinton	SATC	Fr	1	Shelby
Marsh, Glenn William	SATC	Fr	1	Sheridan
Marshall, Dorothy E.	AS	So 80	1,2,3	Missoula
Marshall, Grace R.	AS	Sp	3	Missoula
Marshall, Jean	Mus Sp		4a,2	Missoula
Marshall, Mrs. J. F. S.	SQ (LR)		4b	Stevensville
Martin, Myrtle A.	SQ		4	Cut Bank

REGISTER OF STUDENTS

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Name	Curriculum	Rank and Credit Hours	Quarters in Attendance	Residence
Martz, Lorena.....	AS.....	Fr.....	1.....	Missoula
Massey, Manuel A. (IS) B.S., M.S., State Col. of Wash.....	SATC.....	Gr.....	1.....	Owensville, Ind.
Masters, Myrtle M.....	SQ.....	.....	4a.....	Sweet Springs, Mo.
Mattke, Bernice L.....	AS.....	Fr 25.....	1,2,3.....	Valler
Maurer, Mabel L.....	AS.....	Fr.....	1.....	Great Falls
May, Rex B.A., Ohio Wesleyan.....	Law.....	Gr.....	3.....	Stevensville
Mayer, Hugo E.....	AS.....	Fr 16.....	1,2,3.....	Butte
Mayer, Gilford H.....	SATC.....	Fr.....	1.....	Anaconda
Mays, Ella J.....	SQ.....	.....	4.....	Culbertson
Meagher, Raphael J.....	AS.....	Fr 19.....	1,2,3.....	Missoula
Meeks, Winifred A.....	AS.....	So 87.....	2,3.....	Great Falls
Meeuwenberg, James (INS).....	SATC AS.....	So 62.....	1,2,3.....	Freemont, Mich.
Melton, George M. LL.B., Univ. of Mich.....	SATC.....	Gr.....	1.....	Dillon
Mennell, Mina L.....	SQ.....	.....	4.....	Missoula
Meredith, Albert R. (INS).....	SATC.....	.....	1.....	Chicago, Ill.
Merrick, Maxwell E.....	SATC.....	Fr.....	1.....	Big Timber
Merritt, Olive M.....	SQ.....	.....	4.....	Valley, Idaho
Metcalfe, Gladys.....	Mus Sp.....	.....	1,2.....	Missoula
Michaud, Blanche.....	AS.....	Fr.....	1.....	St. Ignatius
Miesen, Mrs. Anna.....	Nur.....	.....	1.....	Missoula
Millam, Delbert L.....	SATC.....	Fr.....	1.....	Darby
Miller, Dorothy E.....	AS Home Econ.....	Jr 96.....	1,2.....	Darby
Miller, Ruth A.B., Univ. of Minn.....	SQ.....	.....	4a.....	Grangeville, Ida.
Millick, Genevieve.....	AS Bus Ad.....	Jr.....	1.....	Blackfoot, Ida.
Millick, Marie.....	AS Bus Ad.....	Jr.....	1.....	Blackfoot, Ida.
Mills, Kathryn M.....	As Eng.....	Jr 96.....	1,2,3.....	Missoula
Milot, John A.....	SATC.....	Fr.....	1.....	Stockett
Minesinger, Julia.....	Mus Sp.....	.....	1,2,3.....	Missoula
Minson, George H. A. B. Findlay J. D. Univ. of Chicago.....	SATC.....	Gr.....	1.....	Decatur, Ill.
Mitchell, Eleanor L.....	AS.....	Fr 27.....	1,2,3.....	Townsend
Mitchell, Ellen.....	Nur.....	.....	1.....	Norbert
Mcats, Ethel M.....	AS Bus Ad.....	Sp.....	2.....	Missoula
Moble, Mary S.....	AS.....	So 76.....	1,2,3.....	Missoula
Montgomery, Edna M.....	AS Chem.....	Sr 166.....	1,2,3.....	Chinook
Mooney, Guy L.....	SATC Jrl.....	So 72.....	1,2,3.....	Judith Gap
Moore, Dorothy D.....	AS.....	Fr 21.....	1,2,3.....	Helena
Moore, Robert J. (INS).....	SATC.....	Fr.....	1.....	Great Falls
Moore, Tom B.....	SATC AS.....	So 73.....	1,2,3.....	Butte
Moore, Mrs. W. E.....	SQ Mus Sp.....	.....	4a.....	Missoula
Morin, Paul E. (IS).....	SATC.....	Sp.....	1.....	Anaconda
Morrow, Andrew M.....	AS.....	Fr.....	1.....	Ryegate
Morrow, Charles H.....	SATC AS.....	So 62.....	1,2,3.....	Ryegate
Mosby, Ellsworth C.....	Law.....	So 43.....	3.....	Eureka
Mosby, Victoria A.....	AS.....	Fr 18.....	1,2,3.....	Eureka
Mulrone, Mrs. Mary.....	SQ (LR).....	.....	4.....	Missoula
Mundt, Lester E.....	SATC.....	Fr.....	1.....	Helena
Munson, Arthur M.....	SATC.....	Fr.....	1.....	Clancy
Murane, Clara M.....	SQ.....	.....	4a.....	Columbus
Murphey, Caroline.....	Uncl.....	20.....	4,1.....	Mildred
Murphey, Katherine W.....	AS.....	So 67.....	1,2,3.....	Butte
Murphy, Judith O.....	Pharm.....	Fr 33.....	1,2,3.....	Alder
Murphy, Myrtle.....	SQ.....	.....	4a.....	Ovando
Murphy, Nicholas H. (IS).....	SATC.....	Fr.....	1.....	Jordan
Murray, Anna M.....	AS.....	Fr.....	1.....	Butte
Mussey, William O.....	AS Bus Ad.....	Jr.....	2,3.....	Denver, Colo.
Neal, Alice E.....	AS.....	Fr.....	3.....	Butte
Nedrey, Anna.....	Uncl (Psych).....	.....	4,1,2,3.....	Missoula
Nelson, Harry H.....	Law.....	Sp 33.....	1,2.....	Missoula
Nelson, Helen H.....	Mus Sp.....	.....	1.....	Missoula
Nelson, Laura E.....	AS.....	So 80.....	2,3.....	Missoula
Nelson, Letty M.....	SQ.....	.....	4a.....	Baldwin, Wis.
Nelson, Palmer R.....	SATC.....	Fr.....	1.....	Valley City, N. D.
Nepstad, Lillian G.....	AS.....	So 62.....	1,2,3.....	Grey Cliff

Name	Curriculum	Rank and Credit Hours	Quarters in Attendance	Residence
Nesdahl, Elise				
B.A., Univ. of N. D.	SQ		4	Fosston, Minn.
Newcomb, Genevieve L.	Nur.		1	Judith Gap
Newton, Cairo T.	SATC	Fr	1	Billings
Nicholson, Margaret E.	Mus Sp		4a,1	Missoula
Niles, Grace E.	Mus.	So 51	1,2,3	Livingston
Nohl, Anna M.	AS Bus Sp	So 67	1,2,3	Belt
Nutterville, Catherine	SQ		4	Butte
O'Connor, Kathleen M.	Mus Sp		1	Missoula
O'Donnell, Ann N.	Pharm.	Fr 12	1,2	Helena
O'Hare, James E.	SATC	Fr	1	Florence
O'Malley, Margaret F.	SQ		4	Miles City
O'Neil, Charles B.	AS	Fr 16	1,2	Kalispell
O'Neil, Clinton L.	SATC	So	1	Kalispell
Olsen, Alvin C.	SATC	Fr	1	Havre
Olsen, Barbara M.	Nur.		1	Ekalaka
Oison, Lorena D.	Mus Sp		4a,1,2,3	Missoula
Oison, Mable R.	Mus Sp		2,3	Missoula
Orgain, Arthur E.	AS	So 47	3	Wibaux
Orr, Conrad O.	AS Econ	Sr 145	2,3	Missoula
Orville, Harold C.	SATC	Fr	1	Arlee
Orvis, John M.	SATC	Fr	1	Missoula
Owens, Forest	SQ		4a	Helena
Owens, Jennie	SQ (LR)		4b	Missoula
Palin, William F.	SATC	Fr	1	Valier
Palmer, Kate L.	Uncl (Psych)		1	Missoula
Paquette, Emile E.	SATC		1	Central Falls, R. I.
Patterson, Frank	AS	Fr 12	1,2,3	Missoula
Patterson, Joshua E.				
(INS)	SATC		1	Fontanelle, Iowa
Patterson, Mildred A.	AS	Fr 16	1,2,3	Savage
Pauline, Agnes	SQ Nur.		4	Kalispell
Pauline, Donald G.	SATC	Fr	1	Kalispell
Paxson, Lelia E.	AS Mod Lan Jr	122	4,1,2,3	Missoula
Pearsall, Bonna B.	AS	Fr 28	1,2,3	Thompson Falls
Pease, Gertrude	Mus Sp		1,2,3	Missoula
Pearson, Evangeline I.	Mus Sp		1	Great Falls
Pearson, Laura E.	AS	Fr	1	Great Falls
Feat, Lucile	SQ Nur.		4	Missoula
Pengel, Edward J.	SATC	Fr	1	Buffalo Lake, Minn.
Perrine, Ardis	AS	Fr 20	1,2,3	Big Timber
Perry, Cecil J.	SATC	Fr	1	Victor
Perry, Charlotte				
Plummer	AS Eng.	Sr	4,1	Stevensville
Peshick, Frank				
A.B., Univ. of Mich.	SATC	Gr	1	Missoula
Peters, Alonzo A.	SATC AS	Fr 9	1,2	Fresno
Peters, George F.	Uncl		4b,1	Hamburg, Ger.
Peterson, Elizabeth	SQ		4a	Medicine Lake
Peterson, Francis	Mus Sp		1,2,3	Missoula
Peterson, Nettie H.	AS	Fr 15	1,2,3	Dixon
Pettit, Harry L.	SATC	Fr	1	Kalispell
Pew, Mary E.	AS Eng	Sr 173	4,1,2,3	Missoula
Phelps, Dorothy J.	AS	Fr 26	1,2,3	Missoula
Phelps, Howard R.	SATC	Fr	1	Tacoma, Wash.
Phillips, George P.	For.	So 58	2,3	Butte
Phillips, John A.	For.	Fr	1	Butte
Phipps, Cecil G.	AS	Fr 31	2,3	Florence
Pierce, Edna L.	AS	Sp 40	4,1,2,3	Forest Grove
Pierson, Alpha				
B.A., Univ. of Wyo.	SQ		4	Missoula
Pierson, Elocia	SQ (LR)		4b	Kalispell
Plummer, William T.	AS	Fr	1	Stevensville
Poindexter, Everton J.	SATC AS	Fr 26	1,2,3	Dillon
Poindexter, Jessie C.	SQ		4a	Dillon
Pool, Louis Kelly				
B.S., Mont. State Col.	SATC	Gr	1	Townsend
Poole, Anna M.	AS Hist.	Sr 136	4,1,2,3	Butte
Pope, Marshall T.	Mus Sp		1	Wisdom
Pope, W. L.				
B.A., Univ. of Neb.				
J.D., Univ. of Chicago	SQ (LR)		4b	Missoula
Pope, Mrs. W. L.				
B.A., Univ. of Neb.	SQ Mus Sp		4b	Missoula

Name	Curriculum	Rank and Credit Hours	Quarters in Attendance	Residence
Popham, William L.	AS	Fr	1	Victor
Porter, Heber T.	SATC Phar.	Fr 22	1,2,3	Belgrade
Porter, Ruth E.	SQ		4	Libby
Porterfield, Minnie	Uncl (Psych)		2,3	Missoula
Potter, Jason E. (IS)	SATC	Fr	1	Miles City
Prescott, Doris, B.A.	SQ (LR)		4	Missoula
Prescott, Helen M.	AS	Fr 27	1,2,3	Helena
Preston, Charles R.	SATC	Fr	1	Missoula
Price, Gladys A.	Mus Sp.		1	Missoula
Purcell, James M.	AS Eng.	Sr 140	1,2,3	Billings
Putnam, Hazel D.	SQ		4	River side
Rafferty, Evelyn D.	AS	So 91	4a,1,2,3	Missoula
Rakeman, Henry E.	SATC	Fr	1	Polson
Ramsey, Theodore L.	SATC	Fr	1	Ashley
Ransom, Ralph W. (IS)	SATC	Sp	1	Cut Bank
Rask, Harold E.	SATC	Fr	1	Kalispell
Raudabaugh, Charles B.	SATC AS	So 61	1,2	Victor
Raudabaugh, Lillian				
B.L., Ohio Wesleyan Col.	SQ		4a	Missoula
Raw, May E.	Nur.		1	Hobson
Redle, Katherine B.	AS	Sp 19	1,2,3	Missoula
Rediske, Herman A.	SATC	Fr	1	Ryegate
Redpath, Charles A. (INS)	SATC	Fr	1	Helena
Reed, Frances W.	SQ		4	Milwaukee, Wis.
Reeder, Lloyd E.	SATC	Fr	1	Ryegate
Reely, Ann	AS Eng.	Sr 146	4,1,2,3	Missoula
Reely, M. Grace, B.A.	AS	Gr	1,2	Missoula
Reeve, Cyrille E.	SATC	Fr	1	Horte
Rehder, Annabelle, B.A.	SQ (LR)		4a	Missoula
*Reiquam, Lajola A.	Nur.		1	Collins
Reinhard, Mrs. Ethel				
Orvis	AS Bus Ad.	Jr	4,1,2,3	Missoula
Remore, Grace M.	SQ		4	Vandalla
Rennick, Lenore	Uncl (Psych)		1,2	Missoula
Renwick, Beatrice G.	AS	So	1,2,3	Billings
Reynolds, Gladys M.	AS	Fr 13	1,2,3	Butte
Reynolds, Roxborough				
(INS)	SATC	Jr	1	Anaconda
Ribble, Bel				
B.A., Univ. of Mich.	SQ		4a	Sidney
Richards, Sophia E.	SQ		4a	Kansas City, Mo.
Richardson, Chester A.				
(INS)	SATC	Fr	1	Cardwell
Rickman, Theodore B.	SATC	Fr	1	Helena
Rider, Martha G.				
B. S. Kansas State				
Normal	AS (LR)	Gr	1,2	Missoula
Ries, Bertha S.	AS	So 67	1,2,3	Billings
Ring, James B.	SATC	Fr	1	Harlem
Rinnan, Julius G.	SATC	Fr	1	Great Falls
Ritchey, James	Mus Sp.		1,2,3	Missoula
Robinson, Fannie	Uncl (Psych)	5	1,2	Missoula
Robinson, Gladys G.	Jrl.	Fr 27	1,2,3	Malta
Robinson, Ruth S.	AS	Fr 15	1,2,3	Whitefish
Romersa, William J.	SATC	Fr	1	Red Lodge
Ronan, Margaret	SQ		4	Missoula
Roney, Alice E.	SQ (LR)		4a	Anaconda
Rose, Millard A.	Pharm	Fr 18	2,3	Bozeman
Rosendorf, Edward (INS)	SATC Jrl.	So 71	1,3	Sandpoint, Ida.
Ross, Bruce W.	For.	Fr 9	2,3	Missoula
Ross, Harry M. (IS)	SATC	So	1	Terry
Rowan, Marguerite	SQ Nur.		4	Butte
Rowe, Mrs. Anna	SQ (LR)		4	Missoula
Royalty, Clifton H. (INS)	SATC	Fr	1	Laurel
Roydson, Dorrance S.	AS	Fr	3	Chicago, Ill.
Rudd, Helen	Mus.	Sp 132	4,1,2,3	Missoula
Ruiter, Beatrice M.	AS Math.	Jr 122	1,2,3	Red Lodge
Rumel, Evelynna	SQ		4a	Butte
Ruppel, Henry G.	SATC AS			
Chem.	Jr 125		1,2,3	Twin Bridges
Russel, Carrie M.	SQ		4a	Broadus
Rutherford, William L.	SQ		4a	Cascade
Rutledge, Bessie M.	AS Math.	Sr 173	4,1,2,3	Missoula

Name	Cur-riculum	Rank and Credit Hours	Quarters in Attendance	Residence
Rutledge, Neva M.	AS	So 45	4,1,2,3	Missoula
Sager, Norbert W.	SATC AS	Fr 25	1,2,3	Missoula
Sailor, Floyd W. (INS)	SATC	Jr	1	Gilford
Sanburn, Roy	Mus Sp		1,2	Missoula
Sandberg, Paul W.	SATC	Fr	1	Collins
Sanders, John E.	SATC AS	So 83	1,2,3	Havre
Sanders, Josephine	AS	So 81	1,2,3	Havre
Sanders, Shields B.	For	Sp 4	2	Neihart
Sanderson, Cora	AS	Fr 22	1,2,3	Miles City
Sandford, E. R.				
B. S. Campbell Univ.	SQ		4	Missoula
Sandstrom, Ester	SQ		4a	Victor
Schabacker, Harold W.	SATC	Fr	1	Rockford, Ill.
Scherck, George	Jr	Sr 176	2,3	Missoula
Scheuber, Mary O.	AS	Fr 11	1,2,3	Livingston
Schlossberg, Herman	SATC	Fr	1	Missoula
Schlossberg, Joseph (INS)	SATC	Fr	1	Missoula
Schmitz, Fred W.				
LL.B., Iowa Univ.	SATC	Gr	1	Brooklyn, Iowa
Schneider, Emma I.	SQ		4	Lyons, Mo.
Schneider, Walcott R.	SATC	Fr	1	Sheridan
Schuck, Zelma R.	AS	Fr	1	Eureka
Schuster, Anna	SQ		4b	Glentana
Schwalm, Hazel A.	Mus Sp		1,2,3	Missoula
Schwefel, Alice C.	AS Biol	Jr 114	4,1,2,3	Butte
Scott, Quincy	SQ (LR)		4b	Missoula
Scott, Mrs. Velma J.	SQ (LR)		4	Missoula
Seely, Minnie E.	Uncl (Psych)	8	1,2	Missoula
Selstrom, Ivan F. (INS)	SATC	Fr	1	Stockett
Seright, Fern F.	Pharm	So 67	1,2,3	Joliet
Sestak, Bessie, B.A.	AS Lib Sc	Gr	1,2,3	Victor
Sestak, Minnie	AS Eng	Sr 167	1,2,3	Victor
Severance, Lloyd D.	SATC	Fr	1	Big Timber
Sexton, Winnifred	As Bus Ad (LR)	Sp	2	Missoula
Shaffer, John B.	SATC	Fr	1	Miles City
Sharp, Mabel M.	SQ (LR)		4	Anaconda
Shaughnessy, Cecilia R.	Mus Sp		1,2,3	Missoula
Shea, Anna M.	AS	So 59	1	Stevensville
Shea, Lillian M.	AS	Fr 36	1	Butte
Sheedy, Alice	Pharm	Fr 15	4,1	Missoula
Sheedy, Josephine E.	AS	Fr 21	1,2,3	Missoula
Sheeder, Ruth E.	SQ		4a	Kalispell
Sheets, George L. (INS)	SATC	Fr	1	Laurel
Shepard, George R.	Law	Fr 10	3	Custer
Shepherd, Jean Charlotte	AS Chem	Sr 170	1,2,3	Great Falls
Shindoll, Virgil V.	Pharm	Fr	1	Missoula
Shiple, Leila M.	AS	Fr 10	1,2,3	Plains
Shoup, Mittie	Uncl (Psych)	16	1,2	Missoula
Showell, Lois C.	Mus	Fr 23	4a,1,2,3	Missoula
Showell, Mary I.	AS	Fr 13	2,3	Missoula
Shryne, Thomas E. (INS)	SATC	Fr	1	Great Falls
Shull, Josiah T.	SATC For	Fr 27	1,2,3	Missoula
Shuman, Edena I.	AS	Fr 14	1,2,3	Henryetta, Okla.
Sievers, Ruth E.	AS	Fr	1	Butte
Simmons, Kenneth R.	AS Biol	Jr	1	Butte
Simpkins, Mabel M.	AS	Fr 22	1,2,3	Missoula
Sisson, Margaret	Mus Sp		1,2	Missoula
Slack, S. A.	SQ		4	Dobson
Sloan, Emily E.	Law	Sp 48	2,3	Belle Fourche, S. D.
Sloan, Ona, B.A.	SQ TDC		4a	Missoula
Smith, Elmer L.	SATC	Fr	1	Spokane, Wash.
Smith, Mrs. H. E.				
A.B., Mt. Holyoke	SQ Mus Sp		4a	Missoula
Smith, Winifred M.	AS	So 69	1,2,3	Great Falls
Sneed, Silas S.	SATC	Fr	1	Belle River, Ill.
Snyder, Mrs. Audrey	Mus Sp		4b,1,3	Missoula
Sodergren, Helen	SQ		4	Billings
Sorensen, Andy E.	AS	Jr	3	Montpelier, Ida.
Spaulding, Chad H.	SATC AS	Fr 16	1,2,3	Lewistown
Spaulding, Vida R.	AS	Fr 9	1,2,3	Ronan
Speer, Lucile E.	Mus Sp		1,2,3	Missoula

Name	Cur-riculum	Rank and Credit Hours	Quarters in Attendance	Residence
Spelman, James R.	SATC AS	Fr 9	1,2	Anaconda
Spiller, Charles R. (INS)	SATC AS	So 82	1,2,3	Belt
Springer, Fred J.	SATC	So	1	Great Falls
Spogen, Leo R.	SATC AS	So 75	1,2,3	Belt
Sponheim, Louisa A.	AS	Fr 23	1,2,3	Basin
Spuhler, Jeanette H.	AS Hist.	Sr 184	1,2,3	Sheridan
Stache, Mildred E.	Mus.	So 75	1,2,3	Wallace, Ida.
Stacy, Lorenza W., Jr.	SATC	Fr	1	Miles City
Staffanson, Inez	AS	So 42	1	Sidney
Stafford, Agnes	SQ (LR)		4a	Butte
Stamm, Helen	AS	Fr	1	Chinook
Stanley, Robert D.	SATC	Fr	1	Corvallis
Stead, Naomi F.	Mus.	Fr 22	1,2,3	Havre
Stein, Harriet E.	AS	So 49	2	Belt
Stephenson, Stanly				
B.Pd. Springfield Nor- mal, Missouri	Law	Sr	3	Missoula
Sterling, Dorothy	AS	So 48	1,2,3	Missoula
Sterling, Eunice D.	AS	Fr 30	1,2,3	Three Forks
Sterling, John W.	SATC AS	So 88	1,2,3	Missoula
Stevens, Donald	SATC	Fr	1	Pony
Stewart, Helen E.	AS	So 67	1,2,3	Billings
Stewart, Mary				
B. S. Pittsburg Col.	SQ		4a	Missoula
Stillman, Madge J.	SQ		4a	Arlee
Stillwell, Stella	SQ (LR)		4a	Warrensburg, Mo.
Stumpert, Fred D.	SATC AS	So 59	1,2,3	Great Falls
Stimson, Frederick L. (INS)	SATC	Fr	1	Pablo
Stoddard, Helen F.	AS (LR)	So 72	2	Missoula
Stoddard, Ida F.	AS	So 56	1,2,3	Missoula
Stockhill, Harry E.	SATC	Fr	1	Miles City
Stoll, Regina H.	SQ		4b	Missoula
Stone, Emerson, B.A.	Mus.	Gr	2,3	Missoula
Stowe, Benjamin F.	AS	Fr 12	1,2,3	Missoula
Strain, Mary Dorothea	AS	Fr 20	1,2,3	Great Falls
Strausz, Alvo L. (INS)				
B.S., M.S., Wash.				
State College	SATC	Gr	1	Missoula
Streit, Alma C.	Mus (LR)	Fr 12	1,2,3	Missoula
Streit, Helen	SQ (LR)		4a	Missoula
Strong, William E.	For	So 53	3	Detroit, Mich.
Strowd, James H. (INS)	SATC	Fr	1	Whitehall
Sullivan, John D.	SATC AS	So 82	1,2,3	Belton
Sullivan, Richard F.	AS	Jr 96	1	Hamilton
Sunden, Frank E.	SATC	Fr	1	Kalispell
Sult, Beatrice	SQ		4	Baker
Summers, Ethel	SQ		4a	Sykes
Sutherland, Carlyn H.	SATC	Fr	1	Corvallis
Swain, J. W.				
A. B. Columbia				
A. M. Harvard				
Ph.D. Columbia	SQ Mus Sp		4a	Helena
Swanson, Bertha B.	SQ		4a	Potomac
Swanson, Ernest T.	SATC	Fr	1	Great Falls
Swanson, Minnie L.	AS	Fr 20	1,2,3	Potomac
Swanson, Myrtle	SQ		4a	Potomac
Swearingen, Thomas G. (IS)	SATC For	Jr 110	1,2,3	Great Falls
Switzer, Ruth	AS	Fr	1,2	Jeffers
Sylvester, Ida M.	Pharm.	Fr 18	1,2,3	Anaconda
Taft, Harriet E.	SQ		4a	Lavina
Taft, Wilbur R., B. A.				
Univ. of Minn.	SATC	Gr	1	Big Sandy
Talgo, Elsie G.	AS	Fr 16	1,2,3	Billings
Tallman, George J. (INS)	SATC	Fr	1	Simms
Tawney, David B. (INS)	SATC		1	Hamilton
Taylor, Clyde W.	Law	Sp	1	Missoula
Temby, Harry L.	SATC	Fr	1	Butte
Theis, Frances W.	AS Mod Lan	Sr 160	1,2,3	Missoula
Thetge, Doris	AS	So 73	1,2,3	Helena
Thomas, Amelia E.	AS	Fr	1	Worden

Name	Curriculum	Rank and Credit Hours	Quarters in Attendance	Residence
Thomas, Evalyn, B. A.	SQ (LR)		4a	Missoula
Thomas, Charles	SATC	Fr	1	Dillon
Thomas, Lettie	SQ		4a	Eureka
Thomas, Mabel E.	SQ		4a	Eureka
Thompson, Bereth	SQ		4a	Alberton
*Thompson, Blanche K.	AS	Fr 24	4,1,2	Alberton
Thompson, Elsie A.	AS	Fr 38	1,2,3	Winston
Thompson, Grace G.	SQ		4	Roundup
Thompson, Lois E.	AS	So 68	1,2	Red Lodge
Thompson, Theodore D.				
(INS)	SATC	So	1	Spokane, Wash.
Thorn, Vernice M.	SQ		4a	Alberton
Thorpe, Wano	For	Sp	3	Gardner, Mass.
Tiedt, Inez J.	AS	So 49	4,1,2,3	Missoula
Tinker, Richard L.	SATC	Fr	1	Helena
Tintinger, Solomon N.	SATC	So	1	Cascade
Toole, Brice	AS	Jr	2,3	Missoula
Toole, John R.	AS	Fr 16	2,3	Missoula
Torrance, Edward Glazar	SATC AS	So 75	1,2,3	Butte
Tucker, Mable	SQ Nur		4	Malta
Toulouse, Albert L.	SATC AS	Fr 26	1,2,3	Roundup
Townsend, Augustus P.				
(INS)	SATC		1	Kahoka, Mo.
Townsend, Joseph B.	Jrl	Jr 96	3	Stevensville
Townsley, Percy E.	SATC	Fr	1	Miles City
Trahan, Albina H.	Pharm	Fr	1	St. Ignatius
Treiber, Marion F.	AS	Fr 21	1,2,3	Billings
Tuchscherer, Arthur R.	SATC	Fr	1	Anaconda
Tuchscherer, Mrs. Arthur R.	Nur		1	Anaconda
Turcott, George L.	AS Chem.	Sr 171	2,3	Ruby
Turnbull, Ruby M.	AS	Fr	1,2	Lewistown
Turner, Beatrice	AS Hist.	Sr 153	1,2	Beatrice
Turner, Margaret B.	AS Econ.	Jr 125	1,2,3	Helena
Tuttle, Eugene R.	SATC	Fr	1	Whitehall
Underhill, Lulu J.	AS	Fr 29	1,2,3	Dayton
Utley, Maytie	SQ		4a	Missoula
Valentine, Albert C.	SATC	Jr	1	New York, N. Y.
Van Cleve, Gretchen	SQ		4	Custer
Van Horn, Thomas B.	For	So 70	2,3	Miles City
Van Vliet, Ethel M., B.S.	SQ		4a	Missoula
Vedova, Ernest G.	SATC	Fr	1	Red Lodge
Velten, Marie	SQ (LR)		4b	Eureka
Vitt, Herbert O.	SATC Law	Jr 108	1,3	Butte
Wagner, Eileen L.	AS Eng.	Sr 163	2,3	Missoula
Wagner, Irma L.	AS	Fr 2	1,3	Missoula
Waite, Mildred D.	Mus Sp.	6	4b,1,2,3	Missoula
Walcott, Mrs. Dixie F.	SQ		4a	Missoula
Walker, Bert Joseph	SATC	Fr	1	Lewistown
Walker, Edna Medora	Mus Sp.	5	4a,1,2	Butte
Walker, James H.	SATC	Fr	1	Sheridan
Walker, John E.	SATC	Fr	1	Highwood
Walker, Phoebe H.	AS	Fr 31	4a,1,2,3	Missoula
Wallace, Enid C.	AS Bus Ad.			
(LR)		Sp 133	2,3	Missoula
Walsh, Helen E.	Mus.	Fr 10	1,2,3	Missoula
Walpole, Lenore	SQ		4b	Missoula
Waltemate, Beulah	SQ		4a	Missoula
Walter, Adeline N.	Pharm.	Jr 114	1,2,3	Sheridan
Ward, Ethridge D.	SATC	Sr	1	Dillon
Ward, Theresa	SQ		4a	Missoula
Warner, Anna	SQ		4a	Bearmouth
Warner, Neil G.	SATC	So	1	Clear Lake, S. D.
Watson, Harry E.	SATC For	Fr 19	1,2,3	Square Butte
Watters, Charles D.	SATC	Fr	1	Victor
Webber, Oma	Mus Sp.		1	Missoula
Weed, Frances I.	SQ		4a	Zurich
Weigle, Frank L.	SATC AS	Fr 22	1,2,3	Libby
Weinstein, Dorothy	AS	Fr	1	Butte
Welk, Rubina S.	SQ Mus Sp.		4a	Missoula
Wellman, Earl L.	SATC	Fr	1	Jordan
Wells, Gerald Neff	SATC	Fr	1	Fairview
Wentz, Carey F.	SATC For	Fr 16	1,2,3	Bonita

Name	Cur-riculum	Rank and Credit Hours	Quarters in Attendance	Residence
Wertheim, David K.	SATC AS	Fr 23	1,2,3	Great Falls
West, Hazel E.	Mus Sp		2,3	Missoula
Westby, Cleve O.	AS Econ	Jr 110	2,3	Terry
Wetzsteon, Dora	AS	Fr 1	1,2	Sula
Whisler, Harold	SATC For	Jr 127	1,2,3	Missoula
White, Minnie	SQ Nur		4	Manhattan
White, Omar W.	AS	Fr 22	1,2,3	Missoula
White, Philip R.	AS	Fr 22	1,2,3	Missoula
White, Wellington L, B.S.	For	Gr	2,3	Conner
White, Will W.	SATC	Fr	1	Lewistown
Whiteacre, James E.	SATC	Fr	1	Choteau
Whiteside, Eunice E.	Jr	Fr 27	1,2,3	Kalispell
Whitham, Mrs. Belle	AS (LR)	Sp	1,2,3	Missoula
Whiting, June, B.A.	SQ		4a	Missoula
Whitlock, Mrs. Charlotte T.	Uncl		1	Missoula
Whitsitt, Hazel M.	AS Hist	Jr 115	1,2,3	Corvallis
Whitworth, Dorothy	AS	So 77	1,2,3	Deer Lodge
White, Keith C.	SATC		1	Anaconda
Wickes, Elizabeth W.	AS	Fr 29	1,2,3	Missoula
Wickes, Margaret S.	AS Eng	Jr 128	1,2,3	Missoula
Wight, Alice I. Mrs.	Nur		1	Lewistown
Williams, Hazel E.	AS	Fr	1	Missoula
Williges, Elsie D.	SQ		4a	Sioux City, Iowa
Wilson, Anna B.	Jr	Fr 27	1,2,3	Havre
Wilson, Ernest E. (INS)	SATC	Fr	1	Boulder
Wilson, Mrs. Frances H.	AS Eng	Sr 136	2,3	Missoula
Wilson, Fred B.	AS	So 72	2,3	Highland, Calif.
Wilson, Fremont W.	SATC	Fr	1	Havre
Wilson, Leslie E.	Law	Jr 109	2	Rimini
Wilson, Louise J. Mrs.	Uncl (Psych)		4,2,3	Missoula
Wilson, Margaret	Mus Sp		1,2	Missoula
Wilson, Neil S.	SATC AS	Fr 26	1,2,3	Butte
Wilson, William	SATC AS	Fr 24	1,2,3	Sand Coulee
Winninghoff, Florence L.	AS	Fr 18	1,2,3	Phillipsburg
Winsor, Ivan F. (IS)	SATC For	So 47	1,3	Miles City
Winter, Helena A.	AS	Sp 9	1,2	Missoula
Wirt, Lillian				
A.B., Univ. of Neb.	SQ (LR)		4a	Lincoln
Woehner, Albert E.	Pharm	Jr 100	1,2,3	Great Falls
Wonn, Edwin J.	SATC	Fr	1	Avoca, Wis.
Wood, Douthit	S	Fr 8	2,3	Malta
Woods, Anna L.	SQ		4a	Inverness
Woods, Melville	SATC AS			
Bus Ad		Jr 132	1,2,3	Great Falls
Woodford, Mildred E.	AS	Fr	1	Missoula
Woodward, Mac Wesley	SATC	Fr	1	Whitehall
Wren, Jodie Lee	Jr	So 58	1,2,3	Great Falls
Wright, Donald C.	SATC	Fr	1	Great Falls
Wright, Hazel E.	SQ		4a	Missoula
Wuest, Thelma M.	AS	Fr 30	1,2,3	Malta
Wyman, Lenthall				
A.B., M.F., Harvard	SATC	Gr	1	Dorchester, Mass.
Yegen, Virginia	AS	Fr 29	1,2,3	Billings
York, Minnie	SQ		4a	Butte
York, Nancy	SQ		4a	Butte
Young, Harold	SATC Pharm	Jr 118	1,2,3	Three Forks
Young, Leta	SQ		4	West Unity, Ohio
Young, Minna	SQ Nur		4	Missoula

STUDENTS ARMY TRAINING CORPS.

Section B (Vocational)

Students Enrolled August 15, 1918—October 15, 1918.

Adams, H. J.	Austin, S. A.	Black, H. B.
Angle, E. R.	Baker, George W.	Blue, Edwin R. N.
Applegren, A. E.	Balbinot, Angelo	Bohling, F. F.
Arp, Ewald A.	Barker, Samuel	Bostrack, Ole
Arrigoni, Raymond E.	Beals, Clyde H.	Bowerman, Leon C.

- Bonewitz, G. F.
(Deceased Oct. 12, 1918).
- Brannen, Robert C.
- Brown, Roy E.
- Bruce, C. D.
- Buhler, E. J.
- Buntin, Eddie Ray
- Burkey, N. A.
- Cherney, Frank J.
- Clemens, Henry R.
- Connors, W. G.
- Conover, C. S.
- Corcoran, William D.
- Cornelissen, G. W.
(Deceased Oct. 16, 1918).
- Cutler, Wm. H.
- Dahl, Hans H.
- Dahl, J. A.
- Dalson, Vernon
- Davidson, J. R.
- Dean, L. F.
- Dehler, A. G.
- Duffy, Robert Emmet
- Durnall, Kenneth
- Dyll, Louis M.
- Early, Alonzo Henry
- Egan, James
- Eggleston, H. O.
- Elder, Wayne D.
- Elliot, M. H.
- Erickson, A. F.
- Erickson, Talbert M.
- Evenson, C.
- Fadness, A. H.
- Feathirty, C. M.
- Fink, R. A.
- Fortier, A. F.
- French, L. B.
- Friedlander, Ernest
- Gagner, Pat R.
- Gallagher, W. E.
- Geigher, Harold J.
- Gerondale, J. N.
(Deceased Oct. 20, 1918).
- Gilbertson, C.
- Gipson, O. A.
- Giulio, John
- Goms, Herbert L.
- Good, Thomas J.
- Gordon, Jack Taylor
- Graeber, E. K.
- Greeley, M. F.
- Green, W. Floyd
- Griffin, G. W.
- Grilla, Walter
- Grossman, Samuel
- Hall, Henry Cleveland
- Hambley, U. C.
- Harper, P.
- Hartman, F. A.
- Hartwig, Fredrick J.
- Haugland, Owen J.
- Hefferlin, Willard C.
- Henck, F. G.
- Herzog, Joseph W.
- Hinkle, A. S.
- Hocking, Richard E.
- Holland, Charles S.
- Homan, Guilford Fuller
- Housel, Firman P.
- Howard, Frank E.
- Howard, Earl Dixon
- Howe, R.
- Isakson, Irving
- Johnson, C. W.
- Johnson, Edgar D.
- Johnston, G. U.
- Jonson, Ralph D.
(Deceased Oct. 15, 1918).
- Jones, Lewis C.
- Jouglin, Neil
(Deceased, Oct. 14, 1918).
- Judson, Howard M.
- Kennedy, Everitt W.
- Ketterer, Berl
- Kiely, Andrew J.
- King, J. W.
- Kizer, Eustus Orion
- Knaff, A. J.
- Krohne, Charles E.
- Lamp, E. C.
- Lane, Nelson
- Larson, Benjamin
- Lee, Christopher J.
- Lee, James P.
- Lee, M. N.
- Lein, C. A.
- Levitt, L. G.
- Longpre, Dannie J.
- Loy, C. E.
- Lunt, Guy W.
- Lytle, Robert N.
- McCabe, John Henry
- McDonald, John O.
- McDougall, E. A.
- McIntosh, F. B.
- McLean, James
- Mahnken, Thomas E.
- Mapes, Henry F.
- Marino, D. Michael
- Marsh, Calvin S.
- Martin, P. J.
- Melum, Oscar A.
- Mengel, A. J.
- Michel, R. H.
- Millett, Everett A.
- Morger, Frank F.
- Munter, Allen J.
- Murphy, A. P.
- Murphy, Clem F.
- Murphy, Paul R.
- Myrus, Henry
- Narum, Duncan H.
- Needham, Vein W.
- Nelson, H. E.
- Newell, James T.
- Nicholls, George
(Deceased, Oct. 14, 1918).
- Noble, W. J.
- Norris, Harold M.
- Nye, Paul R.
- O'Connell, T. J. P.
- O'Hare, John
- Olson, B. A.
- Owen, Clifford O.
- Paul, Albert Peter
- Peterson, Arthur W.
- Phillips, H. I.
- Phillips, J. D.
- Phillips, Vivian J.
- Pickering, W. R.
- Pogson, Chester F.
(Deceased Oct. 18, 1918).
- Rainberg, Harry
- Rainey, N. L.
- Ramsay, Earl Rain
- Rehn, A. B.
- Reynolds, Roy E.
(Deceased Oct. 17, 1918).
- Rindle, A. T.
- Riste, Andrew Anderson
- Rocher, C. S.
- Roney, Claud E.
- Setterholm, J. A.
- Skladony, J. P.
(Deceased Oct. 20, 1918)
- Smith, Charles H.
- Smith, Ora Oscar
- Sorenson, L. H.
- Spaulding, C. L.
- Stewart, John C.

Strandskov, Einer E. (Deceased Oct. 17, 1918).	Thayer, A. F. Thayer, Lawrence St. Thayer, Lester B.	Vogt, J. H. Wallace, Harry M. Wallin, A. H.
Suggs, Chester James	Thisted, Nels A.	Wangerin, Clarence
Suiter, C. D.	Thompson, Percy E.	Ware, B. E.
Suiter, Harold R.	Tobiason, W. G.	Westergard, J. E.
Sullivan, John W.	Toomire, Melvin E.	Weston, Harry W.
Sullivan, Joseph C.	Tostenrud, Arthur	Whitehead, G. B.
Swanke, C. H.	Tracy, Eugene M.	Whitman, James F.
Taplin, Harry Elwood	Vaillincourt, J. A.	Whitten, L. B.
Taylor, R. R.	Van Cleave, Richard L.	Wilson, James Stuart
Terrel, Glen R.	Veirup, N. Niels	Wolverton, Irving G.

STUDENTS ENROLLED IN CORRESPONDENCE COURSES.

April 2, 1918—April 14, 1919.

Anderson, Mabel.....	Valier, Montana
Arnold, Ilo V.....	Chinook, Montana
Atkinson, Nellie S.....	Saco, Montana
Baird, Hazel M.....	Warland, Montana
Baldwin, Grace M.....	Twete, Montana
Barnes, Carmelita.....	Oak Grove, Missouri
Barnett, Ruth.....	Glendive, Montana
Barrows, Beth C.....	Billings, Montana
Benson, Florence.....	Yellow Springs, Ohio
Bombard, Hazel.....	Missoula, Montana
Booth, Myrna.....	Virginia City, Montana
Bromley, Burt M.....	Red Lodge, Montana
Brosnan, Sister Margaret Mary.....	Great Falls, Montana
Brown, Gladys.....	Thompson Falls, Montana
Browne, Phyllis S.....	Missoula, Montana
Bullock, Dorothy.....	Salesville, Montana
Callison, Carolyn.....	Cut Bank, Montana
Cody, Mary E.....	Butte, Montana
Crouch, Mrs. J. H.....	Montpelier, Idaho
Dana, Edwin M.....	Missoula, Montana
Darlington, Nora.....	Superior, Montana
Day, Bessie J.....	Drummond, Montana
Davis, Ruth M.....	Butte, Montana
Dunn, Sister Mary Agnes.....	Great Falls, Montana
Dunne, Sister Annunciata.....	Great Falls, Montana
Farrell, Mary M.....	Silver Star, Montana
Foster, Rose.....	Great Falls, Montana
Fouts, Annie M.....	Great Falls, Montana
Gillette, Hellen M.....	Belt, Montana
Grant, Mae.....	Kalispell, Montana
Hapner, Leora M.....	Bozeman, Montana
Haswell, Laura Cool.....	Great Falls, Montana
Hofstetter, George.....	Great Falls, Montana
Ireland, Elizabeth.....	Havre, Montana
Kain, Hazel M.....	Stevensville, Montana
Kelley, Elisabeth A.....	Missoula, Montana
Kreiner, Sister Mary Fenbarr.....	Great Falls, Montana
Laughlin, Gertrude M.....	Butte, Montana
Leary, Grace M.....	Eureka, Montana
Line, Ruth M.....	Columbus, Montana
McBride, Rose.....	Lima, Montana

McGrady, Anna L.....	Anaconda, Montana
McKenney, Lulu.....	Power, Montana
Madison, F. H.....	Willow Creek, Montana
Mennell, Mrs. Estelle.....	Wickes, Montana
Murphy, Mary A.....	Butte, Montana
Nedry, Anna L.....	Missoula, Montana
Owens, Forest.....	Poston, Montana
Payne, Lillian.....	Missoula, Montana
Poindexter, Jessie.....	Harlowton, Montana
Pond, Carrie.....	Hamilton, Montana
Poole, Anna M.....	Butte, Montana
Porter, Ruth E.....	Pleasant Valley, Montana
Raudabaugh, Lillian.....	Missoula, Montana
Riechel, Mrs. Wade.....	Aznoe, Montana
Root, George H.....	Missoula, Montana
Sennett, Helen M.....	Polson, Montana
Sheeder, Ruth E.....	Kalispell, Montana
Shepard, George R.....	Custer, Montana
Smith, Winifred M.....	Great Falls, Montana
Spears, Ethel.....	Clancy, Montana
Spurgin, Minnie.....	Missoula, Montana
Stimson, Claude W.....	Missoula, Montana
Stone, Margaret Garvin.....	Dillon, Montana
Troyer, Charles P.....	Creston, Montana
Turner, Beatrice.....	Beatrice, Montana
VanCleve, Gretchen.....	Fromberg, Montana
Waltemate, Beulah.....	Missoula, Montana
Wanderer, Myrtle.....	Boulder, Montana
Ward, Fred J.....	Brockway, Montana
Ward, Mrs. J. W.....	Kalma, Montana
White, Millard C.....	Wagon Wheel Gap, Colo.
Williges, Elsie D.....	Sioux City, Iowa
Wilson, Irma.....	Conrad, Montana
Wilson, Mrs. L. J.....	Missoula, Montana
Woods, Melville.....	Great Falls, Montana

DEGREES AND CERTIFICATES GRANTED.

1918-1919.

*Granted December 1918.

**Granted April 1919.

All others granted June, 1918.

Degree of Bachelor of Arts

Name:	Major Subject:
Ainsworth, Lewina Rowland.....	English
Bailey, Jane Meigher.....	Law
Barnett, Ruth A.....	English
Barrows, Beth Caroline.....	Home Economics
Black, E. Vera.....	Home Economics
Black, Martha Ann.....	Chemistry
Bockes, Charlotte Maxine.....	English
Boles, Alice Margaret.....	English
Burke, Monica Frances.....	Home Economics
Carroll, Matthew V.....	Business Administration
Colvin, Alice Frances.....	English

Daniels, Philip X.....	Law
Dietrich, John Maurice.....	Economics
Donohue, Dorothy Agnes.....	English
Drenckhahn, Esther Catherine.....	Botany
Ellinghouse, Bertha Ellen.....	History
Fairchild, Lillian Fay.....	Latin
*Farrell, Katherine H.....	History
Felker, Preston Richard.....	Education
Friauf, James Byron.....	Physics
Gallagher, Merle Cuyler.....	Chemistry
Garrigus, Mary Frances.....	Law
*Goodwin, Helen D.....	English
*Hanson, Nettie O.....	English
Jacobson, Esther I. A.....	Modern Languages
*Jones, Josie J.....	English
Kain, Elsie Maud.....	English
Kapp, Nora Marguerite.....	Home Economics
King, Ollie May.....	Fine Arts
Lamb, Cosette.....	English
Larson, Esther N.....	Home Economics
Lennstrend, Tesla Viking.....	English
*Longshore, Alice.....	English
Lyden, Anna Marguerite.....	Business Administration
McGreevy, Marguerite Mary.....	Mathematics
Morehouse, Inez I.....	Journalism
Nelson, Jennie Irene.....	Latin and Greek
O'Donnell, Irene Anastasia.....	Latin
O'Hara, Geraldine M.....	Law
**Owens, Forest.....	Economics
Paul, Lucile Justin.....	French
*Poindexter, Jessie.....	English
*Porter, Ruth Ellen.....	Mathematics
Prescott, Doris.....	English
Prescott, Ernest M.....	English
Prestbye, Emin Christian.....	Law
Railsback, Jessie.....	Psychology and Education
Rehder, Annabelle.....	Modern Languages
*Sanford, Emmet Reid.....	Business Administration
Stone, Emerson.....	Journalism
Stone, Margaret Garvin.....	Journalism
Tuchscherer, Viola.....	English
*Waltemate, Beulah B.....	History
Wanderer, Myrtle May.....	Mathematics
Wolpert, Ferdinand S.....	Botany
Wright, Mary Della.....	Biology

Degree of Bachelor of Science

Bober, Mandell M.....	Mathematics
White, Wellington Irwin.....	Forestry

Degree of Bachelor of Laws

Bailey, Jane Meigher
 Garrigus, Mary Frances
 Prestbye, Emin Christian
 Rankin, Edna

Degree of Master of Arts

Breneman, John Howard.....Education

Degree of Master of Science

Hubert, Ernest E.....Botany

Certificate of Completion of Course in LawBentz, Christian
Hickey, Charles T.
Layton, Jack Joseph**Degree of Graduate in Pharmacy**Dawe, William H.
Young, Harold C.**Law Certificates Granted**

Bentz, Christian ('18).....	McLaughlin, S. D.
Brown, James M. ('16).....	Missoula
Cummins, Edwin John ('16).....	Missoula
Friday, R. C. ('17).....	Missoula
Gwinn, Ira A. ('17).....	Sunburst
Hickey, Charles T. ('18).....	Seattle, Wn.
Judson, Horace W. ('16).....	Great Falls
Layton, Jack Joseph ('18).....	Portland, Ore.
O'Sullivan, Emmet, M.A. ('17).....	Denmark, W. Australia
Ray, Willis E. ('17).....	Deer Lodge
Tyman, Charles L. ('17).....	Butte
Wuolle, Onni August ('17).....	San Francisco, Cal.

SUMMARY BY COUNTIES AND STATES

1918-1919

Beaverhead	15
Big Horn	2
Blaine	13
Broadwater	4
Carbon	12
Cascade	60
Choteau	8
Custer	22
Dawson	7
Deer Lodge	32
Fallon	4
Fergus	27
Flathead	46
Gallatin	12
Granite	9
Hill	14
Jefferson	10
Lewis and Clark	32
Lincoln	15
Madison	18
Mineral	6
Missoula	335
Musselshell	20
Park	5
Phillips	8
Powell	9
Prairie	3
Ravalli	67
Richland	9
Rosebud	12
Sanders	10
Sheridan	7
Silver Bow	76
Stillwater	9
Sweetgrass	13
Teton	13
Toole	6
Valley	4
Wheatland	3
Wibaux	1
Yellowstone	28
Other States	25
Other Countries	3
Total	1134

Register of Alumni

Ade, Harry George, B.S. (Forestry) ('15)	Missoula
Ainsworth, Lewina R., B.A. (English) ('18)	Buffalo
Allen, Edgar Warren, Ph.C. ('10)	Red Lodge
Allen, Edward Dudley, B.S. (Biology) ('15)	
	Rush Medical College, Chicago
Allison, Herman Thomas, B.A. (Mathematics) ('13)	
	Puget Sound Light & Water Co., Seattle, Wn.
Ambrose, Ethel O. (Mrs. H. L. Hitchcock) B.A. (Literary) ('08)	
	4571 Fountain Ave., Los Angeles, California
Anderson, John Frederick, B.S. (in M. E.) ('02) (Deceased Oct. 3, 1910)	
Anderson, Laura, B.S. (Home Economics) ('16)	
	Rhode Island State College, Kingston, R. I.
Andrews, Almeda (Mrs. C. F. Farmer) B.A. (Classical) ('09)	Missoula
Angevine, Eugene E., Ph.C. ('17)	Missoula
Armitage, George, B.A. (Journalism and Commerce & Acct.) ('14)	
	Billings
Averill, Cora (Mrs. N. S. Poole) B.A. (Classical) ('07)	Townsend
Averill, Frances Hale, B.A. (Literature) ('11)	Billings
Avery, Charles Earl, B.Ph. ('00)	Anaconda
Avery, Myrtle Weber (Mrs. Chas. E. Avery) B.S. (Classical) ('03)	
	(Deceased July, 1914)
Bachelor, Elwin Paul, B.A. (Law) ('15) LL.B. ('16)	Miles City
Bachelor, Harold Irving, B.A. (Law) ('15) LL.B. ('16)	Miles City
Bailey, Jane Meigher, B.A. (Law) ('18) LL.B. ('18)	Missoula
Baird, Alva C., B.A. (Law) ('16)	Stevensville
Baker, Leo Walter, B.S. (Engineering) ('12)	Schnectady, N. Y.
Barnes, George, Rev., B.A. (Classical) ('02) (D.D., Oxford University)	Battle Creek, Mich.
Barnett, Ruth A., B.A. (English) ('18)	Glendive
Barrows, Beth Caroline, B.A. (Home Economics) ('18)	Billings
Bauer, Charles E. M., B. A. (Psychology and Education) ('16)	Hingham
Baxter, Galin Otis, B.A. (History and Economics) ('16)	Harlowton
Beavers, George Edward, B.S. ('09)	Billings
Bellew, Zoe (Mrs. Sidney M. Ward) B.A. ('99) M.A. ('02)	Hamilton
Bennett, William Andrew, B.A. (Economics) ('11)	Belgrade
Berry, Agnes Dorothea, B.A. (Literary) ('08)	Missoula
Perry, Oral J., B.S. ('08)	Silver City, New Mexico
Birdsall, Frances, B.A. (Fine Arts) ('16)	Minneapolis, Minn.
Birely, Esther, B.A. (English) ('14)	Billings
Bishop, Arthur Fowler, B.S. (Forestry) ('11)	Missoula
Bishop, Jessie May (Mrs. E. P. Giboney) B.A. (Literary) ('05)	
	Seattle, Wash.
Black, E. Vera, B.A. (Home Economics) ('18)	Stanford
Black, Martha Ann., B.A. (Chemistry) ('18)	Idaho Falls, Ida.
Blake, Harold, B.S. (in M. E.) ('02) Major Commissary Dept.	
	Anaconda
Blomgren, Ethel Elizabeth, B.A. (Mathematics) ('17)	Butte
Bober, Mandel M. B.S. (Mathematics) ('18)	Passaic, N. J.
Bockes, Charlotte Maxine, B.A. (English) ('18)	Stanford
Bol, Cornelius, B.S. (Physics) ('14)	Palo Alto, Calif.

- Boles, Alice Margaret, B.A. (English) ('18).....Washington, D. C.
 Bonner, James Henry, B.S. (Engineering) ('07).....Helena
 Bovee, Estelle, B.Ph. ('01).....Wallace, Ida.
 Bowman, Conrad Henry, B.A. (History and Economics) ('11).....
Corvallis
 Bradford, Bess Margaret (Mrs. Charles Popkins) B.A. (Literary)
 ('09).....Sapulpa, Okla.
 Brady, Sylvia May (Mrs. Carl Holliday) M.A. (English) ('15).....
Toledo, Ohio
 Breneman, John Howard, M.A. (Education) ('18).....
 Breitenstein, William G., M.A. (Journalism) ('15).....Burlington, Iowa
 Bridgeman, Morris L., Jr., Ph.G. ('16).....Great Falls
 Brooks, James Forrest, B.S. (Forestry) ('17).....
2410 Vine St., Lincoln, Nebr.
 Buck, Charles Amos, B.S. (Engineering) ('08).....Stevensville
 Buck, Fred Elliott, B.S. (in M. E.) ('06).....Butte
 Buckhous, Joseph, B.S. (in M. E.) ('06).....St. Ignatius
 Buckhous, Mary Gertrude, B.S. ('00).....Missoula
 Buffington, Joseph P., LL.B. ('16).....Crow Rock
 Bullard, Nell Cavette (Mrs. H. A. Trexler) B.A. (Literary) ('08)
Missoula
 Bullerdick, Millard S., B.A. (Economics and History) ('11).....
Sidney
 Bunker, Page, B.A. (Classical) ('04).....Fitchburg, Mass.
 Burfiend, Harry C., Ph.C. ('12).....Dillon
 Burke, Mary Elizabeth, B.A. (Latin) ('10).....(Deceased Jan. 26, 1919)
 Burke, Monica Frances, B.A. (Home Economics) ('18).....Missoula
 Burns, Maud (Mrs. Irving B. Hoefler) B.A. ('06).....Dixon, Illinois
 Buse, Alpha, B.S. (Psychology) ('16).....Washington, D. C.
 Busha, Thomas C., B.A. (Law) ('17).....Big Timber
 Buswell, Dera Montana (Mrs. W. V. Rowland) B.A. (Literature)
 ('09).....15 Ailsa Morrisons, Victoria, B. C.
 Butzerin, Anna Hazel (Mrs. C. A. Bisbee) B.A. (Latin) ('10).....
Lake Bluff, Ill.
 Cameron, Carl Ernest, B.A. ('13) LL.B. ('14).....Missoula
 Carney, Mary Florence, B.A. (History) ('17).....Worden
 Carroll, Mathew V., B.A. (Business Administration) ('18).....Seattle, Wn.
 Carter, Anna F., B.S. ('05).....Missoula
 Catlin, Florence E., B.A. (Literature) ('11).....Anaconda
 Chadwick, Edna Ruth, B.A. (English) ('16).....Missoula
 Chen, Ching-Han, B.S. (Commerce and Accounting) ('16).....
Canton, China
 Clark, Pearl Elizabeth, B.A. ('16) M.A. ('17) (Mathematics).....Anaconda
 Clay, Hazel G. (Mrs. Glen E. McKay) B.A. (History) ('16).....
Pompey's Pillar
 Cochrane, Frances, B.A. (Education) ('16).....Roseville, Ohio
 Cockrell, Moncure, B.A. (Classical) ('04).....New York, N. Y.
 Coffee, Eva M., B.S. (Biology) ('11).....Missoula
 Collins, Albert R., Ph.C., B.S. (Pharmacy) ('16).....Butte
 Colvin, Alice Frances, B.A. (English) ('18).....Columbus
 Conrad, Blanche, Ph.C. ('10).....Butte
 Conner, Daniel Marion, B.S. (Engineering) ('12).....Conner
 Converse, Earl W., Ph.C. ('13).....Anaconda
 Conway, Walter Lincoln, B.S. (Biology) ('15).....Horte
 Cook, Arthur B., Ph.C. ('16) B.S. ('17) (Pharmacy).....Bonita
 Corbin, Edwin Reed, B.S. (in M.E.) ('06).....Eden, Idaho
 Cotter, Charles Patrick, B.S. (in Engineering) ('07).....Helena
 Cox, Harvey H., Ph.C. ('10).....Bozeman
 Craig, Vincent Stuart, B.S. (Engineering) ('08).....Long Beach, Calif.

Craig, William O., B.S. ('02).....	Helena
Craighead, Edwin Boone, Jr. B.A. (Law) ('15).....	Missoula
Crawford, Isaac Samuel, B.A. (Law) ('15) LL.B. ('16).....	Helena
Cronk, May Opal, B.A. (Latin) ('10).....	Townsend
Cronk, Ruth Elizabeth, B.A. (Literature) ('15).....	Townsend
Cronkrite, Caroline Harrington (Mrs. C. T. DeWitt Grubbs) B.S. ('00).....	Cleveland, Ohio
Crosby, Spencer J., Ph.C. ('11).....	Anaconda
Culmer, Orpha Ann, B.A. (Mathematics) ('14) M.A. ('15).....	Ann Arbor, Mich.
Cunningham, Ida May (Mrs. R. E. Bush) B.A. (Literary) ('09).....	Missoula, Mont.
Cunningham, Orin D., M.A. (Chemistry) ('15).....	Buffalo, N. Y.
Daniels, Phillip X., B.A. (Law) ('18).....	Anaconda
Davidson, Arthur George, B.S. (Engineering) ('08).....	Anaconda
Davis, Anna E. (Mrs. Gordon Watkins) B.A. (English) ('15).....	610 S. Matthews St., Urbana, Ill.
Davis, Dorothea C., B.A. (Economics and Sociology) ('16).....	Bureau of Labor Statistics, 1212 F. St., N. W., Washington, D. C.
Dawe, William H., Ph. G. ('18).....	Butte
Dennis, Eunice, B.A. (English) ('16).....	Lavina
DeRyke, Florence, B.A. (Literature) ('12).....	1952 E. 81st St., Cleveland, Ohio
DeSmith, Montgomery, B.S. (Engineering) ('07).....	Choteau
Deuel, Homer Roswell, B.S. (Engineering) ('10).....	917 Shattuck Ave., Berkeley, Calif.
Dickey, Carl Chandlee, B.A. (History and Economics) ('14).....	New York, N. Y.
Dickinson, William Oran, B.S. ('05).....	Missoula
Dietrich, John Maurice, B.A. (Economics) ('18).....	Helena
Dimmick, Charles Scovill, B.S. (Engineering) ('07).....	Anaconda
Dinsmore, Oliver Raymond, B.S. (Engineering) ('11).....	C. M. & St. P. Ry., Milwaukee, Wis.
Dion, Frederick Eugene, B.S. (Engineering) ('07).....	Glendive
Dixon, Virginia, B.A. (History) ('17).....	Missoula
Dobson, Cecil Frank, B.S. (Engineering) ('13).....	Florence
Donohue, Dorothy Agnes (Mrs. James Murray Brown) B.A. (English) ('18).....	Missoula
Dornblaser, Paul Logan, LL.B. ('14) (Deceased, Oct. 8, 1918).....	
Douglas, Earl (B.S. Iowa State College) M.S. ('99).....	Carnegie Institute, Pittsburgh, Pa.
Drenckhahn, Esther Catherine, B.A. (Botany) ('18).....	Augusta
Drinville, James, Ph.C. ('10).....	Deer Lodge
Dunbar, Dales A., Ph.G. ('16).....	Red Lodge
Duncan, Marian Agnes, B.A. (Latin and Greek) ('17).....	Collins
Duncan, Stella Louise (Mrs. Malloy) B.A. (Classical) ('07).....	Spokane, Wash.
Dwyer, Cecile Katherine (Mrs. John McGraw) B.A. (Literary) ('09).....	Forsyth
Eidell, Isma Caroline (Mrs. H. H. Slaughter) B.A. (Literature) ('11).....	Ft. Wright, Wash.
Ellinghouse, Bertha Ellen, B.A. (History) ('18).....	Latah, Wash.
Elrod, Mary, B.S. (Biology) ('11).....	Missoula
Ervey, Florence Editha (Mrs. Gilbert J. Heyfron) B.A. (Classical) ('07).....	Missoula
Evans, Mary P., B.A. (Classical) ('06).....	Livingston
Fairchild, Lillian Fay, B.A. (Latin) ('18).....	Townsend
Farmer, Charles Frederick, B.S. (Engineering) ('09).....	Missoula

- Farrell, Katherine H., B.A. (History) ('18).....Carpenter Creek
 Farrell, Thomas Joseph, Jr., B.A. (Literary) ('07).....Missoula
 Faust, Hilda, B.A. (Home Economics) ('15).....East Lansing, Mich.
 Featherman, Linda Ellen (Mrs. J. E. Meyers) B.A. (Literary) ('07)
 Drummond
 Feighner, Margery Winnifred, B.A. (Literary) ('08).....
 Felker, Preston Richard, B.A. (Education) ('18).....Superior
 Fenn, Lloyd A., LL.B. ('17).....Chico, Cal.
 Fergus, Mary Monica (Mrs. David A. Hoffman) B.A. (Literary)
 ('07)Seattle, Wash.
 Finkelnburg, Addison Y., B.A. (Chemistry) ('17).....Missoula
 Finley, Catherine (Mrs. V. C. Renfro) B.S. (Biology) ('14).....Arlee
 Finley, Phoebe Aditha (Mrs. Carl Gillon) B.A. (Literary) ('08).....
 Ingomar
 Fischl, Louis James, Ph.C. ('14).....Helena
 Fisk, E. E., Ph.C. ('15).....Cut Bank
 Flinn, Grace Serena, B.A. (Classical) ('06).....Missoula
 Foley, Anna Helen, B.A. (History) ('17).....Harlowton
 Forbes, Lucius Elder, B.S. (Physics) ('17).....Ronan
 Forbis, Clarence Jenks, B.S. (Biology) ('12).....Missoula
 Forbis, Hugh Temple, B.S. (Geology) ('11).....Missoula
 Foster, Frances Folsom (Mrs. Frank Bonner) B.A. (Literary) ('10)
 Madison, Wisc.
 Fox, Edna (Mrs. W. J. McCormick) B.A. (Modern Language) ('10)
 Missoula
 Fredell, Ernest W., B.S. (Engineering) ('12).....
102 Tripp-Dragestedt Apts., Butte
 Freeser, Marie Sophie (Mrs. Gene McCarthy) B.S. ('09).....Townsend
 Freeze, Gladys Julia (Mrs. B. H. Murphy) B.A. (History) ('13).....
 Big Sandy
 Friauf, James Byron, B.A. (Physics) ('18).....Missoula
 Gallagher, Merle Cupler, B.A. (Chemistry) ('18).....Wabasha, Minn.
 Garlington, Rufus King, B.S. ('07).....Missoula
 Garlington, Susie (Mrs. E. A. Cole) B.A. (Classical) ('07).....
Mocksville, N. C.
 Garlington, Mabel Alma (Mrs. W. R. Stryker) B.A. (Modern Lan-
 guages) ('13).....Livingston
 Garrigus, Mary Frances, B.A. (Law) ('18) LL.B. ('18).....
(Deceased Nov. 30, 1918)
 Gettys, Florence G. (Mrs. E. Orlo Bangs) B.A. (English) ('17).....
Moscow, Ida.
 Gilbert, Isabel Alice (Mrs. Kenneth Wolfe) B.A. (Latin and Greek)
 ('16)Butte
 Gilchrist, Raleigh, B.A. (Chemistry) ('15).....
1834 Culvert St., N. W., Washington, D. C.
 Gilham, Ralph Edward, B.S. ('07).....Townsend
 Gilliland, Gussie, B.A. (History) ('16).....Butte
 Glancy, Alice Gertrude, B.A. (Literary) ('05).....Italy
 Gleason, Frank Elliott, B.S. (Engineering) ('11).....Florence
 Glenny, Mrs. Helen Robb, B.A. ('98).....
3004 Emerson Ave., Minneapolis, Minn.
 Goddard, Helen (Mrs. Tip Adams) B.A. (Classical) ('08).....Billings
 Goodbourne, Lawrence Edward, B.A. (Classical) ('07).....Roseburg, Ore.
 Goodwin, Helen D., B.A. (English) ('18).....Helena
 Gosman, George M., Ph.G. ('16).....Dillon
 Gough, Nina Pearl (Mrs. Bert Hall) B.A. (Modern Languages) ('12)
Potomac
 Graham, Hugh Alexander, B.S. ('01).....Eureka, Calif.

- Graham, John Wirt, B.A. (Chemistry) ('17).....Nottingham, Penn.
 Graham, Mary Dorothy, B.A. (Latin) ('10).....(Deceased, 1914)
 Greenough, Thomas Leo, B.S. (in M. E.) ('06).....Spokane, Wash.
 Greenwood, Frederick, B.A. (Literary) ('09).....Sth Ave., Spokane, Wash.
 Greenwood, George Herbert, B.A. (Classical) M.A. (Dartmouth
 ('04)443 22d Ave., Spokane, Wash.
 Grush, Delbert L. B.S. (in M. E.) ('06).....Anaconda
 Hamilton, Laura May (Mrs. R. L. Harmon) B.A. (Literary) ('07)
Fargo, N. D.
 Hammer, Walter, B.A. (Literary) ('04).....Hardin
 Hanley, Clarence, LL.B. ('16).....Butte
 Hanon, Jessie (Mrs. Emil Saxl) B.A. (Latin and Greek) ('11).....
Lewistown
 Hansen, Mary, B.S. (Biology) ('11).....Great Falls
 Hansen, Peter E., B.A. (Education and Psychology) ('15).....
Spokane, Wash.
 Hanson, Nettie O., B.A. (English) ('18).....Anaconda
 Hardenburgh, Alice (Mrs. Harold Rounce) B.S. (Biology) ('14).....Sidney
 Hardenburgh, Carrie (Mrs. R. L. Gilham) B.A. (Literary) ('08).....
Townsend
 Hardenburgh, Floyd, B.S. ('06).....Missoula
 Harmon, Ralph, B.A. (Literary) ('07).....Fargo, N. D.
 Harper, Paul T., Ph.G. ('16).....Wolf Point
 Hathaway, Anna Louise (Mrs. W. D. Harkins) B.S. ('99).....
Ellis Ave., Chicago, Ill.
 Hatheway, Fanny (Mrs. John Lucy) B.A. (Classical) ('08).....Missoula
 Hatheway, Miriam, B.A. (Classical) ('03).....Missoula
 Hawk, Hazel S., B.A. (History and Economics) ('15).....Belt
 Haywood, John Ray, B.S. (in Engineering) ('05).....
Raniagva, Chili, S. America
 Hemmick, Ellen Lenore, B.A. (Physical Education) ('17).....
Washington, D. C.
 Henderson, Josephine Mary, B.A. (Literature) ('10).....Philipsburg
 Henderson, Renee Jane (Mrs. M. R. Henderson) B.A. (Literature)
 ('10)Hall
 Herman, Hazel, B.A. (History) ('16).....Walla Walla, Wash.
 Herr, Alice, B.A. (Literary) ('04).....(Deceased)
 Hershey, Elizabeth, B.A. (English) ('17).....Augusta
 Heyward, Gladys Loie (Mrs. Abbot Sylva) B.A. (Literature) ('13)
Kent, Ohio
 Hoblitt, Alvin Bailey, LL.B. ('13).....Missoula
 Hoel, Archie B., B.A. (Chemistry) ('16).....Menominee, Wis.
 Hoffman, Charles Henry, B.S. (Engineering) ('11).....Three Forks
 Hollensteiner, Edna Frances (Mrs. J. T. Tucker) B.A. (Latin) ('10)
LoLo
 Holmes, Esta Rebecca, B.A. (English) ('17).....Victor
 Horst, Leo Stuart, B.A. (Economics) ('16).....Portland, Ore.
 Howell, Roxane (Mrs. J. A. Derge) B.A. (Classical) ('04).....
Salt Lake City, Utah
 Hubert, Ernest, B.S. (Forestry) ('12) M.S. (Botany) ('18).....
Spokane, Wn.
 Huffman, Gladys Marguerite, B.A. (Modern Languages) ('13).....Butte
 Hughes, Ethel Grace (Mrs. Thom E. Davis) B.A. (Modern Lan-
 guages) ('11).....Seattle, Wn.
 Hughes, Herbert H., B.S. ('05) Ph.G. (Chicago School of Pharmacy)
 M.D. (Rush Medical College).....Gresham, Oregon
 Hunter, Birdie Florence (Mrs. R. A. Lathom) B.A. (Mathematics)
 ('12)Columbus

Hutchinson, Anne Elizabeth (Mrs. A. R. Sanders) B.S. (Physics)	Red Lodge
('13)	
Hutter, Anna Jo (Mrs. Hal Van Eaton) B.A. (Literary) ('07)	
..... (Deceased July 10, 1918)	
Ingalls, Mildred Franklin (Mrs. Geo. Stone) B.A. (Modern Lan-	
guages) ('13)	Chicago, Ill.
Irvine, Thomas B., LL.B. ('17)	Perma
Irwin, Bessie, B.S. (Botany) ('12)	Pablo
Jackson, Clifton S., B.A. (History and Economics) ('14)	Lodge Grass
Jacobson, Esther I. A., B.A. (Modern Languages) ('18)	Missoula
Jacobson, Ruby I., B.A. (Modern Languages) ('15)	Missoula
Jenkins, R. D., LL.B. ('17)	Lewistown
Johnson, Florence Matilda (Mrs. J. J. Moore) B.S. ('06)	
..... 5636 Drexel Ave., Chicago, Ill.	
Johnson, Howard A., B.A. (Law) ('16) LL.B. ('17)	Normal, Ill.
Johnson, Laura Seawright (Mrs. Chas. McVey) B.A. (History and	
Economics) ('10)	Regent, N. D.
Johnson, Lloyd M., LL.B. ('16)	Ronan
Johnson, Maud Esther, B.A. ('06)	Long Beach, Calif.
Johnson, Sarah Maude (Mrs. V. A. Mosher) B.A. (History and Eco-	
nomics) ('12)	Arlee
Jones, Frances Margaret (Mrs. John M. Winscott) B.A. (Literary)	
('08)	Great Falls
Jones, Harold Judson, B.S. (Business Admin.) ('17)	Missoula
Jones, John Davis, B.A. ('06)	Forest Service, Washington, D. C.
Jones, John Richard, B.A., LL.B. ('15)	Twin Bridges
Jones, Josie J., B.A. (English) ('18)	Missoula
Jones, Mabel Emily, B.A. (Literary) ('03)	Missoula
Jones, Martin, B.S. ('03)	R. R. 1, Hamilton
Jordan, Lillian F. (Mrs. L. L. Bendon) B.A. (Literary) ('03)	Glendive
Kain, Elsie Maude, B.A. (English) ('18)	Deer Lodge
Kapp, Nora Marguerite, B.A. (Home Economics) ('18)	Toston
Keeran, John F., LL.B. ('17)	Harrington, Wash.
Keiser, Albert, M.A. (English) ('15)	Newberry, S. C.
Kellogg, Daisy (Mrs. Lynn Ambrose) B.A. (Literary) ('07)	Missoula
Kelly, Edward Patrick, LL.B. ('14)	Butte
Kennett, George Hempstead, B.S. (M.D., Rush Medical College)	
('99)	Kellogg, Idaho
Kennett, Helene (Mrs. Geo. Wilcox) B.A. (Literary) ('02)	Missoula
Kent, Hugh, B.S. (Forestry) ('17)	Missoula
Kettlewell, Merle (Mrs. R. A. Ruenauer), B.A. (English and Lit-	
erature) ('15)	Plains
King, Ollie May, B.A. (Fine Arts) ('18)	Geraldine
Kitt, Berney Fred, B.S. (Engineering) ('09)	Missoula
Knowles, Eloise, Ph.B. ('98) (Ph.M., University of Chicago)	
..... (Deceased April 9, 1916)	
Knowles, Lu (Mrs. R. J. Maxey) B.S. ('00)	Missoula
Kramer, Cecil Inice (Mrs. V. T. Mather) B.A. (Mathematics) ('13)	
..... Carter	
LaCaff, Helen (Mrs. Roy Jackson) B.A. (Classical) ('02)	
..... (Deceased Jan., 1910)	
Lamb, Cosette, B.A. (English) ('18)	Washington, D. C.
Lansing, Harold, B.S. (Forestry) ('16)	Missoula
Lapeyre, Benjamin E., Ph.G. ('16)	Great Falls
Lapeyre, Robert, Ph.C. ('13)	Great Falls
Larson, Esther I. A., B.A. (Home Economics) ('18)	Plains
Leaf, Lizzie Beulah (Mrs. Floyd Lorentz), B.A. (Latin) ('18)	
..... Great Falls	

- Leary, Grace Marie, B.A. (Literature) ('15).....Eureka
 Lease, Jessie Fern, B.A. (English) ('17).....Plains
 Leech, Arbie Eugene, B.A. (Economics) ('10).....Dupuyer
 Leech, Florence, B.A. (Modern Languages) ('12).....Dupuyer
 Lennstrend, Tesla Viking, B.A. (English) ('18).....St. Ignatius
 Lenz, Frank J., Ph. G. ('17).....Butte
 Leopold, Rose (Mrs. J. W. Sheedy) B.A. (Modern Languages) ('13)
Kellogg, Idaho
 Lewis, Frank, B.S. (Engineering) ('09).....Missoula
 Lewis, Gladine, B.A. (English) ('13).....Howard
 Lewis, Gladys (Mrs. Payne Templeton) B.A. (English) ('17).....Shelby
 Lewis, Mary (Mrs. W. B. Simpson) B.A. ('01).....Stevensville
 Lewis, Ralph M., B.A. (History and Economics) ('15).....Reno, Nevada
 Lewis, Sue (Mrs. W. A. Thompson) B.A. ('01).....
1802 College Ave., St. Louis, Mo.
 Likes, Lucy, B.A. (Literary) ('03).....Missoula
 Likes, Rella, B.A. (Literary) ('03).....Missoula
 Line, Robert Campbell, B.A. (Economics and History) ('10).....
 (M. A., Harvard University).....Columbus
 Linn, Marguerite, B.A. (Mathematics) ('17).....Henderson
 Little, Eleanor Bertha, B.A. (Fine Arts) ('17).....Marysville
 Little, Nathaniel S., Jr., B.A. (English and Literature) ('15).....
121 N. 21st St., Philadelphia, Pa.
 Logan, Lelia Margaret, B.S. (Biology) ('17).....Anaconda
 Long, William George, B.A. (Law) ('16).....Great Falls
 Longshore, Alice V., B.A. (English) ('18).....Washington, D. C.
 Lovett, Olive Helen, B.A. (Latin) ('10).....Miles City
 Lucy, Abbie Catharine (Mrs. A. Swift) B.A. (Modern Languages)
 ('11).....Missoula
 Lyden, Anna Marguerite, B.A. (Business Administration) ('18).....Dillon
 Lyden, Mabel, B.A. (Mathematics) ('14).....Butte
 Lyng, Jennie Marguerite (Mrs. B. F. Kitt) B.A. (Literary) ('09)
Missoula
 McCall, Donna, (Mrs. John Daly) B.S. (Commerce and Accounting)
 ('16).....Los Angeles, Cal.
 McCall, Minta Lee (Mrs. J. H. Bonner) B.A. (Classical) ('08).....Helena
 McCarty, Edward C., B.S. (Botany) ('16).....Berkeley, Calif.
 McCarty, Roy, Ph.C. ('11) (Mrs. E. H. Williams).....Helena
 McCracken, Helen, B.A. ('99) (M.A., University of Chicago).....
(Deceased April 23, 1919)
 McCullough, Massey Sanderson, B.S. (Geology) ('11).....Missoula
 McCullough, Maude Brooks (Mrs. H. Turner) B.A. (Modern Lan-
 guages) ('12).....Missoula
 McDonald, Agnes, B.A. (Classical) ('02).....Anaconda
 McDonald, Erma Corinne (Mrs. Philip Payne) B.A. (English) ('16)
Colfax, Cal.
 McDonald, Homer, B.S. ('02).....Rio Trento, Provincia Heulva, Spain
 McFarlane, Gertrude Cornelia, B.A. (Modern Languages) ('13).....
Winifred, Alberta, Can.
 McGowan, Charles Stuart, B.A. (Economics and History) ('11).....
Great Falls
 McGreevy, Marguerite May, B.A. (Mathematics) ('18).....Anaconda
 McGregor, Alexander Grant, B.S. (in M. E.) ('02).....Warren
 McGregor, Herman Cole, B.S. (Engineering) ('08).....
383 Wall St., Salt Lake City, Utah
 McGregor, Jennie Andrews, B.A. (Classical) ('07).....Los Angeles, Cal.
 McGregor, Mildred Alene (Mrs. Frederick Fraser) B.A. (Literature)
 ('11).....Saco

McHaffie, Stuart Maxwell, B.A. (Law) ('17)	Missoula
McIntosh, James J., LL.B. ('16)	Forsyth
McJilton, Mamie, B.A. (Fine Arts) ('16)	Potomac
McLaren, Gilbert Drake, B.S. ('09)	Whitehall
McLean, Gladys Ann (Mrs. Ben Clark) B.A. (History and Economics) ('11)	Anaconda
McNamara, Walter Ward, Ph.G. ('16)	Culbertson
McPhail, Helen, B.A. (Classical) ('02)	Mace, Idaho
McPhail, Roy Daniel, B.A. ('06)	Drummond
McPhail, Walter Neil, Ph.C., B.S. (Pharmacy) ('16)	Drummond
McSweeney, Albert, M.A. (Mathematics) ('15)	Stevensville
Maclay, David Lamar, B.A. (Mathematics) ('10)	(Deceased June 17, 1917)
Maclay, Harry David, B.S. (Engineering) ('11)	Lolo
Maclay, Helen (Mrs. John Schroeder) B.A. (Economics) ('16)	Clyde Park
Maclay, Holmes, B.S. (Geology) ('12)	Lolo
Maley, Fanny, B.A. (Literary) ('02)	Missoula
Marcyes, Claud Otto, B.A. (Literary) ('03)	Forsyth
Marsh, Hilda Frances, B.A. (History and Economics) ('15)	Missoula
Marshall, Mary Lucille (Mrs. Hubert B. Deming) B.A. (Modern Languages) ('11)	Marion, Iowa
Mason, Marjorie Estelle (Mrs. Ralph Arnold) B.A. (Modern Languages) ('10)	Missoula
Mason, Milton, B.S. (Engineering) ('12)	Deer Lodge
Mathews, Florence May (Mrs. O. E. Hanssen) B.A. (Literature) ('13)	Missoula
Mathewson, Alice Seabury (Mrs. Ed. Graybiel) B.A. (Mathematics) ('13)	Great Falls
Mathewson, Grace (Mrs. Norman Streit) B.A. (English) ('16)	Arrouchar, Staten Island, N. Y.
May, Avery Faulkner (Mrs. W. O. Dickinson) B.A. (Classical) ('05)	Missoula
Metcalf, Helen Frances (Mrs. Helen Dewey) B.A. (Mathematics) ('13)	Jerome, Idaho
Metlen, Genevieve E., B.A. (Economics) ('17)	Horte
Mills, James Hamilton, B.S. (Engineering) ('07)	Great Falls
Mills, Lydia Jimmie (Mrs. C. H. Rittenour) B.S. ('01)	Plains
Mitchell, Paul L., Ph.C. ('09)	Kansas City, Mo.
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Morehouse, Inez I., B.A. (Journalism) ('18)	Billings
Morgan, Arthur Ivason, B.A. (Literary) ('08)	Berkeley, Calif.
Morris, Abbie F., Ph.C. ('11)	Merced, Calif.
Murphy, May Elizabeth, B.A. (Literary) ('08)	San Diego, Cal.
Murray, Eben Hugh, B.A. ('00)	(Address Unknown)
Murray, Fay Abernathy (Mrs. James Gilly) B.A. ('06)	926 W. Silver St., Butte
Murray, Irene (Mrs. Harold Lansing) B.A. (English) ('16)	Missoula
Myers, Alma Lottie (Mrs. John D. Jones) B.A. ('06)	Washington, D. C.
Nelson, Jennie Irene, B.A. (Latin and Greek) ('18)	Plains
Nesbit, Millard Francis, B.A. (Chemistry) ('15)	Columbia University, N. Y.
Nuckolls, Frances (Mrs. E. P. Kelly) B.A. (Literary) ('07)	Kellogg, Idaho
Nutting, Ruth Amelia, B.S. (Business Admin.) ('17)	Laurel
O'Donnell, Carol (Mrs. Carl Getz) B.A. (Journalism) ('17)	Billings
O'Donnell, Irene Anastasia, B.A. (Latin) ('18)	Billings
O'Flynn, Patricia Agnes, B.A. (English) ('17)	Butte

- O'Hara, Geraldine M., B.A. (Law) ('18)..... Hamilton
 Olander, Emil Theodore, LL.B. ('15)..... Aberdeen, S. D.
 ONeal, Mrs. Glen, B.A. ('13)..... Wisdom
 O'Rourke, Arthur Williams, B.A. (Economics) ('12)..... Helena
 Owsley, Merritt Miner, B.A. (Law) ('15)..... Twin Bridges
 Parmalee, Myrtle May, B.S. (Biology) ('17)..... Conrad
 Paul, Lucile Justin, B.A. (French) ('18)..... Washington, D. C.
 Penman, Daisy Marjorie (Mrs. John Logan) B.A. (Latin) ('10).....
 Columbus
 Perry, Howard James, B.A. (Journalism) ('17)..... Butte
 Phillips, Mrs. Alice Martin, B.A. (English) ('16)..... Missoula
 Pixley, Charles, B.A. ('99) (M.D., Rush Medical College)..... Missoula
 Poindexter, Jessie C. (Mrs. Geo. C. Moore) B.A. (English) ('18)
 Harlowton
 Polleys, Georgia Evelyn (Mrs. D. T. Mason) B.A. (Literary) ('04)
 Berkeley, Cal.
 Polleys, William Hovey, B.S. (Engineering) ('07)
 (Deceased Aug. 2, 1910)
 Pope, Lila Mae (Mrs. Donovan Worden) B.A. (English) ('17)..... Missoula
 Porter, Ruth E., B.A. (Mathematics) ('18)..... Libby
 Powell, Gregory Samuel, B.A. (History and Economics) ('16)..... Bozeman
 Pratt, Edna Crete (Mrs. J. F. Carlton) B.A. (Literary) ('09).....
 520 S. 26th St., Omaha, Nebraska
 Prescott, Doris, B.A. (English) ('18)..... Hamilton
 Prescott, Ernest M., B.A. (English) ('18)..... Superior
 Prestbye, Emin Christian, B.A. (Law) ('18) LL.B. ('18)..... Kalispell
 Pride, Elsie Maude, B.S. (Home Economics) ('17)..... Missoula
 Pride, Vera, B.A. (English) ('16)..... Y. W. C. A., Great Falls
 Railsback, Jessie, B.A. (Psychology and Education) ('18).....
 (Deceased Oct. 17, 1918)
 Rankin, Edna (Mrs. John McKinnon) B.A. (Law) ('16) LL.B. ('18)
 Florence
 Rankin, Grace Evelyn (Mrs. Tom Kinney) B.A. (History and Eco-
 nomics) ('12) Warland
 Rankin, Harriet Laura (Mrs. Oscar Sedman) B.A. (Classical) ('03)
 Washington, D. C.
 Rankin, Jeannette Pickering, B.S. ('02)..... Washington, D. C.
 Rankin, Mary Frances (Mrs. Bert Bragg) B.A. (Classical) ('09).....
 Colfax, Wash.
 Rankin, Wellington Duncan, B.S. ('03)..... Helena
 Reardon, Stephen James, B.S. (Engineering) ('11)..... Butte
 Reator, Anna L., B.S. (Commerce and Accounting) ('16)..... Great Falls
 Reely, Marguerite Grace, B.A. (English) ('17)..... Deer Lodge
 Rehder, Annabelle, B.A. (Modern Languages)..... Superior
 Reid, Edgar Paul, LL.B. ('17)..... Royalton, Virginia
 Rennick, Percy Shelley, B.Ph. ('00) (M.D., Kentucky Medical Col-
 lege) Stevensville
 Rhoades, Bess Ann (Mrs. Ernest Hubert) B.A. (Literature) ('15).....
 Spokane
 Richards, Dudley David, B.S. (Geology) ('12)..... Missoula
 Richardson, Wm. Donald, B.S. (Forestry) ('17)..... Steubenville, Ohio
 Rigby, Eloise (Mrs. R. C. Durnford) B.A. ('03)..... Florence
 Rigby, Ida, B.A. (Literary) ('03)..... (Deceased Feb. 19, 1904)
 Riordan, Benjamin R., B.A., LL.B. ('17)..... Nampa, Ida.
 Robb, Josie May (Mrs. Joseph Lynch) B.A. ('06)..... Burley, Idaho
 Robertson, Annabelle (Mrs. Walter Marshall) B.A. (Latin and
 Greek) ('12)..... (Deceased Oct. 27, 1918)
 Robertson, A. J., B.A. (Law) ('16)..... St. Paul, Minn.

- Robinson, Lloyd W., Jr., LL.B. ('16).....Great Falls
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 Rolfe, Lucia Ione (Mrs. Chas. Pierre) B.A. (Latin and Greek)
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 Ronan, Katherine (Mrs. E. C. Trask) B.A. (Classical) ('02).....
 Copperopolis, Cal.
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 Ross, Marjorie (Mrs. Howard Toole) B.A. (Modern Languages)
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 Ryan, William Emmett, B.S. (Geology) ('12)....(Deceased Nov. 11, 1918)
 Saner, Grace Yates, B.A. (English) ('14).....St. Ignatius
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 Schug, Harry Penman, B.A. (Education and Psychology) ('16).....Nelson
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 Scott, Pearl (Mrs. Fritz Kroger) B.A. (Classical) ('02).....Philisburg
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 Selfridge, Bernice (Mrs. L. E. Forbes) B.A., LL.B. ('15).....Ronan
 Sestak, Bessie, B.A. (English) ('16).....Missoula
 Sestak, Rosa, B.A. (English) ('16).....Williams
 Sewell, Harry Fisher, LL.B. ('15).....Conrad
 Sheedy, Christopher C., Ph.C. ('15).....Iowa City, Iowa
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 Shope, Irene, (Mrs. Philip H. Parrish) B.A. (History) ('17).....
(Deceased March 3, 1919)
 Shull, Florence Josephine (Mrs. Henry Haxo) B.A. (History) ('15)
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 Shull, Mary Patience (Mrs. Ross E. Lemire) B.S. (Botany) ('13)
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 Shunk, Shirly Belle (Mrs. Lloyd Fenn) B.A. (History and Econom-
 ics) ('12).....Koonskia, Ida.
 Sibley, Frances, (Mrs. Lorenz) B.A. (Literary) ('05).....Berkeley, Cal.
 Siedentopf, Marie Charlotte, B.A. (Modern Languages) ('17).....Miles City
 Silloway, P. M., M.S. ('13).....Lincoln, Ill.
 Simons, Charles Edward, B.A. (Classical) ('05).....Missoula
 Simpkins, Claude, B.A. (Chemistry) ('16).....(Deceased Sept. 18, 1918)
 Simpkins, Edward, B.S. (Forestry) ('17).....Missoula
 Simpson, Bertha (Mrs. Dr. W. H. Harrison) B.Ph. ('01).....Missoula
 Simpson, Blanche (Mrs. Frank Borg) B.A. (Literary) ('05).....Missoula
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 Sleeman, Florence, B.A. (History and Economics) ('12).....Missoula
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 Smith, Ellsworth G., LL.B. ('14).....Missoula
 Smith, George Templeman, Ph.G. ('16).....Butte
 Smith, Helen Mary, B.A. (Modern Languages) ('14).....Great Falls

- Smith, Louise Elizabeth (Mrs. C. F. Dobson) B.A. (Modern Languages) ('13).....Florence
- Smith, Ralph Wallace, B.S. (Engineering) ('11).....Avery, Ida.
- Smith, Ruth Lenore (Mrs. T. S. Houston) B.A. (Classical) ('08).....
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- Solberg, Harold G., Ph.C. ('13).....Great Falls
- Spaulding, Thomas Claude, B.S. ('06) (M.S.F., Univ. of Mich.).....
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- Speer, Earl LeRoy, B.A. (History and Economics) ('14).....Quincy, Mich.
- Speer, James Beryl, B.A. (Literary) ('08).....Missoula
- Speer, Owen D., B.A. (Mathematics) ('16).....Deer Lodge
- Spencer, Clarissa Elinor (Mrs. Lewis M. Keene) B.A. ('08).....
Kennewick, Wash.
- Spencer, Harvey George, B.S. (Chemistry) ('11).....Missoula
- Stabern, Suzanne (Mrs. Geo. F. Graham) B.A. (Mathematics) ('13).....
Boston, Mass.
- Stanley, Edwin J., B.A. (Journalism) ('16).....Butte
- Steele, Mary Edith (Mrs. D. B. McGregor) B.S. (Biology) ('11).....
Stevensville
- Stephenson, D. A., LL.B. ('17).....Missoula
- Stephenson, Evelyn, B.A. (Education and Psychology) ('15).....
Virginia City
- Stieb, Clyde W., Ph.C. ('13).....Hamilton
- Stoddard, Frederick Thayer, B.S. (Geology) ('10).....Missoula
- Stewart, Benjamin, B.S. ('02).....Sulzer, Alaska
- Stone, Alberta Rae, B.A. (Modern Languages) ('17).....Missoula
- Stone, Emerson, B.A. (Journalism) ('18).....Missoula
- Stone, Mrs. Margaret Garvin, B.A. (Journalism) ('18).....
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- Streit, Joseph William, B.S. ('07).....Missoula
- Streit, Norman, B.S. (Commerce and Accounting) ('16).....Missoula
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- Summers, Margaret, B.A. (Literary) ('06).....Missoula
- Sutherland, Kathryn Janie, B.A. (English) ('16).....Great Falls
- Swearingen, Hazel M., B.A. (English) ('17).....Choteau
- Tait, William James, B.S. (Engineering) ('10).....621 Diamond St., Butte
- Teagarden, Irene, B.S. (Home Economics) ('15).....Missoula
- Templeton, Payne, B.A. (Law) ('16).....Shelby
- Thelin, Ernest Frederick, M.A. (Education) ('17).....Sugargrove, Pa.
- Thieme, Florence Ethel (Mrs. Ray Hamilton) B.A. (Classical) ('09).....
Missoula
- Thieme, Fred E., B.S. (Engineering) ('12).....Missoula
- Thomas, Evalyn, B.A. (Modern Languages) ('17).....Judith Gap
- Thompson, Iva Blanche, Ph.G. ('16).....Anaconda
- Thompson, Oscar James, LL.B. ('13).....Circle
- Tope, Joseph C., A.B. (Law) ('15) LL.B. ('16).....Terry
- Tow, William Melton, M.A. (Economics) ('15).....Judith Gap
- Tuchscherer, Viola, B.A. (English) ('18).....Ronan
- Uline, Augusta Diana (Mrs. Arthur F. Grove) B.S. (Botany) ('15).....
Rochester, Minn.
- Urey, Harold Clayton, B.S. (Biology) ('17).....
The Barrett Co., Frankford, Philadelphia
- Valentine, Charles P., Ph.C. ('10) B.S. ('17) (Pharmacy).....Helena
- Van Eman, William Montgomery, B.S. (Engineering) ('09).....Augusta
- Van Engelen, Beulah (Mrs. Douglas P. Lucas) B.S. (Biology).....
(12).....Missoula
- Van Vliet, Ethel May, B.S. (Biology) ('17).....Camas
- Wagy, Debora (Mrs. J. Lee Sedwick) B.A. ('06).....Chinook

- Walker, Sidney Elery, B.S. ('00) (LL.B., University of Michigan)
 (Address Unknown)
- Waltemate, Beulah, B.A. (History) ('18).....Ronan
- Walters, Ray Epperson, B.A. (Classical) ('05).....Larson, Idaho
- Wanderer, Myrtle May, B.A. (Mathematics) ('18).....Boulder
- Ward, Clarence T., LL.B. ('17).....Pocatello, Idaho
- Ward, Ruth (Mrs. D. I. Grush) B.A. ('06).....Anaconda
- Ward, Sidney Mire, B.Ph. ('01).....Hamilton
- Warren, DeWitt Cregier, B.A. (History and Economics) ('12).....Sidney
- Warren, Lillian, B.A. (Classical) ('07).....(Deceased Feb. 22, 1908)
- Watkins, Gordon, B.A. (History and Economics) ('14).....
Univ. of Illinois, Urbana, Ill.
- Watson, Edith (Mrs. C. H. Keel) B.A. (Classical) ('02).....Red Lodge
- Wear, Helen, B.A. (Latin and Greek) ('12).....Helena
- Weidman, Henry Raymond, LL.B. ('14).....Kalispell
- Weiss, Ralph H., Ph.G. ('17).....Missoula
- Welch, Alice Brown, B.A. (Literary) ('07).....San Diego, Calif.
- Wells, Lansing Sadler, B.A. (Chemistry) ('15).....Champaign, Ill.
- Wells, Roscoe Ward, B.A. (Economics) ('13).....Dallas, Texas
- Wenger, Edward Angus, B.S. (Engineering) ('08).....Anaconda
- Wenzel, Harry E., B.S. (Commerce and Accounting) ('16).....
Fond du Lac, Wis.
- Westby, George Cutler, B.S. (in M. E.) ('01) M.S. ('09).....Ely, Nevada
- Wharton, Caroline Pack (Mrs. Edgar Wilde) B.S. (Biology) ('12)
Southern Cross
- Whipple, Gertrude A., B.A. (Modern Languages) ('12).....Harlowton
- Whisler, Fred Herbert, B.S. (Forest Engineering) ('15).....Missoula
- Whitaker, Helen Margaret (Mrs. Chas. Donnelly) B.A. (Modern
 Languages) ('10).....Seattle, Wash.
- Whitaker, Jocelyn Alfred, B.S. (Botany and Forestry) ('14).....
Victoria, B. C.
- White, Wellington Irwin, B.S. (Forestry) ('18).....Conner
- Whitesitt, Roy Newton, B.A. (Literary) ('08).....Stevensville
- Whiting, June, B.A. (Literature) ('14).....Livingston
- Wilde, Bessie May (Mrs. R. G. Bailey) B.A. (Modern Languages)
 ('14).....Missoula
- Wilhelm, Helda, B.A. (Modern Languages) ('17).....Seattle, Wn.
- Williams, Edward, B.A. (Classical) ('05).....Hotel Lenox, Portland, Ore.
- Williams, Lillian (Mrs. Charles Kelly) B.A. (Literature) ('11).....
Deer Lodge
- Wilson, Irma, B.A. (Latin and Greek) ('16).....Conrad
- Wilson, Katherine Clara, B.Ph. ('01).....E. Aurora, N. Y.
- Wilson, Roy Arthur, B.S. ('16) M.A. ('17) (Geology).....Missoula
- Winnighoff, Wilford Joseph, B.S. (Chemistry) ('10).....Hoboken, N. J.
- Winstanley, Edward Alexander, B.S. (Geology) ('12).....Los Angeles, Cal.
- Woehner, Walter A., Ph.C. ('17).....Missoula
- Wolpert, Ferdinand S., B.A. (Botany) ('18).....Stanford University, Cal.
- Woodward, Henry Guy, M.A. (Mathematics) ('15).....Frankfort, Mich.
- Wright, Alice Anne, B.A. (Literary) ('09).....Missoula
- Wright, Mary Della, B.A. (Biology) ('18).....Buffalo
- Young, Donald B., A.B. (History and Economics) ('15).....Superior
- Young, Earl, Ph.C. ('10).....Great Falls
- Young, Harold C., Ph.G. ('18).....Bozeman

HONORARY DEGREES CONFERRED

1901

Thomas H. Carter, LL.D.....(Deceased, Sept. 17, 1911)
United States Senator.

1902

Joseph K. Toole, LL.D.....Helena
Ex-Governor of Montana.

1904

Hiram Knowles, LL.D.....(Deceased, April 7, 1911)
United States Judge.

1909

Howard Taylor Ricketts, LL.D.....(Deceased, May 3, 1910)
Professor, University of Chicago.

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