Montana State University

COLLEGE OF ARTS AND SCIENCES, SCHOOLS OF BUSINESS ADMINISTRATION, EDUCATION, FORESTRY, JOURNALISM, LAW, MUSIC, PHARMACY, AND THE GRADUATE SCHOOL

CATALOGUE NUMBER
For 1935-1936

INCLUDING ANNOUNCEMENTS FOR 1936-1937

MISSOULA, MONTANA
JUNE, 1936

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

H. H. Swain, Executive Secretary of the University

The University of Montana is constituted under the provisions of Chapter 92 of the Laws of the Thirteenth Legislative Assembly, approved March 14, 1913 (effective July 1, 1913).

The general control and supervision of the University are vested in the State Board of Education. For each of the component institutions there is a local executive board.

Montana State Board of Education

Elmer Holt, Governor................Ex-Officio President
R. T. Nagle, Attorney General...............Ex-Officio
Elizabeth Ireland, Supt. of Public Instruction........Ex-Officio Secretary
Frank Eliel, 1937........Dillon
A. O. Gullidge, 1937........Baker
Wallace Brennan, 1938.Missoula
Emmet J. Riley, 1938........Helena
W. M. Johnston, 1938.....Billings
Carl D. Borton, 1939.......Glasgow
E. C. Carruth, 1940.......Hayre
W. S. Davidson, 1940......Bozeman

The University comprises the following institutions, schools and departments:

Montana State University, Missoula

Established February 17, 1893, and consisting of
The College of Arts and Sciences
The School of Law
The School of Pharmacy
The School of Forestry
The School of Journalism
The School of Music

George Finlay Simmons, President

Montana State College, Bozeman

Established February 16, 1892, and consisting of
The College of Agriculture
The College of Engineering
The College of Applied Science
The College of Household and Industrial Arts
The School of Music
The Secondary School of Agriculture
The Agricultural Experiment Station
The Agricultural Extension Service

Alfred Atkinson, President

Montana School of Mines, Butte

Established February 17, 1893, and consisting of
The Course in Mining Engineering
The Bureau of Mines and Geology
Francis A. Thomson, President

Montana State Normal College, Dillon

Established February 23, 1893, and consisting of
The Two-years Course
The Four-years Course
Sheldon E. Davis, President

Eastern Montana State Normal School, Billings

Established March 12, 1925, and consisting of
The Two-years Course
Lynn B. McMullen, President

Northern Montana College, Havre

Established March 8, 1913, and consisting of
The Two-years Liberal Arts and Pre-professional Courses
G. H. Vande Bogart, President

For publications and detailed information concerning the different schools and colleges address the Registrar of the particular institution concerned. Communications intended for the Executive Secretary of the University should be addressed to the State Capitol, Helena, Montana.
Montana State University

COLLEGE OF ARTS AND SCIENCES,
SCHOOLS OF BUSINESS ADMINISTRATION,
EDUCATION, FORESTRY, JOURNALISM,
LAW, MUSIC, PHARMACY, AND
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MONTANA STATE UNIVERSITY CALENDAR
1936-37

1936

Spring Quarter
March 24, Tuesday ........................................................ Registration of New Students
March 25, Wednesday ................................................ Instruction Begins
May 13-15, Wednesday to Friday ......................... Interscholastic Track Meet
May 30, Saturday ........................................................ Memorial Day, a Holiday
June 6, Saturday ......................................................... Class Day
June 7, Sunday .............................................................. Baccalaureate Exercises
June 8, Monday, 2:00 p. m. ................................................ Commencement
June 12, Friday, 5:20 p. m. ................................................ Spring Quarter Ends

Autumn Quarter
September 22-26, Tuesday to Saturday ............... Freshman Week and Registration of Freshmen and New Students with Advanced Standing
September 25-26, Friday to Saturday ................ Registration of Former Students
September 28, Monday ................................................ Instruction Begins
November 26, Thursday ................................................ Thanksgiving Day, a Holiday
December 14-17, Monday to Thursday ....................... Examinations
December 17, Thursday, 5:20 p. m. .....Quarter Ends; Christmas Recess Begins

1937

Winter Quarter
January 4, Monday ................................................ Registration of New Students; Instruction Begins
March 15-18, Monday to Thursday ................ Examination Begins
March 18, Thursday, 5:20 p. m. ................................................ Winter Quarter Ends

Spring Quarter
March 23, Tuesday ........................................................ Registration of New Students
March 24, Wednesday ................................................ Instruction Begins
May 12-14, Wednesday to Friday ......................... Interscholastic Track Meet
May 31, Monday ........................................................ For Memorial Day, a Holiday
June 6, Saturday ........................................................ Class Day
June 7, Monday, 2 p. m. ................................................ Commencement
June 8-11, Tuesday to Friday ...................................... Examinations
June 11, Friday, 5:20 p. m. ................................................ Spring Quarter Ends

Summer Session
June 14, Monday .......................................................... Registration
June 15, Tuesday ........................................................ Instruction Begins
July 5, Monday .......................................................... For Independence Day, a Holiday
August 13, Friday .......................................................... Session Ends

Autumn Quarter
September 21-24, Tuesday to Friday ............... Freshman Week and Registration of Freshmen and New Students with Advanced Standing
September 24-25, Friday to Saturday ................ Registration of Former Students
September 27, Monday ................................................ Instruction Begins
November 25, Thursday ................................................ Thanksgiving Day, a Holiday
December 13-16, Monday to Thursday ....................... Examinations
December 16, Thursday, 5:20 p. m. .....Quarter Ends; Christmas Recess Begins

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

WALLACE BRENNAN (term expires 1938) Missoula-Resident Member
State Board of Education

Executive Board

FREDERICK C. SCHEUCH (ex-officio fall quarter) .................... Missoula
GEORGE FINLAY SIMMONS (ex-officio winter and spring quarters) .......... Missoula
S. J. COFFEE (term expires 1937) ........................................ Missoula
J. F. S. MARSHALL (term expires 1939) .................................... Missoula
J. B. SPEER, Secretary ......................................................... Missoula

Administrative Officers

H. H. SWAIN, Ph.D. .................................................. Executive Secretary of the University of Montana
*GEORGE FINLAY SIMMONS, Ph.D. .................................. President
**FREDERICK C. SCHEUCH, M.E., A.C. ......................... Vice President
RICHARD H. JESSE, Ph.D. .......... Dean of the Faculty and Dean of the College of Arts and Sciences
J. EARL MILLER, Ph.D. .................................................. Dean of Men
MARY ELROD FERGUSON (Mrs.) M.A. ....................... Acting Dean of Women
JAMES B. SPEER, B.A., LL.B. .................................. Registrar and Business Manager
PHILIP O. KEENEN, M.A. ........................................ Librarian
WILLIAM E. MADBROOK, M.A. .......... Director of Public Service Division and Board of Recommendations

The Faculty

ADAMS, HARRY F. .................. Assistant Professor of Physical Education
B.A., Montana State University, 1921.

ADAMS, WINONA .................................. Assistant Cataloguer and Instructor in Library Economy.
B.A., Montana State University, 1926.

AMES, WALTER R. .................. Professor of Education and Psychology
Ph.B., University of Wisconsin, 1917; Ph.M., 1918; Ph.D., 1926.

***ARMSBY, LUCILLE JAMESON (Mrs) ............ Secretary to the President
B.A., Montana State University, 1922.

ARNOLDSON, LOUISE G. (Mrs.) ............ Associate Professor of French
Diplome d'Etudes Francaises de Touraine (Alliance Francaise—Universite de Poitiers), 1914; B.A., University of Utah, 1919;
Docteur de l'Universite de Paris (Lettres), 1934.

ATKINSON, ERNST A. ............ Professor of Psychology
B.A., University of Denver, 1920; M.A., Montana State University, 1922.

BADGLEY, E. KIRK .......... Assistant Professor of Business Administration,
Assistant Business Manager and Athletic Manager
B.A., Montana State University, 1924.

*Beginning January 1, 1936.
**Acting President May 28, 1935-December 31, 1935.
***Secretary to the President and Instructor, Personnel, 1936-37.
BATEMAN, WILLIAM G..................Professor of Chemistry and Chairman of the Graduate School Committee
B.A., Stanford University, 1907; M.A., 1909; Ph.D. Yale University, 1916.

*BATES, ROBERT C.....................Graduate Assistant in Economics
B.A., Montana State University, 1936.

BENNETT, EDWARD E....................Associate Professor of History and Political Science
B.A., University of Kansas, 1916; M.A., University of Wisconsin, 1923; Ph.D., 1925.

**BISCHOFF, PAUL A...............Assistant Professor of Spanish
B.S., Montana State University, 1927; B.A., 1928; M.A., Oberlin College 1932.

BRANTLEY, MRS. THEODORE..................Social Director of North Hall

*BUSEY, MARTHA PHYLLIS.............North Hall Director
B.A., Montana State University, 1934.

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

***CASTLE, GORDON B...............Instructor in Biology
B.A., Wabash College, 1928; M.A., University of California, 1930; Ph.D., 1934.

CHRISTIANSEN, HAROLD C.............Graduate Assistant in Business Administration
B.A., Montana State University, 1934.

CLARK, FAY G..................Professor of Forest Management
B.A., University of Michigan, 1912; M.S.F., 1914.

CLARK, WESLEY P..................Professor of Classical Languages
M.A., University of Richmond, 1904; Diplome d'Etudes Francaises (Universite de Montpeller), 1921; Ph.D., University of Chicago, 1928.

COGSWELL, ANDREW.............Instructor in Journalism
B.A., Montana State University, 1927.

†COLEMAN, RUFUS A..................Associate Professor of English

COOK, IRWIN W..................Professor of Forest Engineering and Director of Forest Nursery
B.S., Washburn College, 1907; M.S.F., University of Michigan, 1910.

CORBIN, FRANCES...............Professor Emeritus of English
B.L., Ohio State College, 1902.

††CORRY, ANDREW V..................Instructor in Humanities
B.A., Harvard University, 1926; B.A., Oxford University, 1929; B.Sc., 1930; M.S., Montana School of Mines, 1931; M.A., Oxford University, 1934.

CROWDER, JOHN B..................Professor of Music
B.A., University of Richmond, 1925.

DAUGHTERS, FREEMAN...........Professor of Education and Dean of the School of Education
B.A., Kansas Normal College, 1896; S.T.B., Philadelphia Divinity School, 1903; M.A., Columbia University, 1915; Ed.D., Intermountain Union College (Honorary) 1933.

*Year 1936-37.
**Associate Professor, 1936-37.
***Assistant Professor of Zoology, 1936-37.
††Leave of absence, 1935-36.
†††Resigned, effective September 1, 1936.
Davison, Stanley...........................................Graduate Assistant in History
B.A., Montana State University, 1932; M.A., 1935.

Deiss, Charles............................................Associate Professor of Geology
B.A., Miami University, 1925; Ph.D., University of Michigan, 1928.

*Duncan, Helen...........................................Accessions Assistant, Instructor in Library Economy
B.A., Montana State University, 1934.

Elrod, Morton J..........................................Professor Emeritus of Biology
B.A., Simpson College, 1887; M.A., 1890; M.S., 1902; Ph.D., Illinois Wesleyan University, 1905.

Feighner, M. Winnifred.................................Assistant Professor of Library Economy and Assistant Librarian
B.A., Montana State University, 1908; B.S., Simmons College, 1909.

**Ferguson, Mary Elrod (Mrs.)........................Acting Dean of Women
B.S., Montana State University, 1911; M.A., Columbia University, 1934.

Fessenden, Douglas A.................................Professor of Physical Education
B.A., University of Illinois, 1925.

Fort, William Beggs.....................................Instructor in Biology
B.S., University of Chicago, 1935.

Foster, Mabel (Mrs.)......................................Graduate Assistant in Mathematics
B.A., Montana State University, 1924.

Freeman, Edmund L......................................Professor of English
B.A., Missouri Wesleyan College, 1915; M.A., Northwestern University, 1924.

Gleason, Helen...........................................Professor of Home Economics
B.S., Columbia University, 1922; M.A., 1927.

***Griffith, Caroline...................................Assistant Business Director of Corbin Hall
B.A., Montana State University, 1931.

Hardy, Charles W........................................Instructor in Journalism

Harrington, Donald......................................Instructor in English
B.A., Montana State University, 1928; M.A., Columbia University, 1933.

†Hawkins, Elvera........................................Assistant Business Director of North Hall
B.A., Montana State University, 1931.

††Hazelbaker, Howard.................................Assistant in Journalism
B.A., Montana State University, 1936.

Heinsch, Marguerite.....................................Instructor in Latin
B.A., Montana State University, 1931; M.A., 1932.

Henrikson, Ernest H....................................Assistant Professor of English
B.A., University of Oregon, 1925; M.A., University of Iowa, 1929; Ph.D., 1932.

†††Hewitt, Barnard W....................................Assistant Professor of English
B.A., Cornell University, 1928; M.A., 1929; Ph.D., 1934.

Hitchcock, C. Leo......................................Associate Professor of Botany
B.A., Pomona College, 1927; M.A., Claremont College, 1929; Ph.D., Washington University, 1931.

*Library Secretary, and Instructor Library Economy, 1936-37.

**Assistant Dean of Women, 1936-37.

***Leave of Absence, 1936-37.

†Corbin Hall Director and Assistant Business Director of Residence Halls, 1936-37.

††Year 1936-37.

†††Resigned, effective September 1, 1936.
Hoffman, Rudolph O. Professor of French Ph.C., State University, Ghent, Belgium, 1910; M.A., University of Wisconsin, 1921; Diplome Superieur d'Etudes de Civilization Francaise (Universite de Paris), 1929.

Housman, Robert L. Professor of Journalism and Executive Head of the School of Journalism B.J., University of Missouri, 1922; M.A., 1925; Ph.D., 1934.

Howard, Joseph W. Professor of Chemistry B.A., Shurtleff College, 1912; M.A., University of Illinois, 1913; Ph.D., 1915.

Jessie, Richard H. Professor of Chemistry, Dean of the Faculty and Dean of the College of Arts and Sciences B.A., University of Missouri, 1902; M.A., Harvard University, 1907; Ph.D., 1909.

Kast, Mattheus Associate Professor of Economics Ph.D., University of Munich, 1924.

Keeney, Philip O. Professor of Library Economy and Librarian B.A., University of California, 1925; Certificate of Librarianship, 1927; M.A., University of Michigan, 1930.

Kirkwood, Maywood Assistant in Military Science and Tactics Staff Sergeant, U.S. Army. Formerly Lieutenant of Infantry, National Army, 1918.

Lake, Richard Graduate Assistant in English B.A., Montana State University, 1934.

Leaphart, Charles W. Professor of Law and Dean of the School of Law B.A., University of Missouri, 1905; M.A., 1906; LL.B., Harvard University, 1913; S.J.D., 1929.

LeClaire, Mrs. A. F. (R. N.) University Nurse

Lennes, N. J. Professor of Mathematics B.S., University of Chicago, 1898; M.S., 1903; Ph.D., 1907.

Lewandowski, Adolph J. Instructor in Physical Education B.S., University of Nebraska, 1931.

Line, Robert C. Professor of Business Administration and Dean of the School of Business Administration B.A., Montana State University, 1910; M.A., Harvard University, 1912.

Little, Edward M. Associate Professor of Physics B.S., University of Washington, 1918; M.S., 1922; Ph.D., University of Illinois, 1926.

*MacArthur, Eleanor South Hall Director B.A., Montana State University, 1939.

Maddock, William E. Professor of Education and Director of Public Service Division and Board of Recommendations B.L., Earlham College, 1894; B.A., Harvard University, 1904; M.A., Stanford University, 1922.

Mansfield, Michael Instructor in History and Secretary of the Committee on Admission and Graduation B.A., Montana State University, 1933; M.A., 1934.

Mason, David R. Professor of Law and Business Administration LL.B., University of South Dakota, 1924; B.A., 1926; S.J.D., Harvard University 1927.

**Matson, G. Albin Assistant Professor of Biology B.A., University of Utah, 1927; M.A., University of Kansas, 1929; Ph.D., Washington University, 1935.

*Year 1936-37.

**Associate Professor of Bacteriology, 1936-37.
MERRIAM, HAROLD G..............................Professor of English and Chairman of the Division of the Humanities
B.A., University of Wyoming, 1905; B.A., Oxford University, England, 1907; M.A., 1911.

MERRILL, ARCHIBALD S............................Professor of Mathematics and Chairman of the Division of Physical Sciences
B.A., Colgate University, 1911; M.A., 1914; Ph.D., University of Chicago, 1916.

MILLER, J. EARL.....................................Professor of History and Political Science and Dean of Men
B.A., University of Kansas, 1910; LL.B., 1912; M.A., University of Illinois, 1914; Ph.D., 1917.

MIRRIELEES, LUCIA B..............................Professor of English
B.A., Stanford University, 1909; Ph.D., 1924.

MOLLERT, CHARLES E. F.............................Professor of Pharmacy and Dean of the School of Pharmacy
Ph.C., University of Kansas, 1904; B.A., Montana State University, 1920; M.S., University of Kansas, 1927.

*MUeller, DOROTHY........................Graduate Assistant in Foreign Languages

**MUHLICK, CLARENCE.........................Nurseryman and Instructor in Forestry
B.A., Montana State University, 1933.

***MURPHY, DENNIS............................Instructor in English
B.A., University of Missouri, 1926; M.A., 1927; Ph.D., State University of Iowa, 1936.

†NELSON, ENOCH W............................Associate Professor of Forestry
B.S., University of Nebraska, 1913; M.A., 1915.

NORRIS, GEORGE B..................Associate Professor of Military Science and Tactics
Major, U. S. Army; General Staff Corps Eligible List; Infantry School, Battery Officers' Course, 1923; Graduate of Command and General Staff School, 1928.

PARRINGTON, VERNON, JR..........................Instructor in English
B.A., University of Washington, 1935.

††PARTOLL, ALBERT..........................Graduate Assistant in Journalism
B.A., Montana State University, 1929; M.A., 1930.

PETERSON, CLARENCE W..........................Assistant in Military Science and Tactics
Sergeant, U. S. Army; Captain of Infantry, Officers' Reserve Corps, U. S. Army

PHILLIPS, PAUL C............................Professor of History and Political Science and Chairman of the Division of Social Sciences
B.A., Indiana University, 1906; M.A., 1909; Ph.D., University of Illinois, 1911.

PINKERTON, KATHRYN............................Graduate Assistant in History and Political Science.
B.A., Montana State University, 1935.

PLATT, ANNE............................Professor of Home Economics
B.S., University of Washington, 1917; M.S., 1927.

POPE, WALTER L..............................Professor of Law
B.A., University of Nebraska, 1909; J.D., University of Chicago, 1912.

RAMSKILL, BERNICE BERRY (Mrs.)................Associate Professor of Music
RAMSKILL, J. H............................Professor of Forest Products
B.A., Montana State University, 1927; M.F., Yale University, 1928.

*Fall Quarter, 1935-36.
***June 1, 1936.
***Year 1936-37.
†Fall, Winter Quarters, 1935-36.
††Assistant, 1936-37.
RICHARDS, LEON........................................Assistant Professor of Pharmacy
Ph.C., University of Washington, 1925; B.S., 1926; M.S., 1928; Ph.D., 1932.

*ROTHERMICH, ALBERT E.--------------------Associate Professor of Military
Science and Tactics
Captain, U. S. Army; Graduate of Infantry School, Company
Officers' Course, 1928; Tank School, 1931; LL.B., LaSalle Extension,
University of Illinois, 1930.

ROWE, JESSE P............................................Professor of Geology
B.S., University of Nebraska, 1897; M.A., 1903; Ph.D., 1906; D. Sc.
(Honorary) 1935.

SANFORD, EMMETT R....................................Professor of Business Administration
B.S., Campbell University, 1894; B.A., Montana State University,
1918; M.A., University of California, C.P.A. (California), 1925.

SCHLUETER, RUDOLPH..............................Instructor in German and History
B.A., Northwestern College, 1921; M.A., University of Wisconsin,
1926; Ph.D., 1934.

SCHEIBER, WILLIAM E...............................Professor of Physical Education
B.A., University of Wisconsin, 1904.

SEVERY, JOSEPH W....................................Professor of Botany and Chairman
of the Division of Biological Sciences
B.A., Oberlin College, 1915; M.S., Washington University, 1926; Ph.D., University of Wisconsin, 1931.

SHALLENGERBERG, GARVIN D....................Professor of Physics
B.S., Oklahoma Agricultural and Mechanical College, 1912; B.S., Tulane University, 1917; M.S., 1919; Ph.D., University of Chicago, 1923.

**SIMMONS, GEORGE FINLAY.......................Assistant Professor of Biology
B.A., University of Texas, 1921; M.A., 1922; Ph.D., University of
Chicago, 1934.

***SMITH, ALLEN K.................................Assistant Professor of Law and
Business Administration
B.A., University of North Carolina, 1927; J.D., 1930; LL.M., Columbia
University, 1931.

SMITH, DELAIS.........Professor of Music and Dean of the School of Music
SMITH, FLORENCE R. (Mrs.).......................Professor of Organ
SMITH, FRANKLIN O.................................Professor of Psychology and Philosophy
B.A., State University of Iowa, 1906; M.A., 1907; Ph.D., 1912.

SMITH, GEORGE L.................................Professor of Military Science and Tactics
Lieutenant-Colonel, U. S. Army; General Staff Corps Eligible List:
Graduate of Infantry School, Advanced Course, 1927, Command and
General Staff School, 1928.

***SNELL, HAMPTON K...............................Assistant Professor of Economics
B.A., University of Wisconsin, 1925; M.A., 1928.

SPAULDING, ALBERT C.............................Graduate Assistant in Economics
B.A., Montana State University, 1935.

†SPAULDING, KENNETH.............................Graduate Assistant in English
B.A., Montana State University, 1936.

*Transferred, August, 1936.
**Fall Quarter, 1935-36; Professor of Zoology and President since January 1, 1936.
***Associate Professor, 1936-37.
†Year 1936-37.
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Education</th>
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</thead>
<tbody>
<tr>
<td>Spaulding, Thomas C.</td>
<td>Professor of Forestry and Dean of the School of Forestry</td>
<td>B.S., Montana State University, 1906; M.S.F., University of Michigan, 1909.</td>
</tr>
<tr>
<td>Speer, James B.</td>
<td>Professor of Business Administration, Registrar and Business Manager</td>
<td>B.A., Montana State University, 1908; LL.B., University of Michigan, 1916.</td>
</tr>
<tr>
<td>Speer, Lucile</td>
<td>Instructor in Library Economy and Assistant Cataloguer</td>
<td>B.A., Montana State University, 1924; M.A., University of Chicago, 1925.</td>
</tr>
<tr>
<td>Stone, Arthur L.</td>
<td>Professor of Journalism and Dean of the School of Journalism</td>
<td>B.S., Worcester Polytechnic, 1884.</td>
</tr>
<tr>
<td>Suchy, John F.</td>
<td>Associate Professor of Pharmacy</td>
<td>Ph.C., B.S., Montana State University, 1917; M.S., University of Colorado, 1927; Ph.D., 1933.</td>
</tr>
<tr>
<td>Swearingen, Monica Burke (Mrs.)</td>
<td>Professor of Home Economics and Director of Residence Halls</td>
<td>B.A., Montana State University, 1918; M.A., Columbia University, 1924.</td>
</tr>
<tr>
<td>Swearingen, Thomas G.</td>
<td>Assistant Professor of Forest Engineering and Maintenance Engineer</td>
<td>B.A., Montana State University, 1920.</td>
</tr>
<tr>
<td>Tascher, Harold</td>
<td>Assistant Professor of Sociology</td>
<td>B.A., University of Illinois, 1925; M.A., 1926; Ph.D., 1932.</td>
</tr>
<tr>
<td>Teel, Stanley</td>
<td>Assistant Professor of Music</td>
<td>B.M., Depauw University, 1925.</td>
</tr>
<tr>
<td>Thomas, Bart E.</td>
<td>Professor of Spanish</td>
<td>B.A., Montana State University, 1924.</td>
</tr>
<tr>
<td>Toelle, J. Howard</td>
<td>Professor of Law</td>
<td>B.A., Indiana University, 1913; LL.B., Columbia University, 1914; M.A., 1916; LL.M., Harvard University, 1925.</td>
</tr>
<tr>
<td>Turner, Mrs. Frank</td>
<td>Social Director of Corbin Hall</td>
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<tr>
<td>Turney-High, Harry</td>
<td>Professor of Anthropology and Sociology</td>
<td>B.A., St. Stephens College, 1922; M.A., University of Wisconsin, 1924; Ph.D., 1928.</td>
</tr>
<tr>
<td>Vinal, Leslie</td>
<td>Instructor in Physical Education</td>
<td>B.A., Montana State University, 1928.</td>
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<tr>
<td>Warford, O. R.</td>
<td>Professor of Religion and Director of the School of Religion</td>
<td>B.A., Central College (Missouri), 1924; S.T.B., Yale Divinity School, 1928.</td>
</tr>
<tr>
<td>*Warne, Martha</td>
<td>Assistant Business Director of South Hall</td>
<td>B.A., Montana State University, 1930.</td>
</tr>
<tr>
<td>Waters, Charles W.</td>
<td>Professor of Botany</td>
<td>B.L., B.S., Berea College, 1919; M.A., Ohio State University, 1921; Ph.D., University of Michigan, 1927.</td>
</tr>
<tr>
<td>Weisberg, A. Herman</td>
<td>Professor of Violin</td>
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</tr>
<tr>
<td>Weisberg, Flora (Mrs.)</td>
<td>Instructor in Modern Languages</td>
<td>B.A., Montana State University, 1928.</td>
</tr>
</tbody>
</table>

*Resigned, effective September 1, 1936.
Special Appointments for Summer Session, 1935

FEE, IRA B., B.A., M.A., Ed.M. Visiting Professor of Education
GARVER, F. H., B.A., M.A., Ph.D. Visiting Professor of History and Political Science
HANNON, OLGA ROSS (Mrs.) Visiting Professor of Fine Arts
MADSEN, I. N., B.S., M.A., Ph.D. Visiting Professor of Education
ROACH, ELIZABETH (Mrs.) Visiting Instructor in Physical Education
SMITH, S. STEPHENSON, B.A., B.Litt. Visiting Professor of English
SPEER, HAROLD Visiting Instructor in Physical Education
TI DBALL, LEWIS C., B.A., M.A., Ph.D. Visiting Professor of Education
WARNER, ROBERT P., B.A., B.Litt. Visiting Professor of English

Special Appointments for Summer Session, 1936

BROOKS, WENDELL S., B.A., M.A., Ph.D. Visiting Professor of Education
FEE, IRA B., B.A., M.A., Ed.M. Visiting Professor of Education
HAPNER, LEORA M., B.A., M.A. Visiting Professor of Education
HOOD, MARQUETE V., B.A. Visiting Lecturer in Music
METCALF, LEON V., B.Mus.Ed., M.Mus. Visiting Professor of Music
NUTTENVILLE, CATHERINE, B.A., M.A. Visiting Professor of Education
PETERSON, MARTIN S., B.A., M.A., Ph.D. Visiting Professor of English
REELY, ANN, B.A. Social Director of Summer Session
TEMPLETON, PAYNE, B.A., M.A. Visiting Professor of Education
THACHER, W. F. G., B.A., M.A. Visiting Professor of English
TI DBALL, LEWIS C., B.A., M.A., Ph.D. Visiting Professor of Education
TWETO, OGDEN, B.A. Visiting Instructor in Geology

Board of Examiners in Certified Public Accountancy

ROSOCOE L. THOMAS, Butte, Chairman
HOWARD C. WALDEN, Helena, Secretary
WILLIAM B. FINLEY, Great Falls

*Year 1936-37.
**Assistant Registrar and Instructor, Personnel, 1936-37.
THE UNIVERSITY OF MONTANA

A congressional grant was made in 1881 of seventy-two sections of the public domain for University purposes in Montana, and an additional congressional grant was made in 1889 of 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 enacted laws in 1893 to establish the State University at Missoula, the State College at Bozeman, the State Normal College at Dillon, and the Montana School of Mines at Butte.

As the lands, or the timber and stone thereon, have been sold, the proceeds have gone into permanent funds, the interest on which, together with rentals of unsold lands, has been used for the support of the respective institutions. Each subsequent Legislative Assembly has voted appropriations to supplement those maintenance resources, and several assemblies have provided for the erection of new buildings.

In 1913 the four institutions were combined into the University of Montana under the executive control of an officer whose title is Chancellor. Edward C. Elliott of the University of Wisconsin, first Chancellor of the University of Montana, was appointed by the State Board of Education in 1915. He held the office until 1923, when he was succeeded by Melvin A. Brannon, former president of Beloit (Wisconsin) College. Dr. Brannon resigned July 1, 1933. Dr. H. H. Swain, executive secretary of the State Board of Education, has his office in the State Capitol, Helena.

The Legislative Assembly of 1927 provided for the organization of the Eastern Montana State Normal School at Billings as the fifth unit of the University of Montana. A sixth unit, the Northern Montana College at Havre, was opened September 24, 1929.

In November, 1930, the voters approved a measure adopted by the twenty-first Legislative Assembly which permits, during the succeeding ten years, an annual levy of a tax not exceeding three mills for maintenance of the University of Montana.

Montana State University

Montana State University, located in Missoula, was formally opened in 1895. The local board was made up of J. H. T. Ryman, Hiram Knowles, and Thomas C. Marshall.

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

Oscar J. Craig of Purdue University was the first president. During his administration, from 1895 to 1908, Montana State University made remarkable progress. The faculty increased from five to thirty, and the proportional increase in the number of students was even greater.
In 1908 Clyde A. Duniway of Stanford University became president, and carried on a policy of vigorous development. The School of Law was established and the Summer Session was made a part of the State University.

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

From 1915 until the summer of 1917, Professor Frederick C. Scheuch, now vice-president and chairman of the Department of Modern Languages, was acting president. Edward O. Sisson, who had been State Commissioner of Education in Idaho, was appointed president in 1917, and served until 1921. Upon Dr. Sisson's resignation, Charles H. Clapp was appointed. He served until his death on May 9, 1935.

Professor Scheuch again served as acting president until January 1, 1936, when the presidency was assumed by Geo. Finlay Simmons, a zoologist and explorer, formerly with the University of Texas and the Cleveland Museum of Natural History, who was engaged in experimental research at the University of Chicago when called to Montana State University in the fall of 1934.

From 1915 to the present time nine new buildings have been erected on the campus, new equipment has been added and old equipment improved. The faculty has increased to ninety, enrollment has greatly increased, courses of instruction have been expanded and strengthened, and scholarship standards have been raised.

Surroundings and Campus. Montana State University is situated at Missoula, county seat of Missoula county, and principal city in Western Montana. The city is easily reached by the main lines of the Northern Pacific and the Chicago, Milwauk ee, St. Paul & Pacific railroads. In addition, there are branch lines from the Coeur d'Alenes, and the Bitter Root and Flathead valleys. Missoula is on the Yellowstone Trail and the International Parks Highway.

Missoula is a pleasant residence city with a population of seventeen thousand. It has an excellent climate and unsurpassed health conditions. Many miles of paved streets and bus lines make the campus of the University accessible from any part of the city. The surrounding country is a beautiful region of mountain ranges, easily reached by rail or auto, and furnishing excellent opportunity for recreation.

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

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

For buildings, see map of campus, page 2.

The Library and Museums. The general library, consisting of about 120,000 volumes and 34,000 pamphlets, is housed in the Library building. Admission to the shelves is restricted to the faculty, administrative officers and graduate students; other students may be admitted upon recommendation of their instructors. Students are allowed to withdraw books from the Library under reasonable regulations.

The Library receives over 600 periodicals, the current numbers of which are available in the reading room, as are newspapers and college exchanges.
The biological collections of Montana State University, established in 1898, are on the second floor of the Natural Science building. Special attention has been given to local fauna and flora of the state.

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

The herbarium is in the Department of Botany, adjoining the museum in the Natural Science building.

The Treasure Room, for valuable historical materials, is on the third floor of the Library building.

The people of the state are invited to inquire about the loan facilities of the Library, to visit the museums, and to make contributions to the Library and museums. All donations will be acknowledged and recorded under the donor's name. The articles will be properly labeled and preserved.

Requirements for Admission

Students applying for admission should send in the following credentials:

(a) An original transcript of high school credits, signed by the principal.
(b) Official transcript from each college attended.
(c) Statement of honorable dismissal from the last college regularly attended.
(d) An application for admission filled out on a form provided by Montana State University.

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

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

General 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, including at least fifteen units of work, is the standard for regular admission. A unit is the amount of work represented by the successful completion of one subject pursued for a school year of not less than thirty-six weeks, with five recitations per week, each recitation period being not less than forty-two minutes net. Two periods of laboratory, shop, or drawing work count as one recitation.

Students entering after September 1, 1927*, must offer three units of English, one of American history and government and at least two other units from each of three of the following groups: (a) mathematics; algebra, plane and solid geometry, trigonometry, general mathematics; (b) history and social science: Greek, Roman, medieval, modern

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*Students who graduated from high school before 1927, but who did not enter college prior to September 1, 1927, will be admitted under the old requirements.
or English history, civics, community civics, economics, sociology, citizenship, economic or industrial history; (c) laboratory science: physics, chemistry, botany, zoology, biology, physiology, agriculture, astronomy, geology, physiography, general science, domestic science; (d) foreign languages.

Note: If the civics is included in the one unit of American history and government, it may not be used to satisfy requirement (b). The two units offered in satisfaction of requirement (d) must be in one language.

Students who have not completed these required courses must: (1) pass an entrance examination in the subject in which they are deficient; or (2) earn eight college credits in the subject in which they are deficient, in addition to any college work in that subject required for a degree. Such credits may be counted toward the degree. Students must remove all entrance deficiencies during their first year of attendance.

Students transferring from other colleges will be required to meet these requirements.

Admission on Certificate

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

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

A dmission by Examination

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

Those who expect to take entrance examinations must notify the Registrar in advance, stating what subjects they desire to offer by examination. For the academic year 1936-37 the examination days are September 17 and 18, and for the winter and spring quarters by special arrangement.

Conditional Admission

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

*These fifteen units must include the required subjects listed on page 15. A student offering foreign languages as a part of his preparation must present at least two units in one language.
Admission Requirements

Admission by Transfer from Other Colleges and Universities

Students from other colleges and universities of recognized standing will be admitted on presentation of certificates from the registrar that they have completed the regular entrance requirements, and are eligible to return. Credit will be given for work of collegiate grade done in other institutions of approved standing. In addition to the transcript of college record, the student must also present a transcript of his secondary school work.

A student suspended or dropped from one of the other institutions of the University of Montana will not be considered for admission without the approval of the president of the institution from which he was suspended or dropped.

Graduates of an approved two-year normal course requiring fifteen units for entrance are admitted to junior standing. Students who complete only part of the two-year normal college course may receive credit in the University for such work of college grade as may be found to represent the equivalent of courses required or permitted as electives in the University.

When credits are accepted from another college, grade points are evaluated at the time of transfer. (See pages 21 and 26.) Students entering with fewer grade points than credits must earn enough additional grade points at Montana State University to satisfy the grade point requirement for graduation. A transfer student must meet the grade point requirement on credits earned at Montana State University as well as on his entire record.

Admission of Special Students

A student 21 years of age or more, not a candidate for a degree, may be admitted without the usual entrance units as a special student if he gives satisfactory evidence that he is prepared to pursue successfully special courses desired. Such a student shall be permitted to continue in Montana State University only in case he carries his work satisfactorily. If it becomes evident that he is unable to carry university work, his relations with the University may be severed at any time. In order to be eligible to register for his fourth or any succeeding quarter as a special student, the sum of his grade points (both positive and negative) must be at least equal to the number of credits for which he has received a grade. (See page 26.)

A special student may acquire status as a regular student and become a candidate for a degree either by taking entrance examinations, or by transferring to entrance credit sufficient credits earned in the University to make up all entrance units required for admission to regular standing, including the subjects listed on page 15. Before the student may register for his seventh quarter of residence, not including summer sessions, he must make up all entrance units required for admission to regular standing. The Registrar's office shall at that time transfer to entrance credit as many University credits as are necessary for such purpose at the rate of eight college credits for one entrance unit. In order to be eligible for a degree from the State University a special student must fulfill the same requirements for graduation as a regular student.

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

A student who, at the end of the quarter in which he acquired 96 credits, has 20 or more credits in excess of positive grade points, shall not be admitted to further work in Montana State University.

Admission to Graduate Standing

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

Requirements for Graduation

Degrees and Certificates

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

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

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

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

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

The degree of Bachelor of Arts in Music or Bachelor of Music with a major in applied music is conferred upon graduates of the School of Music.

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

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

The degree of Bachelor of Science in Pharmacy is conferred upon graduates of the four-year course in Pharmacy.

The University certificate of qualification to teach may be obtained by graduates of Montana State University who meet the requirements set forth in the School of Education.

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

The degrees of Master of Arts, Master of Science in Forestry, Master of Science in Pharmacy and Master of Science with a combined major in Botany and Forestry are granted to those who complete a satisfactory course of one year in work beyond that required for a Bachelor's degree provided they comply with the regulations governing graduate work set forth on page 72.
Candidacy for a Degree

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

Credits Required for Graduation

The work in the State University is named in terms of credit. One credit represents three hours of time per week for one quarter of twelve weeks. The time required for each credit may be distributed in any combination among preparation, recitation, lecture or laboratory work.

Credits Required for a Degree. Candidates for the degree of Bachelor of Arts, Bachelor of Arts in Business Administration, Bachelor of Arts in Education, Bachelor of Arts in Journalism, Bachelor of Arts in Music or Bachelor of Music or Bachelor of Science in Pharmacy are required to complete 180 credits in addition to the required credits in Physical Education. Candidates for the degree of Bachelor of Science in Forestry must complete 186 credits in addition to two summers of approved field work and the regular requirements in Physical Education and Military Science. Candidates for the degree of Bachelor of Laws must complete three years of Law, totaling 126 credits, in addition to the entrance requirements of the School of Law.

Credits Required for a Major. A department or school may require that the major students complete from 40 to 55 credits in the chosen field. Not more than 65 credits in any one department or school may be counted toward graduation. These rulings do not apply in the Schools of Forestry, Journalism, Law, Music, or Pharmacy. Exceptions to these regulations may be made on the basis of entrance credits in the Departments of Modern and Classical Languages and Mathematics. Not more than 65 credits in one foreign language, nor more than 90 credits in all foreign languages, may be counted toward graduation. Not more than 21 credits in Military Science, nor 15 credits in Religion may be counted toward graduation. Except in the School of Music, not more than 12 credits in applied music nor six in ensemble music may be counted toward graduation.

Course Requirements for Graduation

Required Courses. All candidates for the Bachelor's degree must meet the following requirements:

1. Physical Education, 6 quarters (6 credits) required of all freshmen and sophomores less than 27 years of age, unless excused for cause.

2. Military Drill, 6 quarters (6 credits) required of all freshmen and sophomore men less than 26 years of age, unless excused for cause.

3. English Composition, 2 quarters (6 credits). During Freshman Week all freshmen must take a placement examination in English composition. Students who achieve distinction in this examination will be excused from the necessity of taking the first quarter of required composition, 11a, and during their sophomore year may enroll in any of the three courses 11b, 30, or 32. Students failing to attain an acceptable college
standard in this placement examination will be required to take English A without credit during their freshman year before enrolling in English 11a during the sophomore year. Both quarters of required composition, English 11ab, must be taken in the sophomore year, preferably consecutively. No work in required composition, except English A, may be taken in the freshman year. Students who obtain a grade of A in the first quarter of required composition will be exempted from the requirement of the second quarter.

Restricted Elective Courses. All candidates for the Bachelor's degree, except candidates for the degree of Bachelor of Laws or Bachelor of Science in Forestry, must meet the following requirements, unless otherwise indicated:

(1) Two of the following general courses must be completed: Social Science 11abc, Biological Science 13, Humanities 15abc, Physical Science 17. These two courses must be selected outside the field of major interest. Completion of these courses also satisfies the requirements listed under (3), (4), and (5) below.

(2) Foreign language, 5 quarters (23 to 25 credits) in one language or a reading knowledge of it, subject to the following conditions:

Entrance credit in foreign language may be offered in satisfaction of this requirement, one unit being regarded as equivalent to two quarters of university work. Thus students who enter with one unit of language are normally required to complete only three quarters of the same language in the University; those who enter with two units, one quarter; and those who enter with three or more units in one foreign language shall be regarded as having fulfilled all foreign language requirements for graduation upon passing a reading test at the University. However, all students desiring to offer entrance credit in fulfillment of or toward this requirement or who wish to take further work in a language offered for entrance must take a placement examination preferably at the time of entrance, during Freshman Week. Those who are found by the placement examination to be unprepared for the class for which they are normally eligible will be placed in a lower class; such students may receive credit for only one quarter of a foreign language below the class for which their entrance credits would normally prepare them.

A reading knowledge of a foreign language at the level of attainment expected of a student who has passed at least four quarters in a foreign language as demonstrated by a suitable achievement test will be accepted as satisfying the foreign language requirement for graduation.

Foreign languages will not be required in the Schools of Business Administration, Education, Journalism, and Music.

(3) Zoology, Botany, Chemistry, Geology, Mathematics, Physics: 3 quarters (12 credits, eight of which must be in one science or in mathematics) or one of the general courses, Biological Science 13, Introduction to Biological Science, and Physical Science 17, Introduction to Physical Science. The combined sciences for high school and the University must include not less than two different sciences of this group. In each of these two sciences the student must offer not less than one unit or eight credits. With the exception of the two general courses, science subjects in which laboratory work is not re-
Elective Courses. The remainder of the credits required for graduation after the restricted electives and the divisional and major requirements have been completed are free electives.

Divisional, Departmental and School Requirements for Graduation
All candidates for a Bachelor's degree must comply with any requirements announced by the college or school from which the degree is to be granted, in addition to the general requirements included under "Requirements for Graduation."

Grade Points Required for Graduation
A candidate for a degree or certificate granted by Montana State University must obtain a number of grade points at least equal to the number of credits earned on courses taken to the end of the quarter in which he earns his 96th credit (i.e., freshman and sophomore years). This is equivalent to an average grade of C in all courses for which he has received credit. Grade points are computed as follows: 3 grade points for each credit of A; 2 grade points for each credit of B; 1 grade point for each credit of C. In a subject in which an "incomplete" grade has been received, grade points are counted only after the incomplete has been removed.

In the period succeeding the quarter in which the student receives his 96th credit (i.e., junior and senior years), he must obtain as many grade points as credits for which he has registered. Courses dropped without a grade (i.e., courses in which a "W" is given) are not counted. Courses graded F (failure), I (unremoved incomplete), E (condition), are given one negative grade point (-1) per credit. The negative grade points must be subtracted from the positive grade points earned to determine the number of grade points acquired toward meeting this requirement. In the case that a student who has failed to make a C average during the first period is admitted to the second period (see page 18), he must make up the deficiency under the regulations which are in force during the second period. However, deficiencies made in the second period cannot be removed by applying excess grade points earned in the first period.

When credits are accepted from another institution, grade points are evaluated at the time of transfer; however, a student must meet the above requirement on credits earned at this University as well as on his entire record.

Residence Requirements for Graduation
1. One year of residence, or four summer sessions of nine weeks each, at Montana State University, during which the student must complete forty-five credits of college work, is the minimum requirement.
2. Thirty-five of the last forty-five credits required for graduation must be earned in residence in the University.

3. Not more than forty-five credits earned by correspondence study may be counted toward graduation.

Senior Examinations

1. All students, before receiving the Bachelor's degree from Montana State University, may be required by the school or department in which they are majoring, to pass a special examination to be known as "Senior Examination" covering the field of concentration. Such examination shall not in any way replace the regular quarterly examination except that departments adopting these Senior Examinations may excuse their major students during the senior year from regular quarterly examinations in major department subjects. Each department or school must announce its intention with regard to Senior Examinations in the annual catalogue.

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

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

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

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

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

Senior Examinations for Honors

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

Not later than the junior year, every student must choose a major department or school. Regular students are required to follow a curriculum so that they will normally complete all the required courses and restricted electives by the end of their junior year. A student's registration is subject to the approval of an appointed faculty adviser until choice of a major department or school has been made; after this choice, the head of the department or school selected becomes the adviser.

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

Rules Regarding Registration. Students in all divisions of Montana State University, except those registered in an approved curriculum shown in a Division or School, must follow the regulations outlined in the following table:

<table>
<thead>
<tr>
<th>Classification of Student</th>
<th>Number of Courses Allowed*</th>
<th>Restricted Elective Requirement (See page 19)††</th>
<th>Maximum Credit**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshmen</td>
<td>3</td>
<td>2 courses from 2 different groups</td>
<td>15 + 2 Cr. Applied Music†</td>
</tr>
<tr>
<td>Sophomores</td>
<td>4</td>
<td>1 course</td>
<td>17 + 1 Cr. Applied Music†</td>
</tr>
<tr>
<td>Juniors</td>
<td>no limit</td>
<td>1 course until requirements are completed</td>
<td>16</td>
</tr>
<tr>
<td>Seniors</td>
<td>no limit</td>
<td>1 course until requirements are completed</td>
<td>16</td>
</tr>
</tbody>
</table>

*Exclusive of the required physical education and military science and optional applied music. Two courses in fine arts or theoretical music to a maximum of 5 credits are counted as one course.

**Juniors or seniors of distinctive ability may be permitted, by their adviser, to register for 18 credits.

†The additional work in applied music allowed only when the student maintained a C average during the previous quarter in residence.

††During a quarter in which a student is registered for required English, he may register for one less than the normal number of restricted elective courses.

Scholarship and Conduct

The University requires all its students to conform to the usual standards of society and law-abiding citizenship, and to manifest a serious purpose by maintaining satisfactory standing in the courses which they undertake. No student is permitted to continue his connection with the University who shows persistent unwillingness or inability to comply with these requirements.
The Student Handbook, which is published for the guidance of students, is an official memorandum of requirements. The student is held responsible for a knowledge of its contents.

Deans of Men and Women

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

Social Functions of the University

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

Advisers

Upon registration at Montana State University, each student is assigned to a faculty adviser. The assignment is made on the basis of the student's probable field of major endeavor. The adviser assists the student in the selection and arrangement of his course of study, and acts in an advisory capacity only; his approval of a student's registration does not legalize a change in faculty rules. In the professional schools the deans act as advisers of the students. In the College of Arts and Sciences, after the student has selected a major department (at the beginning of his junior year) the chairman of that department regularly becomes his adviser throughout his university work. The adviser is always ready to counsel with the student in any matter, whether or not directly connected with his work in the institution. The University rule requires that the student shall consult his adviser at the beginning of each quarter, but consultation should be more frequent. The adviser is consulted by the administrative authorities of the University in matters of discipline affecting a student under his supervision.

Freshman Week

The first week of the autumn quarter is set aside exclusively for freshmen. They register during that week and are given the opportunity to become acquainted with the ways of university life; instruction in the use of the library is given, and everything practicable is done to prepare the freshman for his college course. No regular classes are held.

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

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

The residence halls for women, one of which is reserved for freshmen, enable the Dean of Women and the social directors to give that personal attention to the individual girl which characterizes the freshman dormitory plan.

The sorority houses, in which many upper class women reside, are under the immediate social supervision of a housemother whose appointment is made with the approval of the Dean of Women. The private homes in which upper class girls obtain rooms must be approved.

All women in the University are members of the Associated Women Students, an organization which has general direction of matters pertaining to student life not under the direct supervision of the faculty. This Association also has charge of many of the campus activities carried on by the women students, including the Big Sister Movement, the May Fete and the Co-ed Prom.

Student Marriages

Any marriage, either party to which is a student of Montana State University, must be publicly announced. For this purpose notice of the marriage must be promptly filed with the Registrar. Any attempt to keep the fact of the marriage secret will result in indefinite suspension effective from the date of the marriage.

All students on matriculation must indicate on the entrance blank whether married or single. Falsification or willful suppression of any information called for on the blank will be ground for cancellation of matriculation.

Attendance

Work which a student has missed through absence must be made up as his instructors direct.

All students compelled to be absent from Missoula should report their intended absence in advance to the Dean of Men, the Dean of Women, or to the Registrar.

Absences incurred when a student is on assigned departmental activity or representing the University in extra-curricular activities will be reported by those in charge of the activity.

Eligibility Rules

Montana State University is a member of the Pacific Coast Intercollegiate conference, and its rules, as approved by the Faculty, govern all intercollegiate athletic contests.

Scholarship Grades

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

A—Work of the best grade; B—work better than average; C—average work; +—pass without defining grade; D—work below average, but of barely passing grade; E—condition; F—failure.

If all the work in a course has not been done and there is sufficient reason for this, the grade I, which carries with it one of the four passing grades, is given. This incomplete work must be completed not later than one calendar year after the incomplete grade was assigned.

In continuous courses, if a grade of F is given, the student's connection with the course is severed. All other grades must be followed
by the letter "n," indicating that the course is a continuous one and that the completion of the quarter's work carries no credit toward graduation until the remaining quarters of the course are completed. The grade of any quarter of a continuous course shall be final, except in thesis courses and courses offered by the Law School. In these cases the letter "n," not accompanied by a grade, is assigned at the end of each quarter to indicate that the student is entitled to continue in the course; upon completing the course a grade is given which applies to the whole course.

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

Grade Points
Each student receives the following number of grade points for each quarter credit for which he has been registered and for which he has received a grade: 3 grade points for each credit of grade A; 2 grade points for each credit of grade B; 1 grade point for each credit of grade C; 1 grade point for each credit of grade "plus"; 0 grade points for each credit of grade D or E; 1 grade point is deducted from his total for each credit of grade F. (See grade point requirements for graduation, page 21.)

Financial Obligations
Students who owe bills to the University for fees, fines, board and room in the residence halls, and other charges are not permitted to register for the succeeding quarter, secure transcript of record, or obtain diplomas until the obligation is paid or satisfactorily adjusted. Similar action is taken where students owe bills to student organizations whose books are kept in the Business Office of Montana State University, including charges for board and room in fraternity and sorority houses.

Fees
All fees must be paid at time of registration, except as otherwise stated. The facilities of Montana State University do not permit the acceptance of non-bankable paper.

The entrance fee, student activity fee, and health service fee are not charged students registering for less than six credits. (Applied music courses and shorthand are not included in determining the maximum of less than six credits.) Listeners pay the same fees as students who register for less than six credits except those to whom the special attendance fee applies.

Graduate students pay the same fees as undergraduate students except that the student activity fee and the student health fee are optional.

Students who withdraw during the first six weeks of any quarter may receive partial refunds.

High school honor scholarships exempt holders from payment of the entrance fee, the registration fee, and the incidental fee (total of
Fees

$20). State University scholarships exempt holders from payment of the registration fee and the incidental fee (total of $15). For further information regarding these scholarships see page 33.

The following are the fees authorized for the college year 1936-37 in all schools and departments except where otherwise specified:

Entrance (or Matriculation) Fee ......................................................... $5
Payable by all students on first registration, except those registered for less than six credits.

Registration Fee (per quarter) ......................................................... $5
Payable quarterly by all students regardless of number of credits registered for.

Special Attendance Fee (each course, per quarter) ......................... $2
Payable by adults registered only as listeners who have not been in attendance during the quarter preceding.

Incidental Fee (per quarter) ........................................................... $10
Payable quarterly by all students registered for six or more credits, to cover laboratory supplies in all courses, library book rentals, locker fees, gymnasium towel service, etc. This fee does not include loss, breakage or fines. Students registered for less than six credits are charged $5.

Building Fee (per quarter) .............................................................. $5
Payable quarterly by all students registered for six or more credits. Students registered for less than six credits are charged $2.50.

Laboratory-Incidental Fee (per quarter) ........................................... $5
Payable quarterly by (1) all students registered as majors in the Schools of Forestry, Journalism, or Pharmacy, and (2) students registered as majors in other departments but enrolled for five or more credits in either of these schools. Students registered as majors in other departments but enrolled for less than five credits in any one of these schools pay $2.50. The course Journalism 12abc, Survey of Journalism, is not subject to this fee.

Tuition Fee for Students in the School of Law (per quarter) ............. $5

Late Registration Fee ........................................................................ $1
Payable by students who complete registration after the prescribed registration days of any quarter. For each college day $1, not exceeding a total of $5. This fee applies to all students except those registered for less than six credits.

Non-Resident Fee (per quarter) ....................................................... $25
All students not residents of the State of Montana unless matriculated before September 1, 1923, in the University of Montana, are required, in addition to all other fees, to pay a special non-resident fee of $25 per quarter. Part-time students are required to pay a non-resident fee of only $2 per quarter credit, with a minimum of $10 per quarter. No person will be considered eligible to register as a resident of the State of Montana unless he has resided in the state for the twelve months next preceding the date of his proposed registration. Provided that no person under legal age shall be prevented because of his minority from gaining such residence; and no unmarried person will be considered to have gained residence in the state while a student in any institution of learning unless, or until his parents, if living, move into the state and acquire bona fide residence there. Residents of Alaska, the Canal Zone, Hawaii, Porto Rico, and the insular possessions
of the United States, are exempted from the payment of non-resident fees.
The burden of registering under proper residence is placed upon the student. If there is any possible question of his right to legal residence, the matter should be brought to the attention of the Registrar and passed upon, previous to registration or the payment of fees. Any student who registers improperly under this rule not only is required to pay the non-resident fee, but is assessed a penalty of $10.

**Student Activity Fee (per quarter)** ........................................................ $5.50
Entitles to subscription to college newspaper, free admission to all intercollegiate debate and major athletic contests, dramatic productions ("Masquers"), and reduced rates to lectures and concerts during the quarter for which the fee is paid, and includes class dues. Payment of this fee for three quarters entitles to one copy of the college annual ("Sentinel").

**Student Union Building Fee (per quarter)** ............................................ $1.67
Income from this fee is to be administered under the supervision of the President and the Local Executive Board of the State University for the purpose of providing a building for the use of the student organizations and activities.

**Health Service Fee (per quarter)** ........................................................ $2.50
This fee covers services indicated on page 32.

**Change of Enrollment Fee** ................................................................. $1
Payable by each student for each change of enrollment card filed after the first week of the quarter; $2 after the second week.

**Special Examination Fee** ................................................................. $2
Payable by students for each special examination.

**Certificate Fee** ................................................................. $5
Payable by applicants for the University Certificate at the time the application is filed.

**Diploma Fee** ................................................................. $5
Payable by candidates for degrees at the time the application is filed.

**Application for Degrees (Delayed)** ................................................ $5
Applications for degrees and certificates must be filed not later than the eighth day of the quarter immediately preceding the quarter in which the student expects to complete his requirements. Students who do not file such applications at this time may file the application at a later date only upon the payment of a fee of $5.

**Removal of Incompletes or Conditions (not due to illness or fault of institution)** ......................................................... $2

**Student Hand Books (first book free)** ........................................ $1

**Transcript of Record (first transcript free)** ....................................... $1

For fees charged in Typing, Shorthand, Office Machines Practice, and Retail Stores, see description of those courses, pages 78 and 79.

For fees charged in the School of Music see School of Music, page 99.

For fees charged in correspondence study see Correspondence Courses, page 75.

For fees charged during the summer session see page 105 or Summer Session Bulletin.

For textbook fee in the School of Education see page 82; in Introduction to Biological Science, page 41; in Introduction to Physical Science, page 60; in Introduction to Social Science, page 67.
Expenses and Living Accommodations

The Residence Halls

Montana State University adopted the freshman dormitory plan in 1923. All freshmen whose homes are not in Missoula are required to live in North or South Halls unless permission to live elsewhere is granted for special reason.

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

Upperclass women are advised to live in Corbin Hall, which is reserved for women students beyond the freshman year.

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

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

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

North Hall, Corbin Hall and South Hall, dormitories for freshman women, upperclass women and freshman men, respectively, are all three-story fireproof brick buildings. The rooms are well lighted and steam heated. Each bedroom has a lavatory; the double rooms have two clothes closets. All bathrooms have showers. Each room is furnished with a study table, chairs, single beds, mattresses, pillows, bed linen, towels, curtains and a dresser in Corbin and North Halls, or two chiffoniers in South Hall. In addition, each bed in Corbin and North Halls is supplied with two woolen blankets, and in South Hall, with three army blankets. In all dormitories, day covers for beds, drapes and a rug are to be furnished by the student. Each hall has a students' laundry and trunk room.

Rates

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

- Double rooms, $27 per quarter for each occupant.
- Single rooms, $37.50 per quarter.
- Board by the month, $21.
- Club Fee. A fee not to exceed $1 per quarter may be assessed the residents of each hall. This fund is expended under the direction of the club officers for social activities.

The University reserves the right to raise or lower the rates with reasonable notice. All occupants of the halls are required to board in the halls in which they reside. Application for admission to the halls must be accompanied by a deposit of $10; the application must be made upon a form furnished by Montana State University.
Living Accommodations for Upperclass Students

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

Upperclass students have no difficulty in securing satisfactory rooms in private homes or in rooming houses near the campus at rates varying from $7.50 to $12 a month; for single rooms, from $12 to $15. Board may be obtained at boarding houses at rates varying from $18 to $25.

Student rooms must be approved by the University. A list of approved rooms in private residences may be obtained on application to the Dean of Women or the Dean of Men. Arrangements for reservation of rooms in private residences must be made directly with the landlady.

Expenses

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

Books and Equipment ................................................. $20.00 to $40.00

Fees (See Note) ................................................... 44.00 to 89.00

Room rent for one (two in a room) ......................... 81.00 to 108.00

Board ................................................................. 189.00 to 225.00

Laundry ............................................................... 15.00 to 30.00

Total ........................................................................ $349.00 to $492.00

Note: The minimum expense of $44 for fees is applicable only to holders of high school honor and State University scholarships registered for work in the College of Arts and Sciences and the Schools of Business Administration, Education, Music, and Religion. An additional $15 each year is charged all students taking work in the Schools of Forestry, Journalism, Law, or Pharmacy. Students not residents of the State of Montana require $75 additional for payment of the non-resident fee.

The above table includes only the necessary expenses. Other expenses should be provided for, including clothing, $100 to $200, and incidentals about $10 per month. The expenditures for clothing and incidentals are similar to expenditures for those purposes at home. If a single room is desired, a minimum of $35 additional should be provided.

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

For information about earning expenses see pages 31 and 32; student loans, page 31; scholarships and prizes, pages 33 to 35; railroad fare refund, page 30.

Railway Fare Refund

In accordance with the provisions of Chapter 41 of the Session Laws of 1925, enacted by the Nineteenth Legislative Assembly, and under regulations established by the State Board of Education, railroad fare in excess of fifteen dollars actually paid by any student for a round trip by the most direct route available between his Montana home and Montana State University once each year, will be refunded. The amount of the refund will be based upon the railroad or stage fare over the shortest route and at the lowest rate. Students must present receipts for the fare thus paid.
In order to be entitled to the refund students must satisfactorily carry a normal amount of work, and must be in attendance either throughout the college year or through the summer quarter.

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

**General University Student Loan Funds**

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

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

University women may borrow under similar terms from the loan fund founded in 1922 by the Missoula branch of the American Association of University Women and from the loan fund of the Associated Women Students.

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

**Employment and Aid for Students**

Although many students earn all or a part of their expenses while in attendance at Montana State University, due to the economic conditions of the last few years it has become increasingly difficult to obtain employment. Those students who will find it necessary to obtain work in order to attend college should realize, also, that it is necessary to sacrifice some pleasures and to apply themselves diligently to the task before them. The necessary effort and sacrifice can be made only when there is an earnest desire on the part of the student for higher education. Self-supporting students enjoy the highest respect and regard both of their fellow students and of the faculty.

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

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

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

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

Health Service

A health service is maintained for the benefit of all students and is under the supervision of the Health Committee. When ill, students are expected to consult the director of the health service, who maintains daily office hours. Parents and guardians are promptly notified of serious or prolonged illness.

At the time of entrance all matriculants receive a thorough physical examination, and they are urged to be vaccinated for smallpox and typhoid fever before coming to Montana State University.

The health service will furnish typhoid and smallpox vaccine and diphtheria toxoid free of charge to any student, but will not reimburse students suffering from such infections when they have not been vaccinated. A student not of age should bring the written consent of his parents or guardian to allow the proper health authorities to vaccinate.

Reimbursement. The service is supported by a student fee of $2.50 per quarter. Because of this modest fee reimbursement for expenditures of the student for medical attention is necessarily restricted. Students who have paid the health service fee are reimbursed only for those bills incurred in Missoula with the express authorization of the director of the health service, and only to the extent that the fund derived from this fee is sufficient. Reimbursement is limited to bills incurred for sickness not caused by any illness chronic or acute prior to entering Montana State University, and for accidents happening to students while on the Montana State University campus, or while engaged in activities under the direct supervision of Montana State University. Reimbursement will not be given for the services of dentists, or oculists, nor for the treatment of chronic diseases or deformities, nor for consultation of practicing physicians, nor for X-Ray examinations (except in case of accident), nor for extra charges by hospitals, nor for special nurses. Hospital charges are paid in full but not exceeding the cost of eight days' hospitalization in any one quarter. Physicians' charges are pro-rated, the total reimbursement in any one quarter or for any one illness not to exceed $50.00 for any one student. Fees do
not cover doctor bills for surgical operations such as appendectomy, thyroidectomy, tonsilectomy, nor operations for hernia.

Fee. All students (optional with graduates) are required to pay the health service fee of $2.50 per quarter with the following exceptions: (1) students taking less than six quarter credits, or over 30 years of age, may not pay this fee without special permission of the director of the health service; (2) members or adherents of religious organizations opposed to medical service may pay the fee if they desire to do so. Students exempted from the payment of the fee are not entitled to reimbursement for bills incurred because of illness; students exempted from payment of the fee one quarter cannot pay the fee another quarter and receive the benefit of the health service reimbursements (with the exception of limited registrants changing status): neither can they be reinstated in the health service except upon special permission of the health committee.

Scholarships and Prizes

The deans of men and women in conference with the president are authorized to administer all matters connected with prizes and scholarships, subject to the condition of gift and any actions by the faculty. Where the award of a prize is conditional upon performance in, or in relation to the work of a department of the University, the award is made by the department concerned. Those that are established at present are stated as follows:

High School Honor Scholarships. The principal of each fully accredited high school in the state may name from each year's graduating class from one to four members, depending on the size of the class (but not more than two for any one unit of the University of Montana), to be recipients of high school honor scholarships. These scholarships exempt the holders from the payment of the matriculation fee, the registration fee, and the incidental fee, described on page 27, during their freshman year. Blanks for the nomination of scholars, with detailed statement of conditions, are furnished to principals by the Executive Secretary of the University of Montana at Helena.

State University Scholarships. Montana State University is authorized to award to five per cent of the students in regular attendance above the freshman year, scholarships exempting the holders from payment of the registration and incidental fees during the three quarters of the following college year. (See page 27.) These scholarships are to be awarded on or about July 1 of each year to students who, during the preceding year, attended all three quarters and made a scholastic index of 1.75 on a minimum of 40 credits. The awards are made on the basis of ability, character, and promise.

The Edwin B. Craighead Memorial Prize in Art. This prize is given annually to the freshman or sophomore student in the Department of Fine Arts who has shown the greatest ability in art during the year.

Painting Prize for Upperclassmen. A prize of $50.00 is offered for the best work done in painting by a student of junior or senior standing. The donor (anonymous) reserves the right to retain the prize-winning picture. The prize may be withheld if the quality of the work is not deemed sufficiently high.
State Federation of Women's Clubs Scholarships. The Montana Federation of Women's Clubs assumes the payment of expenses for board, room rent, and necessary books by a gift for the first year and funds provided on the loan basis for the remaining three years.

American Association of University Women. The Butte Branch of the American Association of University Women maintains five loan scholarships at the University, as follows: Claribel Leggat Couse Scholarship, Eleanor Humphrey Smith Scholarship, Rosemary MacGinnis Creden Scholarship, Natalie Lahr Dwight Scholarship, and the Jane Hutchens Moore Scholarship.

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

The Bonner Scholarship. This scholarship, amounting to approximately $300 a year payable from the income of an endowment, was established by Mrs. E. L. Bonner. It is awarded to a student ranking among the highest in scholarship at the end of his freshman year, to be held by him for three years unless forfeited.

The Rhodes Scholarship. Men who have completed their sophomore year at Montana State University, and are between 19 and 25 years of age, are eligible to compete for the Cecil Rhodes Scholarship, tenable for three years at Oxford University, England, with a stipend of four hundred pounds each year. Information may be obtained from Dean J. E. Miller, State University, Missoula, Montana, who is the University representative for the Rhodes Scholarship.

The Samuel W. Fairchild Scholarship. Second year pharmacy students are eligible to compete for a scholarship which amounts to $500 in cash. The examinations are held annually at the State University the second Monday in June. Students desiring to compete for this scholarship should apply to the Dean of the School of Pharmacy not later than May 1.

The Ryman Fellowship in Economics. This fellowship was founded in 1927 by the late J. H. T. Ryman, Esq., of Missoula, by a bequest of ten thousand dollars, the income of which is to be awarded every fourth even year (first awarded in 1930) to a student of that year's graduating class who has shown distinctive ability and promise in Economics and Sociology. The purpose of the fellowship is to enable such a student to pursue study in some graduate school of recognized standing leading to the degree of Doctor of Philosophy.

American Legion Military Award. The Hell Gate Post No. 27 of the American Legion awards a medal at the end of each regular quarter to a student of good scholarship and conduct who excels in military science and tactics.

The Annie Lewis Joyce Memorial Prize. This prize, the annual proceeds from a $200 endowment, is awarded upon recommendation of the English Department.

The Bennett Essay Prize. This prize, the annual proceeds from a $500 endowment, is awarded upon recommendation of the Department of History and Political Science for the best essay by any regular undergraduate student of the State University, on some topic pertaining to good government. No prize is awarded, however, in case the judges decide that no essay submitted is good enough to receive recognition.

The 1904 Class Prize. This is a prize payable from the interest on an endowment of $400.
**Faculty Women's Junior Scholarship Prize.** A cash prize is given annually to a junior woman of excellent scholarship record.

**The Duniway Scholarship Books.** A fund of $400, established by former President C. A. Duniway, provides standard books, within various fields of knowledge, to be awarded annually to students distinguishing themselves by scholarship in the several departments of the University.

**The Aber Memorial Oratorical Prizes.** A fund of $1000 was set aside by the late Professor William M. Aber for the establishment of the Aber Memorial Oratorical prizes. Prizes are given to the winners of first, second and third places, payable from the interest on this fund.

**The Frontier Poetry Prizes.** Books are awarded for the first and second places upon recommendation of the Department of English.

**The Grizzly Cup.** This cup is awarded to the athlete who has been outstanding in scholarship and in service to the State University. This award is withheld in case no student meets the qualifications.

**The Pi Mu Epsilon Prize.** This prize is given bi-annually in the Department of Mathematics and the Department of Physics. It is of the same nature, and is awarded under the same conditions as the Duniway prize; it is given by the local chapter of Pi Mu Epsilon, honorary mathematics fraternity.

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

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

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

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**Activities**

**Athletics**

All athletic activities at Montana State University are under the control and supervision of the Faculty Athletic Committee. Athletic eligibility, schedules of competition and relationship with other institutions are subject to the approval of the Faculty Athletic Committee. The details of management of Intercollegiate athletics are handled by the athletic manager and the coaches, subject to the approval of the Associated Students' Athletic Board, which consists of two members of the Faculty, three members of the Central Board of the Associated Students, and two alumni members.

The University has two gymnasiums, one for women and one for men. The men's gymnasium is one of the finest in the country. The gymnasium floor is 75x140 feet in size with separate rooms for boxing, wrestling and theory classes. The first floor is given up to administrative offices, locker rooms, varsity teams' rooms, and training rooms. A wing of the building contains the shower rooms and swimming pool. The entire building is equipped with the very latest and best apparatus of all kinds.
The women's gymnasium is equipped with dressing rooms, shower rooms, rest rooms, offices, class rooms, and contains a gymnasium floor 45x90 feet in size. It is fully equipped with the best gymnastic apparatus. In the men's gymnasium is a large locker and shower room set apart for the use of women, and the natatorium is reserved for their use half of the time.

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

Annual Interscholastic Games

For thirty-three years Montana State University has held an annual interscholastic invitation meet for track and field contests on Dornblaser Field. Golf and tennis tournaments have recently been added to the regular program of events. Invitations to participate are extended to all fully accredited high schools in the state. In determining and administering rules of eligibility for the contests the University has the aid of the Montana High School Athletic Association.

Interscholastic week is by no means devoted entirely to athletics. The declamatory contests for both girls and boys, the essay contest, the Little Theatre tournament, the interscholastic debate, the meetings of the Interscholastic Editorial association—these events attract students from all parts of the state.

Intercollegiate Debate

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

Publications

The Associated Students of Montana State University publish a semi-weekly newspaper, The Montana Kaimin. The paper has become a permanent factor in campus life.

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

The Frontier and Midland, a literary magazine, is published quarterly at Montana State University.

Societies

The entire student body is organized into one society known as the Associated Students of the State University of Montana. This organization, through appropriate committees and officers, has charge of matters of general student concern, such as athletics, oratory, debate, and entertainments.
The Associated Women Students is an organization made up of all women students in the University for the purpose of regulating matters pertaining to the student life of its members.

The University Inter-Church Club and various church clubs and associations carry on work for the religious and social life of the University.

There are five musical organizations—the University Glee Club, composed of men; the Women's Glee Club; A Capella Choir, composed of men and women; the University Symphony Orchestra; and the University Band. These organizations provide music for University events during the year, and furnish an opportunity for all students who have musical talent to cultivate it as well as to participate in the social pleasures pertaining to such organizations.

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

The Montana Masquers is the University dramatic organization, open to students who have distinguished themselves in dramatics in any capacity; acting, stage managing, costuming, designing, etc. A series of plays is given throughout the year in Missoula, and at least one tour is made of the state.

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

The Silent Sentinel is a similar organization of upperclass men. Bear Paw is an organization of sophomore men which assists in entertainment of visiting teams.

Tanan-of-Spur is a society of sophomore women for the purpose of taking care of women guests at the University during the year and of assisting the Bear Paw organization in any way in University affairs.

The Women's Athletic Association is an organization devoted to the development of interest in the various sports for women.
Organization of Instruction

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Psychology and Philosophy (page 45).
Zoology and Bacteriology (page 46).

Division of the Humanities
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English (page 51).
Fine Arts (page 55).
Library Economy (page 55).
Modern Languages: French, German, Spanish, (page 58).

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Geology (page 61).
Home Economics (page 62).
Mathematics (page 64).
Physics (page 66).
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Division of Social Sciences
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Pre-Business Administration (page 72).
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PUBLIC SERVICE DIVISION (page 73).
SCHOOL OF BUSINESS ADMINISTRATION (page 76).
SCHOOL OF EDUCATION (page 80).
SCHOOL OF FORESTRY (page 84).
SCHOOL OF JOURNALISM (page 89).
SCHOOL OF LAW (page 92).
SCHOOL OF MUSIC (page 95).
SCHOOL OF PHARMACY (page 99).
MILITARY SCIENCE AND TACTICS (page 102).
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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 1 to 99 are offered to undergraduates only; those numbered from 100 to 199 are offered to both undergraduates and graduates (the amount of graduate credit allowed is subject to the regulations listed under "Graduate School"); those numbered from 200 to 299 are offered to graduates only. In the courses designated "continuous" the student may receive credit only upon the completion of the entire course. In courses numbered a, b, c, credits may be granted upon completion of a quarter's work. In continuous courses, or in courses numbered a, b, c, the first quarter of a course is prerequisite to the second quarter and the second quarter is prerequisite to the third quarter, unless otherwise indicated. This outline is as nearly complete as it is possible to make it and it affords the student information which is necessary in arranging his course. When the student has decided upon his major course, he is expected to follow closely the work which is outlined as the required course in that line of study or research.

The University reserves the right to withdraw any course for which fewer than five students are enrolled before the opening of the course. Such courses may be given only in special cases and with the written approval of the President.
The College of Arts and Sciences offers the student a liberal education and special training in some chosen field of work.

Requirements for Admission

The regular University requirements for admission apply to the College of Arts and Sciences, see pages 15 to 18.

Requirements for Graduation

Candidates for the Bachelor of Arts degree must meet the following requirements:

The general University requirements for graduation, pages 18 to 22, including 93 credits in the College of Arts and Sciences. Special requirements in the Division of which the major department is a member, and the major requirements of the department from which the degree is to be granted must also be met.

Divisional Requirements for Graduation

Division of Biological Sciences. Candidates for the degree of Bachelor of Arts in this Division should complete the following curricula during the freshman and sophomore years:

**Freshman Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 13abc or Humanities 15abc</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Zoology 10 and 11ab, Botany 11abc, or Geology</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>*Foreign Language or *Mathematics</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Physical Education 11abc</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Military Science 11abc (Men)</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td></td>
<td>17</td>
<td>17</td>
<td>17</td>
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</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities 15abc or Chemistry 13abc</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>English 11ab and Psychology 11</td>
<td>3–5</td>
<td>3–5</td>
<td>3–5</td>
</tr>
<tr>
<td>*Foreign Language and Elective</td>
<td>3–5</td>
<td>3–5</td>
<td>3–5</td>
</tr>
<tr>
<td>Social Science 11abc</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Physical Education 12abc</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Military Science 12abc (Men)</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td></td>
<td>19–20</td>
<td>19–20</td>
<td>19–20</td>
</tr>
</tbody>
</table>

*Note: Students who do not offer entrance credit in Chemistry may elect Humanities 15abc in the first year. Students who plan to major in Psychology may take Physical Science 17 instead of Chemistry 13. Electives in second year: Botany majors, Botany 22, 21, and 3 additional credits; Zoology and Bacteriology majors, Zoology 23 and electives; Psychology majors, Psychology 12ab and 3 additional credits; Physical Education majors, Physical Education 20abc.*

Division of the Humanities. Candidates for the degree of Bachelor of Arts in this Division should complete the following curricula during the freshman and sophomore years:

*Course entered dependent upon high school preparation. See Departments of Classical and Modern Languages, pages 50 and 56, and Department of Mathematics, page 64.*
### Freshman Year

<table>
<thead>
<tr>
<th></th>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities 15abc or Social Science 11abc</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Biological Science 13 or Physical Science 17</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>*Foreign Language</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Physical Education 11abc</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Military Science 11abc (Men)</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td><strong>Total</strong></td>
<td>17</td>
<td>17</td>
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</table>

### Sophomore Year

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<thead>
<tr>
<th></th>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Science 13abc, Physical Science 17abc, Social Science 11abc, or Humanities 15abc</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>*Foreign Language or Mathematics or *Foreign Language</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>English 11ab (two quarters)</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Electives</td>
<td>3-4</td>
<td>2-4</td>
<td>3-4</td>
</tr>
<tr>
<td>Physical Education 12abc</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Military Science 12abc (Men)</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>18-19</td>
<td>17-19</td>
<td>18-19</td>
</tr>
</tbody>
</table>

**Note:** Electives in second year: English majors, English 59abc (two quarters), and 57ab (one quarter), or 30 or 32. Library Economy majors should select Psychology or Economics.

### Division of Physical Sciences

Candidates for the degree of Bachelor of Arts in this Division should complete the following curricula during the freshman and sophomore years:

#### Freshman Year

<table>
<thead>
<tr>
<th></th>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Science 11abc</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry 13abc or Humanities 15abc</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>*Mathematics or *Foreign Language</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Physical Education 11abc</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Military Science 11abc (Men)</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
<td>17</td>
<td>17</td>
</tr>
</tbody>
</table>

#### Sophomore Year

<table>
<thead>
<tr>
<th></th>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities 15abc or Chemistry 13abc</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Physics 20abc</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>English 11ab (two quarters)</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>*Foreign Language and Psychology 11</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education 12abc</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Military Science 12abc (Men)</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17-20</td>
<td>17-20</td>
<td>17-20</td>
</tr>
</tbody>
</table>

**Note:** Students who do not offer entrance credit in Chemistry should elect Humanities 15abc in the freshman year. Students intending to major in Home Economics should elect a foreign language in the freshman year; others Mathematics. In the sophomore year, students intending to major in Home Economics may replace Physics 20abc with Home Economics 15ab and 14, and may replace foreign languages with Chemistry 19 and 163. The language in the freshman year and Home Economics 15ab and 14 in the sophomore year may be interchanged in case of schedule conflicts.

*Course entered dependent upon high school preparation. See Departments of Classical and Modern Languages, pages 50 and 56, and Department of Mathematics, page 64.
**Courses in Botany**

**Division of Social Sciences.** Candidates for the degree of Bachelor of Arts in this Division should complete the following curricula during the freshman and sophomore years:

### Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
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</thead>
<tbody>
<tr>
<td>Physical Science 17abc or Biological Science 13abc</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Social Science 11abc</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td><em>Foreign Language</em></td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Physical Education 11abc</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Military Science 11abc (Men)</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td></td>
<td><strong>17</strong></td>
<td><strong>17</strong></td>
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</table>

### Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities 15abc</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Economics 14abc</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>English 11ab and Psychology 11</td>
<td>3-5</td>
<td>3-5</td>
<td>3-5</td>
</tr>
<tr>
<td>Elective</td>
<td>4-5</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Physical Education 12abc</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Military Science 12abc (Men)</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td></td>
<td><strong>18-20</strong></td>
<td><strong>18-20</strong></td>
<td><strong>18-20</strong></td>
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</tbody>
</table>

**Note:** Electives in the sophomore year: History majors, History 21abc; Economics majors, Economics 15 and 16.

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**DIVISION OF BIOLOGICAL SCIENCES**

**Professor Joseph W. Severy, Chairman.**

The following course is offered as a general survey of the field of Biological Sciences:

**13. Introduction to Biological Science.** 3 Q. Autumn, winter, spring. Continuous. 15 cr. Students having 8 or more college credits in laboratory biology or botany may not receive credit in this course. A general survey of the principles and laws controlling the growth, reproduction, and maintenance of living organisms, their distribution over the world, their relations to man as a source of disease, and their economic value to man through benefit or injury. Given conjointly by the Departments of Biology, Botany, and Geology. A textbook fee of $1.00 is charged each quarter. Mr. Deiss, Mr. Severy.

**Wild Life Management**

Beginning with the year 1936-37 the Departments of Zoology and Bacteriology and of Botany and the School of Forestry will cooperate in the presentation of a major in Wild Life Management. This major will be designed to meet the increased demand for well-trained game specialists in the U. S. Biological Survey, the National Park Service, and the U. S. Forest Service. A recommended curriculum will be available at the time of registration in the autumn quarter.

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**Botany**

**Professors Joseph W. Severy (Chairman), Charles W. Waters; Associate Professor C. Leo Hitchcock.**

**Major Requirements:** 45 credits or more including Botany 11, 21, 22, 141abc. The following courses may be applied in partial fulfillment of this credit requirement: Zoology 125, 126, and 3 cr. in 129.

*Course entered dependent upon high school preparation. See Departments of Classical and Modern Languages, pages 50 and 56.*
Additional work should be elected from the following courses: 14, 51, 861, 161, 165, 168, 171. The following courses must be completed: Zoology 10, 11, 125, 126, 3 cr. of 129, Chemistry 13. Geology 11ab is recommended. A reading knowledge of French or German (preferably German) is desirable, particularly for students who plan to do advanced work.

Senior examinations will not be given except to candidates for honors.

Students who plan to teach biology in high school are expected to complete Zoology 10, 11ab, Botany 11ab and either Botany 11c or 14.

**General Information.** The region is rich in opportunity for research in ecology, pathology, systematic botany and other branches of the science. Graduate work in these subjects, leading to the degree of Master of Arts, is offered.

**For Undergraduates**

11a. General Botany. 1 Q. Autumn. 5 cr. Summer. 4 cr. No prerequisite. A presentation of the general principles of the anatomy and physiology of the flowering plants. Mr. Hitchcock.

11b. General Botany. 1 Q. Winter. 5 cr. No prerequisite. A presentation of the broad outlines of the classification of the plant kingdom, and the tracing of the possible stages in the evolution and development of the vegetative and reproductive structures of plants. Mr. Hitchcock.

11c. General Botany. 1 Q. Spring. 5 cr. No prerequisite. An introduction to the classification of the higher plants, as exemplified in the spring flora; factors governing plant distribution, variation, heredity, and evolution. Given in 1935-36, and in alternate years. Mr. Hitchcock.

12ab. Forestry Botany. 2 Q. Autumn, spring. 5 cr. each quarter.
   (a) An introduction to morphology and anatomy, together with such physiological principles as are necessary to an understanding of morphology and anatomy. (b) Outlines of classification of plants found in the field and forest. Training in the use of a manual, methods of collecting. Mr. Hitchcock. Mr. Waters.

14. Economic Botany. 1 Q. Spring. 5 cr. Summer. 4 cr. No prerequisite. A treatment of plants from the standpoint of their uses and products; the geographic distribution; a consideration of the more important aspects of the methods of culture and utilization of those plants of chief economic importance. Given in 1936-37, and in alternate years. Mr. Waters.

21. Plant Histology. 1 Q. Winter. 5 cr. Prerequisite, Botany 11ab or 12ab. A detailed study of the origin of organs and tissues of plants, and a comprehensive survey of the anatomy of the higher plants. Methods of making microscopical slides. Given in 1935-36, and in alternate years. Mr. Severy.

22. Plant Physiology. 1 Q. Autumn. 5 cr. Prerequisite, Botany 11abc or 12ab. The functions of the living plant and an attempt to interpret function in terms of chemical and physical reactions. The laboratory work consists of observations of the various processes of plants under controlled conditions. Mr. Severy.

31. Forest Pathology. 1 Q. Winter. 5 cr. Prerequisite, Botany 22. The agencies of disease and decay of trees and structural timbers; problems of government forests. Mr. Waters.

51. Plant Ecology. 1 Q. Spring. 5 cr. Prerequisite, Botany 22. The relation of vegetation to the factors of the environment; the influence of environmental factors upon the distribution of plants; the problems of plant succession. A brief survey of plant geography. Mr. Severy.

561. An Introduction to Systematic Botany. 1 Q. Summer. 4 cr. Open to all students. The classification of flowering plants and a survey of the origin and relationships of the higher plants. The identification of plants; use of a manual; methods of collecting, preserving and mounting plants. The work deals with the summer flora of western Montana. Mr. Severy.

**For Undergraduates and Graduates**

141abc. Comparative Morphology. 3 Q. Autumn, winter, spring. 4 cr. each quarter. Prerequisite, Botany 22. The morphology and life histories of representative types of plants belonging to the larger natural
courses, the relationship and the possible evolution of these groups. Given in 1937-38, and in alternate years. Mr. Waters.

161ab. Systematic Botany. 2 Q. Winter, spring. 5 cr. each quarter. Prerequisite, Botany 22. Classification of the flowering plants, especially of Montana; methods of collecting, preserving and mounting plants. Mr. Hitchcock.

165. Mycology. 1 Q. Autumn. 5 cr. Prerequisite, Botany 141ab for Botany majors; Botany 31 for Forestry majors. The classification and relationships of the fungi, with training in their collection and preservation. Given in 1936-37, and in alternate years. Mr. Waters.

168. Microtechnique. 1 Q. Any quarter, but preferably in the spring. 2 to 5 cr. Course may be repeated during a succeeding quarter to a maximum of 5 credits. Prerequisite, Botany 21. The various methods of preparing microscopic slides; instruction in the paraffin method, venetian turpentine method, celloidin method and the glycerine method. Largely independent laboratory work. Mr. Severy. Mr. Waters.

171. Botanical Literature. 3 Q. Autumn, winter, spring. 1 to 3 cr. each quarter. Prerequisite, 25 credits in botany and junior standing. Students may enter any quarter. An introduction to the botanical journals and to the methods of bibliographical research. Mr. Severy. Mr. Hitchcock. Mr. Waters.

For Graduates

201. Research. Any quarter. Credit variable. Work on selected problems in the fields of ecology, pathology, morphology, physiology and systematic botany. Mr. Severy. Mr. Hitchcock. Mr. Waters.

Physical Education

PROFESSORS DOUGLAS A. FESSENDEN, WILLIAM E. SCHREIBER (CHAIRMAN); ASSISTANT PROFESSOR HARRY F. ADAMS (INTRA-MURAL DIRECTOR); ADOLPH J. LEWANDOWSKI, LESLIE VINAL (DIRECTOR OF WOMEN'S DIVISION), INSTRUCTORS.

Major Requirements: 45 or more credits in Physical Education, in addition to courses 11abc and 12abc. Physical Education 15abc and 20abc must be completed. The following courses should be completed: Zoology and Bacteriology 10, 11, 119ab, 10 cr.; 105, 106, 5 or 10 cr.; 24, 5 cr.; 26, 3 cr. The requirements of the School of Education for the Certificate of Qualification to Teach should be completed. A course in physics and chemistry is advised.

Senior examinations will not be given except to candidates for honors.

General Information. All students taking part in the work of the Department are required to take the physical and medical examinations provided by the Department. This examination is given to every student entering the freshman or sophomore year.

All students enrolled in the State University for eight or more credits are required to take 1 credit hour each quarter until 6 credits of Physical Education 11abc, 12abc have been completed. Students who are physically unable to take the regular class work are given excuses or exemptions by the Chairman of the Department after consultation with the physician in charge of the case, or are required to enter corrective classes, or to do individual corrective work suited to their needs.

Athletics. All intercollegiate athletics are under the supervision of the Faculty Athletic Committee, varsity teams being maintained in football, basketball, track and the minor sports.

Facilities are provided by the Department for participation in athletic work for every member of the student body, intra-mural competition being maintained in football, hockey, basketball, baseball, track,
For Undergraduates

S2. Training and Athletic Injuries. 1 Q. Summer. 1 cr. Handling and conditioning the athlete for contests; treatment of some of the common athletic injuries. Mr. Schreiber.

S5. Athletic Administration. 1 Q. Summer. 2 cr. Theory of competitive sports. Organization and administration; budgeting, financing, purchasing, and care of equipment; scheduling of contests; general planning of a program of interscholastic sports. Mr. Fessenden.

11abc, 12abc. Freshman and Sophomore Physical Training (Men). 6 Q. Autumn, winter, spring, freshman and sophomore years. Summer, 1 cr. each quarter. Practical work in: swimming, floor work, apparatus work, competitive games, track, boxing, wrestling, tennis, golf, fencing and cross-country running. No student will be given the final grade in the last quarter of this course until he has passed the elementary examination in swimming. Mr. Schreiber and Staff.

11abc, 12abc. Freshman and Sophomore Physical Training (Women). 6 Q. Autumn, winter, spring, freshman and sophomore years. Summer, 1 cr. each quarter. Practical work in: hockey, tennis, recreative games, mass class drills, apparatus work, elementary and advanced dancing, swimming, fencing, basketball, volleyball, baseball, track, tennis and golf. No student will be given a final grade in the last quarter of this course until she has passed the elementary swimming examination. Miss Vinal and Staff.

15abc. Advanced Gymnastics. 3 Q. Autumn, winter, spring. 1 cr. each quarter. Prerequisite, 12abc or marked gymnastic ability. Open for credit only to major and minor students. Gymnastic mass floor drills in the German and Swedish systems; apparatus work and military marching tactics; outdoor work in recreative games and athletics; class leading is also required in advanced swimming, diving and life saving. Mr. Schreiber. Miss Vinal.

20abc. Human Anatomy. 3 Q. Autumn, winter, spring. 4 cr. each quarter. Prerequisite, sophomore standing. Students may enter either 20ab or 20bc after completing 20a. Mr. Schreiber.

32. First Aid. 1 Q. Spring. Summer. 2 cr. Prerequisite, for students majoring in Physical Education. 20ab; for majors in Forestry, junior standing; all others, senior standing. Accidental injuries of the human body; methods of treatment. Red Cross certification may be secured on completion of the course. Mr. Schreiber.

35a. Systems and Methods. 1 Q. Autumn. 3 cr. Open only to major or minor students in Physical Education. Prerequisite, Physical Education 12abc. Various systems of physical education: their place in American schools; practical application in methods of handling gymnastic class work. Miss Vinal.


45abc. Gymnastic Dancing. 2 Q. Autumn, winter, spring. 1 cr. each quarter. Prerequisite, Physical Education 12abc and junior standing. Students may enter any quarter. Folk, gymnastic, and natural dancing given especially from the standpoint of the teacher. Miss Vinal.

For Undergraduates and Graduates

134. Playgrounds. 1 Q. Autumn. 4 cr. Prerequisite, junior standing. History, construction, equipment, problems, management, methods of conducting and practical work in supervision of playgrounds; theory of play. Miss Vinal.

136. Kinesiology. 1 Q. Winter. 5 cr. Open only to major students. Prerequisite, Physical Education 20ab. The anatomical mechanism of the most common and representative types of gymnastic movements and positions with the view of developing subjective control. Mr. Adams.

137. School Gymnastics. 1 Q. Spring. 4 cr. Prerequisite, Physical Education 35b. Methods of handling gymnastics in the graded and high schools. Types of work suitable for each grade. Miss Vinal.

139. Laws of Growth and Development. 1 Q. Spring. 1 cr. Prerequisite, Physical Education 149. Open to major students only. The laws of growth and development of the child from birth to adult years; the application of physical education to these laws. Mr. Schreiber.
141. Corrective Gymnastics. 1 Q. Winter. 4 cr. Prerequisite, Physical Education 136 and 137. Open only to major students. The prevention and correction of deformities in the child. Mr. Schreiber.

142. Equipment and Management. 1 Q. Spring. 2 cr. Open only to major students. Best methods of construction of gymnasiaums, athletic fields, swimming pools, tennis courts, running tracks, and their management in schools and colleges. Mr. Schreiber.

143abc. Principles of Coaching. 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, Education 18, or may be taken concurrently. Summer. 1 to 6 cr. Students may enter any quarter. Methods of handling athletic teams, theory and practice. The work of the men and women is separate. For men: football, basketball, baseball, track and training methods from the standpoint of the coach. For women: basketball, hockey, indoor baseball, playground ball, volley ball and association football. Mr. Adams. Mr. Fessenden. Mr. Lewandowski. Miss Vinal.

146. Massage. 1 Q. Spring. 2 cr. Prerequisite, Physical Education 20ab. Open only to major students. The place of massage in therapeutics and physical education. Methods and use of the various types of massage. Practical application. Mr. Schreiber. Miss Vinal.

148. Physiology of Exercise. 1 Q. Autumn. 2 cr. Prerequisite, Biology 24. Open only to major students. The physiological effects of the different types of exercises on the functions of the human body. Mr. Schreiber.

149. Anthropometry and Diagnosis. 1 Q. Autumn. 3 cr. Prerequisite, Physical Education 20ab. Open only to major students. Examination of the human body for external signs of disease. Anthropometric measurement and tests; how to use and chart them; their value in physical education. Mr. Schreiber.

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**Psychology and Philosophy**

**Professors Walter R. Ames, Ernst A. Atkinson, Franklin O. Smith (Chairman).**

**Major Requirements:** 45 or more credits, including Psychology 11, 12ab, 14, 104, 130, and 190.

Senior examinations will not be given except to candidates for honors.

**For Undergraduates**

11. General Psychology. 1 Q. Autumn. Winter. Spring. 5 cr. Summer. 4 cr. Entering freshmen may not register for this course in the autumn quarter. An outline study of the whole field, and an introduction to the special courses in Psychology. Psychology Staff.

12ab. Experimental Psychology. 2 Q. Autumn, winter. 4 cr. each quarter. Prerequisite, Psychology 11. Laboratory methods and apparatus used in the study of some of the laws of mental processes, and their application. Mr. Atkinson.

13. Child Psychology. 1 Q. Autumn. 3 cr. Summer. 4 cr. Prerequisite, Psychology 11. The development of the child; comparative studies with animal intelligence and behavior. Mr. Ames.

14. Social Psychology. 1 Q. Winter. 5 cr. Prerequisite, Psychology 11. A study of the social aspects of mental life; the psychological processes of groups. Mr. Smith.

15. Psychology of Personality. 1 Q. Spring. 3 cr. Prerequisite, Psychology 11. Mr. Smith.

19. Educational Psychology. See courses in Education.

320. Psychology of Elementary School Subjects. 1 Q. Summer. 4 cr. Prerequisite, Psychology 11 or consent of instructor. Psychological factors involved in the study and teaching of elementary school subjects, including the manual arts. Mr. Smith.

30. Applied Psychology. 1 Q. Winter. 5 cr. Prerequisite, Psychology 11. General principles of applied psychology; special reference to vocational and avocational psychology; the psychology of law, medicine, industry, music, religion, art, literature. Mr. Atkinson.

32. Psychology of Business. 1 Q. Spring. 5 cr. Prerequisite, Psychology 11. Mr. Atkinson.

33. Vocational Psychology. 1 Q. Winter. 4 cr. Prerequisite, Psychology 11. A study of the psychological principles in determining voca-
tional fitness; theory and technique of objective methods of selection and guidance; special and general aptitude tests, trade tests, and rating scales, with special reference to the student's occupational problems. Mr. Ames.

50. Logic. 1 Q. Spring. 5 cr. Prerequisite, sophomore standing, Mr. Atkinson.

51. Ethics. 1 Q. Spring. 5 cr. Prerequisite, sophomore standing. Inquiry into the nature of moral life, the evolution of ethics, the psychology of conduct, the meaning of moral values, with applications to current problems in the fields of law and justice, peace and war, marriage and the family, property, and business. Given in 1937-38, and in alternate years. Mr. Smith.

52. Introduction to Philosophy. 1 Q. Autumn. 3 cr. Prerequisite, sophomore standing. Statement of philosophical problems; explanation of terms; purpose and methods of the study of philosophy. History of Greek philosophy. Not given in 1936-37. Mr. Smith.

53. History of Modern Philosophy. 1 Q. Winter. 3 cr. Prerequisite, Psychology 52 or 11. Not given in 1936-37. Mr. Smith.

60. Types of Philosophy. 1 Q. Spring. 5 cr. Prerequisite, sophomore standing. Some outstanding problems and trends in philosophy at the present time. Given in 1936-37, and in alternate years. Mr. Smith.

For Undergraduates and Graduates

101. Advanced Experimental Psychology. 1 Q. Autumn. 3 cr. Prerequisite, Psychology 11 and consent of instructor. A study of special problems of quantitative psychology. Mr. Smith.

104. Systematic Psychology. 1 Q. Autumn. 5 cr. Prerequisite, Psychology 11. A study of the psychology of William James and other contemporary psychologists. Mr. Smith.

105. Modern Viewpoints in Psychology. 1 Q. Winter. 5 cr. Prerequisite, Psychology 11. Mr. Smith.

115. Abnormal Psychology. 1 Q. Autumn. 5 cr. Summer. 3 cr. Prerequisite, junior standing and Psychology 11. A study of abnormal phenomena and mental diseases: sleep and dreams; the subconscious; hypnosis; psychoanalysis. Mr. Atkinson.


190. Problems in Psychology. 3 Q. Autumn, winter, spring. Credit variable. Prerequisite, senior standing, Psychology 11, and consent of instructor. Opportunity is given students with sufficient ability to pursue original investigations individually. Mr. Smith.

For Graduates

203. Research. Any quarter. Credit variable. Prerequisite, Psychology 11 and 130 or equivalent. Work on selected problems under direction. Psychology Staff.

Colloquium. In cooperation with members of the faculty of other departments in the University. No credit. Meets twice each month from October to May. Open to members of the faculty, graduate and senior students.

The object of the colloquium is to afford opportunity for the study and discussion of topics of general interest in a more comprehensive and inclusive manner than is possible in the restricted departmental courses.

Zoology and Bacteriology

PROFESSORS JOSEPH W. SEVERY (ACTING CHAIRMAN); GEORGE FINLAY SIMMONS; ASSOCIATE PROFESSOR G. ALVIN MATSON; ASSISTANT PROFESSOR GORDON B. CASTLE. WILLIAM B. FORT, INSTRUCTOR.

Major Requirements: a minimum of 45 credits, including courses 10, 11, 23, 101, 105, 125, 126, 3 cr. of 129. In addition, major students must complete 3 quarters of Botany 11, Chemistry 13, and must have a reading knowledge of German or French (German preferable). Geology 11ab is advised.
Senior examinations will not be given except to candidates for honors.

Students who are to receive the recommendation of the department for teaching Biology in high schools are expected to complete Zoology 10, 11ab, Botany 11ab, and either Botany 11c or 14.

**Medical Technology**

There is a definite need for competent and well-trained laboratory technicians in physician’s offices, clinics, hospitals, medical schools, and research laboratories.

Clinical analyses are based on a knowledge of serology, bacteriology, chemistry, physics, and zoology. It is, therefore essential for the worker in this field to have accurate knowledge in these sciences. It is also important that the workers receive routine practical training in a hospital laboratory under the supervision of a qualified clinical pathologist.

For students desiring to enter this work a four year course is offered in the Division of Biological Sciences which involves three academic years of scientific training and twelve months of practical laboratory experience in an approved hospital. Upon the completion of the fourth year’s work the student will be required to pass an examination given by the American Society of Clinical Pathologists covering the practical laboratory instruction. At least the third year of University work prescribed in this course must be taken in residence at Montana State University.

The student who completes the prescribed course will be awarded a degree of Bachelor of Arts with a major in Medical Technology.

The curriculum for this course is as follows:

**Freshman Year:** Chemistry 13; Zoology 10 and 11; Mathematics 12 or 13; *Modern Language (French or German) 11ab; Physical Education 11abc; Military Science 11abc (Men).

**Sophomore Year:** Social Science 11abc; Physics 20abc; Chemistry 17 and 101; Zoology 26; English 11ab; Physical Education 12abc; Military Science 12abc (Men).

**Junior Year:** *Modern Language 13ab and 14 or 15; Zoology 105, 24; Bacteriology 119ab, 120, and 121; English 57ab; Chemistry 103.

**Senior Year:** Twelve months of practical instruction is offered on a rotating service in hospital laboratories. Subjects given include: urinalysis, 2 months; hematology, 2 months; serology, 2 months; tissue sections, 2 months; parasitology and gastroenterology, 1 month; pathogenic bacteriology, 1 month; basal metabolism, intravenous solutions, electrocardiography, museum preparation, applied endocrinology (pregnancy test, etc.), 2 months.

**The Biological Station**

Through an act of Congress when the Flathead Indian Reservation was thrown open for settlement, Montana State University received a grant of 160 acres of land for use as a Biological Station. This land is in three tracts at Flathead Lake, 89 acres at Yellow Bay, 36 acres on Bull (Idylwild) Island, and 34 acres on Wild Horse Island. At Yellow Bay a brick laboratory building, a log house for a dining room, a boat house, and a kitchen were erected. Sleeping quarters were in tents. The adjacent region is largely a virgin forest.

*Course entered dependent upon high school preparation.
The Station was maintained and used as an out-of-door summer school for students and as a laboratory for investigation for many years. Owing to lack of funds it has not been open to students for the past several years.

For “Pre-Medical Course” see page 66.

### For Undergraduates

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Quarter</th>
<th>Credits</th>
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<tbody>
<tr>
<td>10. General Zoology</td>
<td>1 Q. Autumn.</td>
<td>5 cr.</td>
<td>Survey of a representative animal (the frog), emphasizing organ systems and their functions. Introduction to cellular structure and organization, mitosis, maturation, histology, and embryology. Mr. Castle.</td>
</tr>
<tr>
<td>11. Elementary Zoology</td>
<td>2 Q. Winter, spring.</td>
<td>Continuous,</td>
<td>10 cr. Open to all students; course 10 recommended. Morphology, physiology, and phylogeny. (a) Protozoa. Porifera, Coelenterata, Platyhelminthes, Nemathelminthes, Annelida, Mollusca. (b) Echinodermata, Arthropoda, and lower chordata; introduction to genetics and evolution. Mr. Castle.</td>
</tr>
<tr>
<td>114. Eugenics</td>
<td>1 Q. Summer.</td>
<td>3 cr.</td>
<td>Open to all students. The fundamental principles involved in the better development of man and animals. This is not a laboratory course and does not fulfill the restricted elective requirement. Mr. Castle.</td>
</tr>
<tr>
<td>23. Comparative Vertebrate Zoology</td>
<td>1 Q. Autumn.</td>
<td>5 cr.</td>
<td>Prerequisite, course 10, 11, or equivalent. Comparative anatomy, development, and phylogeny of the vertebrates.</td>
</tr>
<tr>
<td>24. Physiology of the Human Body</td>
<td>1 Q. Spring.</td>
<td>5 cr.</td>
<td>Prerequisite, courses 10, 11, and Chemistry 13, or equivalent. A summary of bodily activities and the physiology of digestion, metabolism, excretion, nervous system, blood, circulation, respiration, reproduction, and endocrine glands. Mr. Matson.</td>
</tr>
<tr>
<td>26. General Hygiene</td>
<td>1 Q. Autumn. Spring. Summer.</td>
<td>3 cr.</td>
<td>Open only to freshmen and sophomores. An informational course dealing with the subject as related to the individual, the community, and the state. Bacterial and protozoan disease, food, exercise, sleep, ventilation, drainage, disinfectants, and quarantine. This is not a laboratory course and does not fulfill the restricted elective requirement. Mr. Matson.</td>
</tr>
<tr>
<td>27. Entomology</td>
<td>1 Q. Spring.</td>
<td>5 cr.</td>
<td>Prerequisite, course 11, or equivalent. Insects, their structure, classification, distribution, benefits, and injurious effects; their relation to animals and man through disease. Given in 1936-37, and in alternate years. Mr. Castle.</td>
</tr>
<tr>
<td>28. Animal Ecology</td>
<td>1 Q. Spring.</td>
<td>5 cr.</td>
<td>Prerequisite, course 11, or equivalent. An intensive course. General survey of the relations between animals and their environment, illustrated by field and laboratory studies on the nature and evolution of animal communities in Western Montana. Given in 1937-38 and in alternate years. Mr. Castle.</td>
</tr>
</tbody>
</table>

### For Undergraduates and Graduates

#### Zoology

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Quarter</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>101. General Comparative Embryology</td>
<td>1 Q. Winter.</td>
<td>5 cr.</td>
<td>Prerequisite, course 23 or equivalent. The early stages of development of invertebrates and vertebrates, including maturation of the germ-cells, fertilization, cleavage, formation of the germ layers, and origin of the embryo.</td>
</tr>
<tr>
<td>102. Vertebrate Embryology</td>
<td>1 Q. Spring.</td>
<td>5 cr.</td>
<td>Prerequisite, course 23, or equivalent; course 101 recommended. Later development, especially of the vertebrates, with emphasis on birds (chicks) and mammals (pig). A study of organ formation, based on prepared histological material, with a consideration of experimental evidence.</td>
</tr>
<tr>
<td>105. General Histology</td>
<td>1 Q. Autumn.</td>
<td>5 cr.</td>
<td>Prerequisite, course 23, or equivalent; a knowledge of chemistry is recommended. Preparation of animal tissues for microscopical examination: methods of fixation, sectioning with the microtome, and staining; use of the microscope. Mr. Castle.</td>
</tr>
<tr>
<td>106. Comparative Histology</td>
<td>1 Q. Winter.</td>
<td>5 cr.</td>
<td>Prerequisite, course 23, or equivalent; course 105 is recommended. The structure of the cell and of the more complex organs and tissues in the vertebrates. Mr. Castle.</td>
</tr>
<tr>
<td>111. Advanced Invertebrate Anatomy</td>
<td>2 Q. Winter, spring.</td>
<td>Credit variable. Prerequisite, course 10, junior standing, and consent of instructor. Intensive work in morphology, physiology, and phylogeny of invertebrates. Mr. Castle.</td>
<td></td>
</tr>
</tbody>
</table>
118. Advanced Entomology. 1 to 3 Q. Autumn, winter, spring. Credit variable. Prerequisite, course 27, junior standing, and consent of instructor. For advanced students who are prepared to take individual problems or study special insect groups. Mr. Castle.

122. Advanced Histology. 1 to 3 Q. Autumn, winter, spring. Credit variable. Prerequisite, courses 105 and 106 and consent of instructor. Special work and problems in tissue structure. Mr. Castle.

123. Advanced Vertebrate Anatomy. 1 Q. Autumn. 5 cr. Prerequisite, courses 10 and 11, junior standing, and consent of instructor. Intensive work in comparative anatomy, development and phylogeny of the vertebrates.

125. Genetics. 1 Q. Autumn. 4 cr. Prerequisite, course 23, or Botany 11abc, and junior standing. The facts and theories of heredity; the mechanism of heredity, involving consideration of segregation, random assortment, linkage systems, and mutations, and their relations to visible cell processes.

128. Evolution. 1 Q. Winter. 3 cr. Prerequisite, course 125. A consideration of the theories of evolution from the historical point of view; the nature of the evolutionary processes, the evidence for evolution, and the factors of evolution. This is not a laboratory course, and does not fulfill the restricted elective requirements. Mr. Severy.

Bacteriology

119a. General Bacteriology. 1 Q. Autumn. 5 cr. Prerequisite, junior standing, Chemistry 13 or equivalent, and either Botany 11abc, Zoology 10, 11 or Pharmacy 13. Home Economics students of junior standing who have completed Chemistry 19 may enter the course. The activities of bacteria, essential technique in laboratory methods, principles of sterilization, cultivation of bacteria, factors influencing the growth of bacteria, products of bacterial growth, general ideas of disease production and immunity; bacteriology of soil, milk, water, and foods. A course especially serviceable to students preparing for medical or technical work. Mr. Matson.

119b. Pathogenic Bacteriology. 1 Q. Winter. 5 cr. Prerequisite, course 119a. The characteristics, etiology, prophylaxis, and control of diseases caused by microorganisms. Laboratory work deals with various pathogenic types and methods of laboratory diagnosis of diseases. Mr. Matson.

120. Immunology. 1 Q. Spring. 5 cr. Prerequisite, junior standing and course 119b. General principles of immunity, and laboratory work in serology, animal experimentation, and clinical diagnosis. Mr. Matson.

121. Diagnostic Bacteriology. 1 Q. Winter. 5 cr. Prerequisite, course 119a. Laboratory work embraces the standard diagnostic methods used in hospitals and public health laboratories. Mr. Matson.

129. Biological Literature. 3 Q. Autumn, winter, spring. 1 cr. each quarter. Prerequisite, senior standing and 20 credits in zoology, bacteriology, or botany. Reviews of recent literature as a survey of the trend of study and experimentation in biological fields. Reports of special studies. Zoology, Bacteriology, and Botany staffs.

131. Advanced Biology. 1 to 3 Q. Autumn, winter, spring. 2 to 5 cr. Prerequisite, consent of instructor; course 101 or 102; and 105 or 106; or equivalent. The results of modern experimental biology; lectures, conferences, and readings. Each student may be assigned individual work, intended as training in methods, illustration of principles, and preparation for research. Mr. Castle. Mr. Matson.

For Graduates

200. Advanced Biological Problems. 1 to 3 Q. Autumn, winter, spring. Credit variable. Prerequisite, course 131 or equivalent, and consent of instructor. Opportunity is given graduate students with sufficient ability to pursue original investigations individually. Mr. Castle. Mr. Matson.

201. Research. 1 to 3 Q. Autumn, winter, spring. Credit variable. Prerequisite, training essential to the special topic undertaken. Research for graduate students majoring in zoology or bacteriology. Mr. Castle. Mr. Matson.
DIVISION OF THE HUMANITIES

Professor Harold G. Merriam, Chairman.

The following course is offered as a general survey of the field of the Humanities.

15abc. Introduction to the Humanities. 3 Q. Autumn, winter, spring. 5 cr. each quarter. Students may enter any quarter. Students who have completed 8 or more college credits in literature may not receive credit in this course. Acquaintance with art, music and literature through the centuries from the Greeks to Americans, with the primary aims of understanding and appreciation. Offered conjointly by the Departments of English, Fine Arts, Modern and Classical Languages, and the School of Music. Mr. Clark. Miss Heinsch. Mr. Freeman. Mr. Merriam. Mrs. Welsberg.

Classical Languages

Professor Wesley P. Clark (Chairman). Marguerite Heinsch, Instructor.

Major Requirements: The requirement is in attainment rather than credits. Four courses numbered above 100 should assure a good major in Latin. Two courses in Greek may be substituted for two in Latin. Humanities 15abc and History 15 and 16 are recommended.

Senior examinations will be required of all students who major in Latin.

General Information. Placement examinations are required of all students who continue a language in which entrance credit is presented. Students who offer two entrance units should enter Latin 13a; those offering four units, 15a, subject, however, to the placement examination. The Restricted Elective requirement is fulfilled upon completion of course 13a for students who present entrance units in Latin.

Latin

11abc. Elementary Latin. 3 Q. Autumn, winter, spring. 5 cr. each quarter. For students who enter with no credit in Latin. Miss Heinsch.

13abc. Intermediate Latin. 3 Q. Autumn, winter, spring. 5 cr. each quarter. Summer, 13a. 4 cr. Prerequisite, Latin 11c or equivalent. (a) Selections from Cicero and other studies for literary and historical value. (b) Vergil's Aeneid I-VI. Introduction to poetry; reading of hexameter; appreciation of permanent values of the Aeneid. Miss Heinsch.

15ab. College Freshman Latin. 2 Q. Autumn, winter. 5 cr. each quarter. Prerequisite, Latin 13c or equivalent. (a) Readings from Cicero's De Senectute and De Amicitia, or from Livy. (b) The Odes of Horace. Reading of the commonest metrical forms; outline of Roman literature. Mr. Clark.

101. Pliny and Martial. 1 Q. Any quarter. 5 cr. Prerequisite, Latin 15b and junior standing. Not given in 1936-37. Mr. Clark.

102. Catullus and Terence. 1 Q. Any quarter. 5 cr. Prerequisite, Latin 15b and junior standing. Not given in 1936-37. Mr. Clark.

115. Advanced Latin. 1 Q. Winter. 5 cr. Prerequisite, Latin 15b and junior standing. The philosophy of the Greeks and Romans based on the Tusculan Disputations of Cicero; selections from Seneca. Mr. Clark.

139. Lucretius. 1 Q. Spring. 5 cr. Prerequisite, Latin 15b and junior standing. Reading and appreciation of portions of De Rerum Natura. Not given in 1936-37. Mr. Clark.

140. Tacitus, Minor Works and Histories. 1 Q. Autumn. 5 cr. Prerequisite, Latin 15b and junior standing. Not given in 1936-37. Mr. Clark.


143. Life and Works of Vergil. 1 Q. Autumn. 5 cr. Prerequisite, Latin 15b and junior standing. Selected Eclogues: parts of the Georgics; review of Aeneid I-VI; reading of Aeneid VII-XII. Not given in 1936-37. Mr. Clark.
145. Roman Comedy. 1 Q. Autumn. 5 cr. Prerequisite, Latin 15b and junior standing. Mr. Clark.

147. Latin of the Late Empire. 1 Q. Winter. 5 cr. Prerequisite, Latin 15b and junior standing. Selections from late pagan and early Christian writings. Not given in 1936-37. Mr. Clark.

149. Writing Latin (Advanced). 1 Q. Spring. 4 cr. Prerequisite, Latin 15b and junior standing. Prepared exercises in translating into Latin from text-book or selected passages of English. Given in 1936-37, and in alternate years. Mr. Clark.

200. Research in Latin. 3 Q. Any quarter. Credit variable. Directed individual work. Course may be repeated by variation in content. Given subject to demand. Mr. Clark.

Greek

11ab. Elementary Greek. 2 Q. Winter, spring. 5 cr. each quarter. The reading method used; Attic Greek read from the first. Forms, vocabulary, idioms learned by use only. Mr. Clark.

13ab. Intermediate Greek. 2 Q. Autumn, winter. 3 cr. each quarter. Prerequisite, Greek 11b or equivalent. (a) Selections from Plato and Herodotus. (b) Introduction to Greek Tragedy. Mr. Clark.

15a. Advanced Greek. 1 Q. Spring. 3 cr. Prerequisite, Greek 13b or equivalent. Selections from Lucian. Mr. Clark.

S185. The Ancient Greeks and Modern Life. 1 Q. Summer. 2½ cr. Prerequisite, senior standing or consent of instructor. A consideration, through translations, books of interpretation and lectures, of some of the most interesting and suggestive aspects of ancient Greek thinking. No knowledge of Greek required. This course does not apply toward the restricted elective requirement in Foreign Languages. Not given in 1935-36. Mr. Clark.

Further work in Greek will be offered as there may be a demand for it; the work will be suited to the interest of the students.

English

Professors Edmund L. Freeman, Harold G. Merriam (Chairman), Lucia B. Mirrielees; Associate Professor Rufus A. Coleman; Assistant Professor Ernest H. Henrikson. Donal Harrington, Dennis Murphy, H. W. Whicker, Instructors. Kenneth Spaulding, Graduate Assistant.

Major Requirements: 32 credits in addition to English 11ab and Humanities 15abc. The required courses in English are listed in the four outlines given below, which are designed for students of four different types of needs and interests. By the beginning of his junior year the student should have decided definitely which of the four schedules he is to follow. Fine Arts 31abc, Music 35abc and at least two quarters of study in each of the fields of psychology and sociology are strongly recommended. A reading knowledge in the literature of some foreign language, classical or modern, is required.

Senior examinations must be taken by all students who do major work in English. The examinations will require elementary knowledge of critical literary terms, knowledge of the fields of literature the student has studied in courses and of a special field in which he has read independently. By the end of the second quarter of his junior year the student will indicate to his adviser the field in which he wishes to read and receive guidance from him.

Students who plan to teach English in high school are expected to complete at least twelve credits of courses in literature.
Required in all Schedules
Freshman Year: Humanities 15abc.
Sophomore Year: 11ab and 30 or 32, or 11a and 30 or 32, or 11b and 30 or 32.
Senior Year: 196.

A. For Students Who Expect to do Graduate Work or to Teach English in a High School.
Junior and Senior Years: 59abc (two quarters); a year's sequence of courses 189abc, or 187, 165, 164, or 173, 174, 180; 192 (one quarter); 199 (two quarters). Education 105 and English 69 required of prospective teachers.

B. For Students Who Desire Literary Information and Appreciation.
Junior and Senior Years: 75, 76 (one quarter); 77, 83, 178 (one quarter); 189abc, 187, 165, 164, 173, 174, 180 (two quarters); 86.

C. For Students Primarily Interested in Creative Writing.
Junior and Senior Years: 72abc, 160abc, 163 (six credits); 161abc (two quarters); 187; 86, 75, 76, 77, 378 (two quarters).

D. For Students Primarily Interested in Speech, Dramatics and Drama.
Junior and Senior Years: 62, 69, 77, 83, 178, 173, 187 (three quarters). Recommended for drama students, 163.

For Undergraduates

A. Preparatory Composition. 1 Q. Autumn. Winter. Spring. No credit. Sub-freshman course designed to meet the needs of freshmen who fail to establish an acceptable college standard in the English placement examination at the time of entrance. Mr. Spaulding.

11ab. English Composition. 2 Q. Autumn, winter. Winter, spring. 3 cr. each quarter. Summer 11a, 3 cr. Required of all students in the sophomore year. Freshmen who place high in the placement examination may be exempted from 11a and in the sophomore year proceed at once to 11b or 30 or 32. The gathering and organization of material for the writing of papers, and the development of personal ideas. Study of words and syntax. The English Staff.


21. Argumentation. 1 Q. Winter. 5 cr. Open to freshmen, but only with the consent of the instructor. Lectures and class discussions upon the principles of thinking, research, testing of evidence and brief drawing. Mr. Henrikson.

24. Debate. 1 Q. Winter. 2 cr. Prerequisite, English 21. For varsity debaters only. This course may not be repeated for credit. Mr. Henrikson.

26. Speech Clinic. 1 Q. Autumn. Winter. Spring. No credit. Open to any student who has a voice or speech defect. Classes limited to five persons. Mr. Henrikson.

329. Lectures. 1 Q. Summer. 1 cr. Open to all students.

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

32. Narration and Description. 1 Q. Winter. 4 cr. May be taken in lieu of English 11b or 30 by sophomores who have made a grade of A or B in 11a, or have been exempted from 11a, or by any student who has completed 11b. A beginner's course in the writing of fiction. Mr. Murphy.

53. Contemporary Magazines. 1 Q. Autumn. 4 cr. Prerequisite, sophomore standing. Reading of contemporary periodicals. Miss Mirrie-lees.
Courses in English


55b. Contemporary Literature. 1 Q. Spring. 4 cr. Prerequisite, sophomore standing. Man in conflict and adjustment: race, class, war. Miss Mirrielees.

57a. Shakespeare. 1 Q. Autumn. Spring. 4 cr. Prerequisite, sophomore standing. A chronological study of fourteen of the plays of Shakespeare. Mr. Murphy.

57b. Shakespeare. 1 Q. Winter. 4 cr. Prerequisite, sophomore standing. An intensive study of two or three plays.

S58. General Literature. 1 Q. Summer. 4 cr. Open to sophomores, or to freshmen who intend to major in English. The aims and values in types of literature.

S59abc. American Literature. 3 Q. Autumn, winter, spring. 4 cr. each quarter. Summer. 59b, 4 cr. Prerequisite, sophomore standing. American thought and feeling as reflected in our literature from the earliest to present days. Mr. Whicker.

62. Dramatic Presentation. 1 Q. Autumn. Summer. 4 cr. Prerequisite, junior standing. The fundamentals of direction, staging, lighting, make-up. Mr. Harrington.

69. Oral Interpretation of Literature. 1 Q. Winter. Summer. 4 cr. Prerequisite, junior standing. Practice in reading aloud with criticism. Mr. Henrikson.

72abc. Literary Composition. 3 Q. Autumn, winter, spring. 1-2 cr. each quarter. Prerequisite. English 30 or 32 or consent of the instructor on the basis of submitted writings or recommendation of an instructor in composition. Section I will do fiction writing; Section II will write verse, sketches, possibly essays. Mr. Murphy. Mr. Whicker.

75. English Novelists. 1 Q. Winter. 4 cr. Prerequisite, junior standing. A course designed to develop a sense of prose style, some critical standards for fiction, and an intelligent interest in and sympathy with all sorts of people, by the reading and discussion of the novels of Fielding, Austen, Thackeray, Eliot, Trollope. Given in 1936-37, and in alternate years. Mr. Murphy.

76. Masters of Fiction. 1 Q. Spring. 4 cr. Prerequisite, junior standing. Study of novels, either of the present or the past, by the great novelists of the world—Balzac, Flaubert, Hugo, Tolstoi, Turgenev, Howells, James, Meredith. Given in 1936-37, and in alternate years. Mr. Murphy.

77. Modern Drama. 1 Q. Winter. 4 cr. Prerequisite, junior standing. From Ibsen to contemporary dramatists. Given in 1937-38, and in alternate years.

83. World Drama. 1 Q. Winter. 4 cr. Prerequisite, junior standing. A study, primarily, of comedy and melodrama. Given in 1937-38, and in alternate years.

88. General Reading. 1 Q. Spring. 2 cr. Open to junior and senior men only. Reading and discussion of ten books. Given in 1936-37. Mr. Whicker.

For Undergraduates and Graduates

105. The Teaching of English. 1 Q. Winter. 3 cr. Prerequisite, senior standing and consent of instructor. Miss Mirrielees.

S158. Pre-Shakespearean Drama. 1 Q. Summer. 4 cr. Prerequisite, junior standing and one year of work in literature.

S159. American Literary Criticism. 1 Q. Summer. 4 cr. Prerequisite, 8 credits of American literature, or consent of instructor and junior standing.

160abc. Imaginative Writing. 3 Q. Autumn, winter, spring. Summer. 1-2 cr. each quarter. Continuous for two quarters. May be entered any quarter. Prerequisite, one course in writing above 11b, or consent of instructor on the basis of a submitted manuscript. Experiments in writing; laboratory work. Mr. Merriam.

S160d. Imaginative Writing: Magazine Articles. 1 Q. Summer. 1-2 cr. Prerequisite, junior standing and consent of instructor. This is not a duplication of course S160d as given previous to 1932-33.


161c. Style. 1 Q. Spring. 2 cr. Consideration of such qualities, in a writer and his writings, as sincerity, adjustment of language to intentions, ear for sound, color in language, vitality. Not given in 1936-37. Mr. Merriam.

S162. Authorship. 1 Q. Summer. 1-2 cr. Prerequisite, junior standing and consent of instructor. An advanced course for students who have taken a course in short story writing, or have otherwise given evidence of their ability.

163. Playwriting. 3 Q. Autumn, winter, spring. Summer. 1-2 cr. each quarter. Continuous for two quarters. Prerequisite, consent of the instructor. Theory and practice of dramatic writing.

164. Chaucer. 1 Q. Spring. 4 cr. Prerequisite, junior standing and English 165; 187 recommended. Chaucer considered as a story-teller, poet, voice of the fourteenth century. Given in 1937-38, and in alternate years. Miss Mirrielees.

165. Middle English Literature. 1 Q. Winter. 4 cr. Prerequisite, junior standing; English 187 recommended. Thought of the Middle Ages. Brief consideration of: the beginnings of prose, drama, metrical romance; Wyclif; panelists, Caxton; social, religious, and political verse. Given in 1937-38, and in alternate years. Miss Mirrielees.

173. The Renaissance in English Literature. 1 Q. Autumn. 4 cr. Prerequisite, junior standing and English 173 or History 13a recommended. Study of the new learning and new feeling as expressed in the works of Wyatt, Surrey, Spenser, and Sidney. The educational ideal and ethical function of literature as expressed in the prose fiction of the period. Representative drama, exclusive of Shakespeare. Given in 1936-37, and in alternate years. Mr. Coleman.

174. Literature of the Seventeenth Century. 1 Q. Winter. 4 cr. Prerequisite, junior standing and English 173 or History 13a. Cavalier lyricists; religious poets: Bacon, Milton, Bunyan, Dryden. Given in 1936-37, and in alternate years. Mr. Freeman.

178. Tragedy. 1 Q. Spring. 4 cr. Prerequisite, junior standing and any course in drama. Study of the nature of tragedy; reading of great tragedies in the world's literature. Given in 1936-37, and in alternate years. Mr. Merriam.

180. Literature of the Eighteenth Century. 1 Q. Spring. 4 cr. Prerequisite, junior standing and two courses in literature. The verse and prose writers: beginnings of the romantic revolt; Johnson and his circle. Given in 1936-37, and in alternate years. Miss Mirrielees.


199abc. Currents in Nineteenth Century Literature. 3 Q. Autumn, winter, spring. 3 cr. each quarter. Summer. 2½ cr. Prerequisite, junior standing and two courses in literature. Students may enter any quarter. Intention is to gain acquaintance with social conditions and activity, social theories of literary men, the changing philosophical and religious attitudes, and changes in literary aims, standards, and taste. Not given in 1936-37. Mr. Freeman. Mr. Merriam.

192. Studies in Major Writers. 1 Q. Autumn. Winter. Spring. Summer. 3 cr. Prerequisite, senior standing and consent of instructor. Subject and instructor change from year to year: 1936-37, Autumn, Miss Mirrielees; Winter, Mr. Merriam; Spring, Mr. Merriam.

196. English Club. 3 Q. Autumn, winter, spring. 1 cr. each quarter. Open to English major students in the senior year. Discussion of literary terms and forms; current trends in literary criticism; reports on research papers. Mr. Merriam.

198abc. Studies in English. 3 Q. Autumn, winter, spring. 2-3 cr. each quarter. Open to seniors who are English major students and who have a good scholarship record, after consultation with Mr. Merriam. Independent work, guided by instructors, and tested upon completion by both written and oral examinations. The English Staff.

199. Seminar. 3 Q. Autumn, winter, spring. 1-3 cr. each quarter. Summer. 1-2 cr. Prerequisite, senior standing and consent of instructor. Instruction and practice in methods of literary study. Mr. Merriam.

For Graduates

299. Seminar. 3 Q. Autumn, winter, spring. 1-3 cr. each quarter. Summer. 1-2 cr. Open only to graduate students after consultation with the instructor. Mr. Freeman and the English Staff.
Courses in Fine Arts

Assistant Professor George Yphantis.

Major Requirements: 52 or more credits, including courses: Fine Arts 23, 30abc, 31abc, and ten credits of 123.

Senior examinations will not be given except to candidates for honors.

For Undergraduates

S13. Elementary Design. 1 Q. Summer. 1 cr. Open to all students. Analysis of the decorative properties of line, value, color, area, pattern; abstract and naturalistic problems of design and the study of historical ornament. Mr. Yphantis.

S21. Fundamentals of Art Appreciation. 1 Q. Summer. 1 cr. Open to all students. Lectures and discussions on modern art. Analysis of the essentials in architecture, painting, and sculpture. Mr. Yphantis.

23. Drawing. 3 Q. Autumn, winter, spring. 15 cr. Continuous any two quarters. Summer, 1 cr. Open to all students in the autumn quarter. An intensive course in the fundamentals of drawing taught from indoor and outdoor subjects, still life, casts, models in various media including pencil, charcoal, crayon, watercolor, and oil. Perspective is taught in the autumn quarter; artistic anatomy in the winter quarter, by lectures illustrated with diagrams, the skeleton, anatomical casts, and the living model; portrait composition is included in the work of the spring quarter. Mr. Yphantis.

30abc. Painting. 3 Q. Autumn, winter, spring. 5 cr. each quarter. Summer. 2 cr. Prerequisite, Fine Arts 23. Theory of color, still life painting and composition, painting from the cast, and landscape. Mr. Yphantis.

31abc. History of Art. 3 Q. Autumn, winter, spring. 4 cr. each quarter. Summer 31b, 2 cr. Prerequisite, junior standing or consent of instructor. (a) Prehistoric art to Roman art. (b) Art of the Middle Ages through the art of the Italian Renaissance. (c) Late Renaissance and Modern art: Oriental art. A comprehensive treatment of every important art movement related to corresponding social and mental backgrounds, together with a thorough analysis and appreciation of the fundamentals of painting, sculpture, and architecture. Mr. Yphantis.

For Undergraduates and Graduates

123. Advanced Painting. 2 Q. Autumn, winter. Prerequisite, Fine Arts 30abc, or 10 credits of 30abc and consent of instructor. Portrait, figure, and landscape painting and composition. Graduates may repeat this course for credit with consent of instructor. Mr. Yphantis.

Library Economy

Professor Philip O. Keeney (Chairman); Assistant Professors M. Winnifred Feighner, M. Catherine White, Winona Adams, Helen Duncan, Lucile Speer, Instructors.

Major Requirements: 42 or more credits, including Library Economy 14ab, 16, 18, 20abc, 22ab, 24, 26, 28ab. Twenty credits are required in both French and German.

Senior examinations will not be given except to candidates for honors.

Students who major in this department are required, either in their freshman or sophomore year, to do field work in some county or city library of the state which contains 10,000 volumes. Not less than fifteen hours a week for a period of not less than ten weeks must be spent at this work. No credit will be given for such work.

Ability to use a typewriter is necessary.
For Undergraduates

14ab. Classification. 2 Q. Autumn, winter. 3 cr. each quarter. Prerequisite, junior standing. History of classification; comparison of the common systems; a detailed study of the Dewey decimal system. Choice of subject headings for a dictionary catalogue. Offered in 1936-37, and in alternate years. Miss Adams.


18. Cataloguing and Classification. 1 Q. Spring. 3 cr. Prerequisite, junior standing. Cataloguing and classification of material which illustrates the problems of this work with special reference to different types of libraries. Offered in 1936-37, and in alternate years. Miss Adams.

20abc. Reference. 3 Q. Autumn, winter, spring. 3 cr. each quarter. Prerequisite, junior standing. Introduction to common and specialized reference works in English and the common works in foreign languages. Problems pertaining to the practical work in the reference department based upon a working knowledge of reference works. Offered in 1935-36, and in alternate years. Miss White.

22abc. Book Selection. 3 Q. Autumn, winter, spring. 3 cr. each quarter. Prerequisite, junior standing. Principles and practice in book selection. Reading and reviewing of selected books; practice in the use of aids, in the making of selected lists, in the writing of book notes. Offered in 1935-36, and in alternate years. Miss Feighner. Mr. Keeney.


26. Library Practice. 3 Q. Autumn, winter, spring. 1 to 3 cr. each quarter. Prerequisites, sophomore standing and consent of instructor. Students may enter any quarter. Not more than four credits may be earned in one year. Majors in Library Economy must offer four credits in this course. Specially planned practice work under the supervision of the librarians of the city, county, and university libraries. Miss Feighner. Mr. Keeney.

28ab. Library Administration. 2 Q. Autumn, spring. 3 cr. each quarter. Prerequisite, junior standing. An outline of all the phases of librarianship showing the relationship of the various departments within a library. Attention given to all problems of administration. Offered in 1936-37, and in alternate years. Miss Feighner. Mr. Keeney.

31. Book Buying, Ordering, and Trade Bibliography. 1 Q. Spring. 2 cr. Prerequisite, junior standing. Routine of ordering; lectures on the importation of books; book dealers; allocation of book funds; trade discounts. Offered in 1936-37, and in alternate years. Mr. Keeney.

33. Story Telling. 1 Q. Winter. 2 cr. Prerequisite, junior standing. Not given in 1936-37.


41. History of the Book. 1 Q. Winter. 2 cr. Prerequisite, junior standing. The evolution of the book; emphasis on the important development of printing in the occidental world after 1450. Offered in 1935-36, and in alternate years. Mr. Keeney.

Modern Languages

PROFESSORS RUDOLPH O. HOFFMAN, FREDERICK C. SCHETUCH (CHAIRMAN), BART E. THOMAS; ASSOCIATE PROFESSORS LOUISE G. ARNOLDSON, PAUL A. BISCHOFF, RUDOLPH SCHLUETER, FLORA B. WEISBERG, INSTRUCTORS.

General Information. Not more than 90 credits in all languages may be counted towards the Bachelor of Arts degree. Placement examinations are required of all entering students who continue languages in which entrance credit is presented. See page 20. Students
who have one high school unit in a modern language should enter course 13a; those with two units, 15; those with three units, courses number over 100, subject, however, to a placement examination.

Senior examinations will not be given except to candidates for honors.

French

**Major Requirements.** Candidates for the degree of Bachelor of Arts in French must meet the following requirements:

1. French 11 to 119 inclusive, or equivalent, and 15 credits selected from courses numbered 121 to 130 inclusive. If a student, on the basis of a placement examination, places in a course numbered over 100, 18 credits may be the minimum requirement.

2. Five quarters (or equivalent) of another language. Students should not start another language until they have had three quarters of work in the first language.

3. Three quarters in the history of Europe, chosen from the following: History 29, 30ab, 33, 34, 35.

**For Undergraduates**


13a. **Intermediate French.** 1 Q. Autumn. Spring. 5 cr. Summer. 4 cr. Prerequisite, French 11 or equivalent. French staff.

13b. **Intermediate French.** 1 Q. Autumn. Winter. 4 cr. Prerequisite, French 12a or equivalent. French staff.

14. **Scientific French.** 1 to 3 Q. Winter. Spring. 3 to 5 cr. each quarter. Students may enter any quarter. Prerequisite, French 13b and consent of instructor. A service course for students majoring in a field requiring a reading knowledge of French for advanced work. More than one quarter recommended. Mr. Hoffman.

15. **Advanced French.** 1 Q. Autumn. Winter. Spring. Summer. 4 cr. Prerequisite, French 13b or equivalent. French staff.

**For Undergraduates and Graduates**

117. **French Grammar Review and Composition.** 1 Q. Autumn, Winter. Spring. 4 cr. Prerequisite, French 15 or equivalent. French Staff.

119. **General Survey of French Literature.** 1 Q. Autumn, Spring. 3 cr. Prerequisite, French 117 or equivalent. From Villon to 1870. French staff.

121. **The 17th Century French Literature.** 1 Q. Autumn. 3 cr. Prerequisite, French 117 or equivalent. Given in 1937-38, and in alternate years. Mr. Hoffman.

123. **The 18th Century French Literature.** 1 Q. Winter. 3 cr. Prerequisite, French 117 or equivalent. Given in 1937-38, and in alternate years. Mrs. Arnoldson.

125. **The Cultural Background of French Literature.** 1 Q. Autumn. 3 cr. Prerequisite, French 117 or equivalent. Given in 1936-37, and in alternate years. Mr. Hoffman.

126. **French Poetry.** 1 Q. Spring. 3 cr. Prerequisite, French 117 and one other course numbered over 100, or equivalent. Given in 1937-38 and in alternate years. Mr. Hoffman.

127. **The 19th Century French Literature.** 1 Q. Winter. 3 cr. Prerequisite, French 117 or equivalent. Given in 1936-37 and in alternate years. Mrs. Arnoldson.

131. **Advanced French Composition.** 1 Q. Spring. 3 cr. Prerequisite, French 117 and one more course numbered over 100, or equivalent. Given in 1936-37, and in alternate years. Mr. Hoffman.

132. **Studies in Outstanding Writers.** 1 or 2 Q. Winter. Spring. 1 to 3 cr. Prerequisite, French 117, senior standing, and consent of instructor. Writer and instructor change from quarter to quarter, and from year to year. Treated as a seminar. Not more than six credits may be applied towards graduation. French Staff.
German

Major Requirements. Candidates for the degree of Bachelor of Arts in German must meet the following requirements:

1. German 11 to 119 inclusive, or equivalent, and 15 credits selected from the courses numbered from 121 to 130 inclusive. If a student, on the basis of a placement examination, places in a course numbered over 100, 18 credits may be the minimum requirement.

2. Five quarters (or equivalent) of another language. Students should not start another language until they have had three quarters of work in the first language.

3. Three quarters in the history of Europe, chosen from the following: History 29, 30ab, 33, 34, 35.

Senior examinations will not be given except to candidates for honors.

For Undergraduates

11. Elementary German. 2 Q. Autumn, winter. Winter, spring. Continuous, 10 cr. Summer, 11a. 4 cr. German staff.
12a. Intermediate German. 1 Q. Autumn, Spring. 5 cr. Summer. 4 cr. Prerequisite, German 11 or equivalent. German staff.
12b. Intermediate German. 1 Q. Autumn. Winter. 4 cr. Prerequisite, German 11a or equivalent. German staff.

14. Scientific German. 1 to 3 Q. Autumn. Winter, Spring. 3 to 5 cr. each quarter. Prerequisite, German 13b and consent of instructor. A service course for students majoring in a field requiring a reading knowledge of German for advanced work. Mr. Scheuch.

15. Advanced German. 1 Q. Winter. Spring. Summer. 4 cr. Prerequisite, German 13b or equivalent. German Staff.

16. Newspapers and Periodicals. 1 to 6 Q. Any quarter. 1 cr. each quarter. Prerequisite, German 15 or equivalent. A course enabling students to keep in touch with the language of the day; of particular interest to students expecting to work for advanced degrees in science. Mrs. Weisberg.

For Undergraduates and Graduates

117. German Grammar, Composition, Conversation. 1 Q. Spring. 4 cr. Prerequisite, German 15 or equivalent. Mr. Scheuch. Mrs. Weisberg.
119. General Survey of German Literature. 1 Q. Autumn. 3 cr. Prerequisite, German 15 or equivalent. Given in 1937-38, and in alternate years. Mr. Scheuch. Mrs. Wilsberg.

120. Lessing. 1 Q. Autumn. 2 cr. Prerequisite, German 15 or equivalent. Given in 1935-36, and in alternate years. Mr. Scheuch. Mrs. Wilsberg.

121. Goethe and Schiller (Early Works). 1 Q. Winter. 3 cr. Prerequisite, German 15 or equivalent. Period of Goethe’s youth. Given in 1935-36, and in alternate years. Mr. Scheuch. Mrs. Wilsberg.

122. German Lyrics. 1 Q. Winter. 2 cr. Prerequisite, German 15 or equivalent. Period of Schiller’s youth. Given in 1935-36 and in alternate years. Mr. Scheuch. Mrs. Wilsberg.

123. Goethe and Schiller (Classical Drama). 1 Q. Spring. 3 cr. Prerequisite, German 15 or equivalent. Given in 1935-36, and in alternate years. Mr. Scheuch. Mrs. Wilsberg.

124. Goethe’s Faust. 1 Q. Spring. 2 cr. Prerequisite, German 15 or equivalent. Given in 1935-36, and in alternate years. Mr. Scheuch. Mrs. Wilsberg.

125. Cultural Background of German Literature. 1 Q. Autumn. 3 cr. Prerequisite, German 15 or equivalent. Given in 1936-37, and in alternate years. Mr. Scheuch. Mrs. Wilsberg.

126. Heine. 1 Q. Autumn. 2 cr. Prerequisite, German 15 or equivalent. Given in 1935-36, and in alternate years. Mr. Scheuch. Mrs. Wilsberg.

127. The 19th Century Novel. 1 Q. Winter. 3 cr. Prerequisite, German 15 or equivalent. Given in 1935-36, and in alternate years. Mr. Scheuch. Mrs. Wilsberg.

128. The 19th Century Drama. 1 Q. Winter. 2 cr. Prerequisite, German 15 or equivalent. Given in 1936-37, and in alternate years. Mr. Scheuch. Mrs. Wilsberg.
Spanish courses offer preparation (1) for prospective teachers or for those interested in literary information and (2) for students contemplating consular service, commercial work in Spanish-American countries, or governmental work.

Major Requirements: For (1) above, courses 11 to 119 inclusive, or equivalent, 15 credits selected from courses 121 to 133 inclusive, and History 23ab (Hispanic-American).

For (2) above, during the first two years students should complete courses 11 through 117, or equivalent, Social Science 11abc, Economics 14abc, and Psychology 11. The curriculum outlined below should be completed during the second two years.

Junior year: English 59abc, or 180abc, or 20, 69, and 76; Spanish 131 and 125; Economics 15 or 16; History 25ab; Business Administration 152 (Foreign Trade), 41 (Business Law), or History 106ab (International Law).

Senior year: English 83, or 55b; Spanish 132; Journalism 36; Economics 145 (Ethnography of the Americas), or 141 (Archaeology of North America).

Note: The total number of college credits required in Spanish varies with the student’s high school preparation; the minimum requirement is 18 credits. Students who intend to complete the work in this field should consult early with the adviser of Hispanic studies.

For Undergraduates


13a. Intermediate Spanish. 1 Q. Autumn. Spring. 5 cr. Summer. 4 cr. Prerequisite, Spanish 11 or equivalent. Spanish staff.

13b. Intermediate Spanish. 1 Q. Autumn. Winter. 4 cr. Prerequisite, Spanish 13a or equivalent. Spanish staff.

15. Advanced Spanish. 1 Q. Autumn. Winter, Spring. Summer. 4 cr. Prerequisite, Spanish 13b or equivalent. Spanish staff.

For Undergraduates and Graduates

117. Spanish Grammar, Composition, Conversation. 1 Q. Autumn. Spring. 4 cr. Prerequisite, Spanish 15 or equivalent. Mr. Thomas.

119. General Survey of Spanish Literature. 1 Q. Autumn. 3 cr. Prerequisite, Spanish 117. A general survey of the literary history of Spain, assigned readings, and class discussions of masterpieces. Mr. Thomas.

121. Spanish American Literature. 1 Q. Spring. 3 cr. Prerequisite, Spanish 117. Given in 1937-38, and in alternate years.

122. Spanish Novel and Drama of the Nineteenth Century. 1 Q. Winter, 3 cr. Prerequisite, Spanish 117. Romanticism, the novel, and the drama of this century. Given in 1937-38, and in alternate years.

123. Spanish American Literature. 1 Q. Spring. 3 cr. Prerequisite, Spanish 117. Given in 1936-37, and in alternate years. Mr. Thomas.

127. Contemporary Spanish Drama. 1 Q. Autumn. 3 cr. Prerequisite, Spanish 117. Given in 1936-37, and in alternate years. Mr. Bischoff.

129. Contemporary Spanish Novel. 1 Q. Winter. 3 cr. Prerequisite, Spanish 117. Given in 1936-37, and in alternate years. Mr. Bischoff.

131. Commercial Spanish. 1 Q. Winter. 3 cr. Prerequisite, Spanish 117. Writing of Spanish commercial letters and a study of commercial practices in Spanish America. Designed for students in Hispanic studies. Given in 1937-38, and in alternate years.

132. Spanish American Civilization. 1 Q. Spring. 3 cr. Prerequisite, Spanish 117 for majors in Spanish or Hispanic studies who will do their
collateral readings in Spanish; for other students, junior or senior standing. A study of the ideals, habits, and present social conditions of the peoples of Spanish America. Spanish staff.

133. Seminar. 2 Q. Winter, spring. 2-3 cr. Open to Spanish major students with senior standing. Topics offered for study: outstanding authors and literary movements of Spain and Spanish America. All majors must take at least one quarter of course 133; not more than 6 credits may be applied toward graduation. Mr. Thomas.

DIVISION OF PHYSICAL SCIENCES

Professor Archibald S. Merrill, Chairman.

The following course is offered as a general survey of the field of Physical Sciences.

17. Introduction to Physical Science. 3 Q. Autumn, winter, spring. Continuous. 15 cr. Students who have 8 or more college credits in chemistry or physics may not receive credit in this course. Consideration is given to astronomical phenomena and concepts; chemical changes and their uses; geological features and processes; the various theories of matter and energy as well as the laws and principles that describe their behavior and application. A text-book fee of seventy-five cents is charged each quarter. Given conjointly by the Departments of Chemistry, Mathematics and Physics. Mr. Jesse. Mr. Little. Mr. Merrill. Mr. Shallenberger.

Chemistry

Professors William G. Bateman, Joseph W. Howard, Richard H. Jesse (Chairman).

Major Requirements: 50 credits, including Chemistry 13, 15 cr.; 15, 5 cr.; 17 and at least 2 cr. of 111, 7 to 10 cr.; 101, 10 cr.; 106, 10 cr.; 113, 3 cr. At the time of his graduation, a major student in Chemistry should have acquired a reading knowledge of German or French, and a working knowledge of English Composition. College Physics, Algebra, Trigonometry, Analytic Geometry, Calculus and Elementary Mineralogy.

Senior examinations will not be given except to candidates for honors.

For Undergraduates

13. Inorganic Chemistry and Qualitative Analysis. 3 Q. Autumn, winter, spring. Continuous. 15 cr. Prerequisite, one year of chemistry in high school or sophomore standing. The fundamental laws of chemistry; properties and relations of the non-metallic and metallic elements; theory and methods of inorganic qualitative analysis. Mr. Bateman. Mr. Howard.

15. Qualitative Analysis. 1 Q. Winter. 5 cr. Prerequisite, Chemistry. A continuation of course 13c. Mr. Bateman.

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


For Undergraduates and Graduates

101. The Carbon Compounds. 2 Q. Autumn, winter. Continuous. 10 cr. Prerequisite, Chemistry 13. Students who have taken Chemistry 19 will not receive full credit for this course. A detailed, systematic study of organic chemistry. Intended for chemistry majors and premedical students. Mr. Howard.

102. Organic Qualitative Analysis. 1 Q. Spring. 2 cr. Prerequisite, Chemistry 101. Systematic methods of identification of pure organic compounds and mixtures; general class reactions of organic chemistry. Mr. Howard.
103. **Physiological Chemistry.** 1 Q. Spring. 5 or 6 cr. Prerequisite, Chemistry 19 or 101. Chemistry of the human body; blood, bile, urine, feces, milk, etc. Mr. Bateman.

106. **Physical Chemistry.** 2 Q. Autumn, winter. Continuous. 10 cr. Prerequisite, Chemistry 17, 101, and enrollment in college physics. A knowledge of calculus is desirable. The prerequisite in organic chemistry may be waived at the discretion of the instructor for students majoring in other departments who present two quarters of calculus and additional courses in physics. The more important methods, results, and problems of theoretical chemistry. Mr. Jesse.

108. **Inorganic Industrial Chemistry.** 1 Q. Spring. 5 cr. Prerequisite, Chemistry 17 and 101. The chemistry of industrial and engineering materials and the discussion of technical chemical processes. Given in 1936-37, and in alternate years. Mr. Howard.

110. **Organic Industrial Chemistry.** 1 Q. Spring. 5 cr. Prerequisite, Chemistry 13 or 15 and 101. Given in 1937-38, and in alternate years. Mr. Howard.

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

113abc. **Journal Club.** 3 Q. Autumn, winter, spring. 1 cr. each quarter. Prerequisite, Chemistry 17, 101, and a reading knowledge of German or French. Course does not apply to the restricted elective requirement in science unless credit is offered in Geology 11ab. Mr. Rowe.

### For Undergraduates

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

## Geology

**Professor Jesse P. Rowe (Chairman); Associate Professor Charles Deiss.**

**Major Requirements:** 50 or more credits, including Geology 11ab, 22, 23, 24, 26, 35, and 121. Major students should have the equivalent of 25 credits in Modern Languages, and must have a reading knowledge of German or French. Forestry 41abc, Mathematics 12, Chemistry 13, and Physics 22 should be completed. Students emphasizing Economic Geology and Petrology should take in addition: Chemistry 15 and 17, Mathematics 15 and 21, Physics 20 or Mathematics 22 and 23; those emphasizing Stratigraphy and Paleontology should take: Zoology 10 and 11 and 23 (Comparative Vertebrate Zoology), Botany 11b, and Economics 15 (Anthropology).

Senior examinations will not be given except to candidates for honors.

### For Undergraduates

11ab. **General Geology.** 2 Q. Autumn, winter. 5 cr. each quarter. Summer. 3 cr. The first quarter is given to a study of the origin and development of the surface features of the earth, and its broad structural features. The second quarter is directed to the origin and evolution of the earth and its organisms. Mr. Rowe. Mr. Deiss.

14. **Forestry Geology.** 1 Q. Spring. 3 cr. Open to students who have not completed Geology 11a. A general discussion of physical geology with reference to forestry problems. Mr. Rowe.

16. **Geography and Natural Resources of Montana.** 1 Q. Autumn. Winter. Spring. Summer. 3 cr. This course does not apply toward the restricted elective requirement in science unless credit is offered in Geology 11ab. Mr. Rowe.

17. **Gem Stones.** 1 Q. Winter. Summer. 2 cr. Open to all students. The properties, occurrence and determination of precious, semi-precious, and ornamental stones; methods of determining imitation and synthetic stones from real ones. Mr. Rowe.
22. **Historical Geology.** 2 Q. Autumn, winter. Continuous. 8 cr. Prerequisite, Geology 11a. The first quarter takes the study to the close of the Paleozoic era, and the second quarter continues it to the present time. Mr. Deiss.

23. **Stratigraphy of North America.** 1 Q. Spring. 4 cr. Prerequisite, Geology 22 or 111. The stratigraphic record of North America in terms of paleogeography. Mr. Deiss.

24. **Mineralogy.** 2 Q. Autumn, winter. Continuous for geology majors. 10 cr. Chemistry 13 is prerequisite or may be taken concurrently. The elements of crystallography and the classification and determination by means of physical properties, blowpipe analysis and other simple chemical tests, of about 175 common minerals of geologic and economic importance. Mr. Rowe.

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

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

### For Undergraduates and Graduates


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

103. **Mineral Deposits.** 2 Q. Winter, spring. Continuous. 10 cr. Prerequisite, Geology 26 and 101. A course in the more theoretical aspects of the geology of metallic mineral deposits. Mr. Rowe.

105. **Mining, Mineral, and Geological Law.** 1 Q. Spring. 3 cr. Prerequisite, junior standing and permission of instructor. Given in 1936-37, and in alternate years. Mr. Rowe.

111. **Invertebrate Paleontology.** 2 Q. Autumn, winter. Continuous. 8 cr. Prerequisite, Geology 11b; Zoology 10 and 11 recommended. An introduction to the understanding of fossil organisms with equal emphasis placed on anatomy, evolution, and faunas. Given in 1937-38, and in alternate years. Mr. Deiss.

121. **Structural Geology.** 1 Q. Spring. 4 cr. Prerequisite, Geology 11a, 22, 26, high school physics and Mathematics 12. A detailed study of the structural features of the earth's crust, presented largely by means of lectures and problems. Given in 1937-38, and in alternate years. Mr. Deiss.


135. **Geological Surveying.** 1 Q. Spring. 3 to 5 cr. Prerequisite, Geology 22, 26, and 35. Methods used in making a detailed study of field problems and preparing a formal report upon the investigation. Mr. Rowe. Mr. Deiss.

### For Graduates

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

### Home Economics

Professors Helen Gleason (Chairman), Anne Platt, Monica Burke Swearingen (Director of Residence Halls).

**Major Requirements:** 55 or more credits in Home Economics; these credits should include the courses listed in one of the three groups outlined below.

1. **Home-making:** 14, 15ab, 16, 21, 117, 119, 120, 122, 123 and 124.
2. Institutional Management: 14, 15ab, 16, 21, 117, 119, 122, 123, 124, 133, 135 and 139. Course 138 may be substituted for one of the advanced courses.

3. Teaching: 14, 15ab, 16, 21, 117, 119, 120, 122, 123, 124, 139 and 141. Course 138 may be substituted for one of the advanced courses. In addition, a major student qualifying to teach must take Chemistry 13, 19 and 103. Bacteriology 119a and Economics 16 are recommended.

Senior examinations will not be given except to candidates for honors.

For Undergraduates

14. Clothing. 1 Q. Autumn. Spring. 3 cr. A course for students who wish to acquire ability in clothing selection and construction. Miss Gleason.


16. Clothing Design. 1 Q. Autumn. 4 cr. Composition and color through the use of masterpieces and the application of art principles to clothing. Miss Gleason.

21. Foods. 1 O. Winter. 3 cr. Prerequisite, Home Economics 15 or its equivalent. Chemistry 13 is recommended. Meal planning, serving, marketing. Miss Platt.


For Undergraduates and Graduates

117. Textiles. 1 Q. Spring. 4 or 5 cr. Prerequisite, Home Economics 14, or 14 taken concurrently. Fibers, their manufacture and use; physical and chemical tests to aid in the selection of clothing and household furnishings. Miss Gleason.

119. House Planning and Furnishing. 1 Q. Winter. 5 cr. Summer. 4 cr. Prerequisite, junior standing. The aesthetic, economic and hygienic problems in house planning and furnishing. Miss Gleason.

120. Clothing. 1 O. Winter. 5 cr. Prerequisite, Home Economics 14 and 16; 117 recommended. The clothing problem of the family studied from the economic and social point of view. Miss Gleason.


124. Home Administration. 1 Q. Autumn. 5 cr. Home Economics 122 is prerequisite, or must be taken simultaneously; 119 is recommended. Problems in the profession of home-making, emphasizing child care and welfare. Miss Gleason.

133. Institutional Cookery. 1 Q. Autumn. 5 cr. Home Economics 122 is prerequisite, or must be taken simultaneously. The application of scientific, economic and sociological principles to the feedings of large numbers of people. Mrs. Swearingen.

135. Institutional Management. 1 Q. Winter. 5 cr. Prerequisite, Home Economics 133. Organization, management and equipment of special types of institutions, such as dormitories, hospitals, tea rooms, cafeterias and hotel dining rooms. Mrs. Swearingen.


139. Readings in Nutrition. 1 Q. Autumn. Winter. Spring. 2 to 4 cr. Course may be repeated during the succeeding quarters to a maximum of 4 cr. Prerequisite, Home Economics 122. Miss Platt.

141. Advanced Clothing Design. 1 Q. Spring. 4 cr. Prerequisite, Home Economics 120. The application of all the art principles in the carrying out of original designs in materials. Miss Gleason.

150. Clothing. 1 Q. Any quarter. 4 cr. Prerequisite, Home Economics 120 and 141. Special problems in costume design, which deal with the historical development of dress are designed for individual investigation. Originality in design is emphasized. Given subject to demand. Miss Gleason.
191. Problems in Nutrition. 1 to 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, Home Economics 122. Students may enter any quarter. Experimental work in nutrition with rat colony. Miss Platt.

Mathematics

Professors N. J. Lennes (Chairman), Archibald S. Merrill; Associate Professor Eugene F. A. Carey. Mabel Foster, Graduate Assistant.

Major Requirements: 45 or more credits. However, for students presenting three and a half entrance units in Mathematics, a 40 credit minimum, and for students with four entrance units, a 35 credit minimum may be permitted at the discretion of the Department. No student may offer in fulfillment of these minimum requirements more than four of the following courses or their high school equivalents: Mathematics 12, 13, 14, 16, 19, 21 or 25. Courses 10, 11 and 111 may not be counted toward a major in Mathematics. Students majoring in Mathematics must complete Physics 20abc or the equivalent.

Students who plan to teach mathematics in high schools are expected to complete Mathematics 21 as a minimum.

Senior examinations will not be given except to candidates for honors.

General Information. Major students are expected to take part in extra-curricular activities of the Department, such as the Mathematics Club and the Mathematics Fraternity.

The Mathematics Library contains complete sets of all the American mathematical journals, and several of the most important foreign journals, such as Crelle, Annalen, Liouville, Fortschrritte. Important new books are constantly added.

Courses 17, 31, and those numbered over 100 (except 101 and 107ab) are offered subject to demand.

For Undergraduates

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

11. Solid Geometry. 1 Q. Spring. 5 cr. Prerequisite, Mathematics 10, and one entrance unit in Plane Geometry. Students who present entrance credit in Solid Geometry cannot take this course for credit. Given in 1935-36, and in alternate years. Mr. Lennes. Mr. Carey. Mr. Merrill.

12. Survey of College Mathematics. 1 Q. Autumn. Winter. Spring. 5 cr. Summer. 4 cr. Prerequisite, 1 entrance unit of Algebra and 1 entrance unit of Plane Geometry and Mathematics 10 or equivalent. A prerequisite for all courses in Mathematics except courses 10, 11, 19, 25, and 35abc. Mr. Lennes. Mr. Carey. Mr. Merrill.

13. Plane Trigonometry. 1 Q. Winter. Spring. 5 cr. Prerequisite, Mathematics 10 or equivalent, and Mathematics 12. Students who present entrance credit in Trigonometry cannot take this course for credit. Mr. Lennes. Mr. Carey. Mr. Merrill.


16. College Algebra. 1 Q. Autumn. Spring. 5 cr. Summer. 4 cr. Prerequisite, Mathematics 12. Students who present 2 entrance units of high school Algebra cannot take this course for credit. The advanced part of the entrance Algebra should be taken not earlier than the third year of the high school course. Mr. Lennes. Mr. Carey. Mr. Merrill.
19. Mathematics of Investments, Elementary Course. 1 Q. Winter. 5 cr. Prerequisite, 1 entrance unit of Algebra and Mathematics 10 or 1½ entrance units of Algebra. Mathematics 19 may not be taken for credit by those who have had 25 or more credits in Mathematics. Mr. Lennes. Mr. Carey. Mr. Merrill.


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

22. Differential Calculus. 1 Q. Autumn. 5 cr. Prerequisite, Mathematics 21, and, with certain exceptions, Mathematics 16. Mr. Lennes. Mr. Carey. Mr. Merrill.

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


31. Teaching of Secondary Mathematics. 1 Q. Summer. 4 cr. Prerequisite, consent of instructor. Aims, purposes, and possible curricula for high school mathematics. Mr. Carey.

For Undergraduates and Graduates

101. Ordinary Differential Equations. 1 Q. Spring. 5 cr. Prerequisite, Mathematics 23. Mr. Lennes. Mr. Carey.

103. Synthetic Projective Geometry. 1 Q. Winter. 5 cr. Prerequisite, Mathematics 21. Mr. Merrill.

104. Theory of Equations. 1 Q. Winter. 5 cr. Prerequisite, Mathematics 22. Mr. Lennes. Mr. Carey. Mr. Merrill.

107ab. Selected Chapters in Calculus. 2 Q. Autumn, winter. 5 cr. each quarter. Prerequisite, Mathematics 22. Mr. Lennes. Mr. Carey.

125. Solid Analytic Geometry. 1 Q. Spring. 5 cr. Prerequisite, Mathematics 22. Mr. Lennes. Mr. Carey.

126ab. Analytic Mechanics. 2 Q. Autumn, winter. 5 cr. each quarter. Prerequisite, Mathematics 23. Mr. Carey.

150. Seminar. 1 Q. Any quarter. Credit variable. Registration on consultation with instructor. This course provides guidance in special work for advanced students. Mr. Lennes. Mr. Carey. Mr. Merrill.

For Graduates

240abc. Functions of a Real Variable. 3 Q. Autumn, winter, spring. 5 cr. each quarter. Mr. Lennes.

241. Functions of a Complex Variable. 1 Q. 5 cr. Mr. Lennes. Mr. Carey. Mr. Merrill.

243. Vector Analysis. 1 Q. 5 cr. Mr. Carey.

245. Theory of Sets of Points. 1 Q. 5 cr. Mr. Lennes.

246. Advanced Projective Geometry. 1 Q. Spring. 5 cr. Prerequisites, elementary projective geometry and a certain mathematical maturity. Mr. Lennes.

Astronomy

A11. Descriptive Astronomy. 1 Q. Spring. 5 cr. Summer. 4 cr. This course does not apply toward the restricted elective requirement in science. Mr. Lennes. Mr. Merrill.

A101. Celestial Mechanics. 1 Q. Autumn. 5 cr. Prerequisite, Mathematics 101 and 126a. Mr. Merrill.
Physics

Professor Garvin D. Shallenberger (Chairman); Associate Professor Edward M. Little.

Major Requirements: 40 or more credits in Physics. In preparation for the advanced courses, a student should take Physics 20abc in the sophomore year. Essential courses offered in other departments: Mathematics 13, 16, 21, 22, 23 and Chemistry 13. Students planning to teach should elect Psychology 11, and courses 18, 19, 22, 26, and 7 additional credits in the School of Education.

Senior examinations will not be given except to candidates for honors.

For Undergraduates

S11abc. General Physics. 1 Q. Summer. 4 cr. for each of the three courses. Prerequisite, a working knowledge of high school mathematics. (a) Mechanics and heat; (b) Sound, magnetism, part of electricity; (c) Electricity, light, modern physics. Students may not receive credits in both Physics S11abc and 20abc. Mr. Shallenberger.

20abc. General Physics. 3 Q. Autumn, winter, spring. 5 cr. each quarter. Prerequisite, sophomore standing and Mathematics 12 or 13; high school physics is desirable. This course satisfies medical school and technical requirements in general physics. (a) Mechanics and heat; (b) sound, electricity and magnetism; (c) light and modern physics. Mr. Shallenberger.

60. Weather. 1 Q. Autumn. 3 cr. Prerequisite, Physics 20abc. Not a laboratory course. Given in 1937-38, and in alternate years. Mr. Little.

For Undergraduates and Graduates

114. Electricity. 1 Q. Spring. 5 cr. Prerequisite, Physics 20b, and Mathematics 23. Not a laboratory course. Mr. Little.

122. Light. 1 Q. Winter. 5 cr. Prerequisite, Physics 20abc, and Mathematics 23. Mr. Little.

131. Selected Topics. 1 Q. Spring. 3 cr. Prerequisite, Mathematics 23 and Physics 114. Lectures and laboratory. Given in 1936-37, and in alternate years. Mr. Little. Mr. Shallenberger.

141. Sound. 1 Q. Spring. 3 cr. Prerequisite, Physics 20abc and Mathematics 23. Not a laboratory course. Given in 1937-38, and in alternate years. Mr. Little.

152. Modern Physics. 1 Q. Autumn. 5 cr. Prerequisite, Physics 20abc and Mathematics 23. The recent discoveries and theories in physics. Not a laboratory course. Given in 1936-37, and in alternate years. Mr. Little.

154. Advanced Modern Physics. 1 Q. Spring. 5 cr. Prerequisite, Physics 114, 122, and 152. A continuation of Physics 152. Quantum theory and relativity. Mr. Shallenberger.

170abc. Theoretical Physics. 3 Q. Autumn, winter, spring. 5 cr. each quarter. Prerequisite, Physics 20abc and Mathematics 23. Not a laboratory course. Mr. Little.

180. Physics Seminar. 1 Q. Spring. 1 cr. A library and discussion course required of Physics majors. Mr. Little.

Pre-Medical Course

Montana State University offers courses which prepare students for entrance to any medical school in the United States. The entrance requirements to such schools as adopted by the Council on Medical Education of the American Medical Association are as follows:

High School. Students must have completed a four-year course of at least fifteen units in a standard accredited high school or other school of standard secondary grade, or have passed examinations for unconditional entrance to college. The subjects taken in high school should include, if possible, at least two years' work in Latin.
College. The minimum requirement is two years of collegiate work extending through thirty-two weeks each and comprising ninety quarter credits. Many of the best medical schools, however, require three years of preparatory work and a few require graduation from college.

Pre-Medical Curriculum

The following courses will satisfy the requirements of all medical schools requiring only two years of preparatory work:

Chemistry: Fifteen credits in general chemistry which may include qualitative analysis; ten credits in organic chemistry.

Zoology and Bacteriology: Fifteen credits in zoology and botany, but not in botany alone.

Physics: Fifteen credits in general physics.

English: Nine credits in composition.

French or German: A reading knowledge of one modern language. This includes at least one year's college work in addition to high school credits.

Electives: To make ninety credit hours, electives should be selected from non-science courses in general.

These requirements will be fulfilled in the University by completing Chemistry 13 and 101, Zoology 10 and 11, Physics 20abc, English 11ab and either 30 or 32, French 13b or German 13b.

In a few cases the above courses somewhat more than satisfy the minimum requirements; but many medical schools require other courses in addition. Students should plan their pre-medical work to fit the demands of the particular school they wish to attend.

While the minimum requirements as outlined comprise college credits for only two years, pre-medical majors should note that the general requirements of Montana State University, which apply to all students, take another year to complete. But all medical schools of high standing urge students to undertake a more thorough preparation than the minimum course outlined above. If in addition pre-medical majors wish to graduate they may complete a fourth year at Montana State University and receive the Bachelor of Arts degree with a major in Pre-Medical Sciences. The additional courses required for this degree include Zoology and Bacteriology 119ab, 23, 120; Chemistry 17, 103; Psychology 11; Modern Language 14 (Scientific French or German).

Aptitude Test. In addition to the work outlined above, each candidate for entrance to any medical school in the United States must pass an aptitude test. This will be given at Montana State University during the winter quarter of the regular school year.
Economics and Sociology

Professor Harry Turney-High (Chairman); Associate Professors Mattheus Kast, Hampton K. Snell; Assistant Professor Harold Tascher. Robert C. Bates, Graduate Assistant.

Major Requirements: 50 or more credits in Economics and Sociology, including courses 14, 15, 16, and 17. The following courses in other departments may be applied in partial fulfillment of this credit requirement: Business Administration 133, 151, 154, 156; Mathematics 25; Psychology 14.

A comprehensive examination over the major field of study will be given to all graduating seniors. Honors candidates must prepare a senior thesis based on original research.

THE RYMAN ECONOMICS FOUNDATION. The Ryman Foundation in Economics and Sociology was founded in 1927 by the late J. H. T. Ryman, Esq., of Missoula. The gift included the testator’s personal library in these fields, as well as a gift of $5,000 for its amplification. A sum of $7,500 was also bequeathed, the income of which is devoted to a systematic extension of the Economics and Sociology Library.

The bequest also included the sum of $10,000, the income of which is to be awarded every fourth even year to a student of that year’s graduating class who has shown distinctive ability and promise in the field of Economics. The purpose of the fellowship is to enable such a student to pursue study in some graduate school of recognized standing leading to the degree of Doctor of Philosophy. The award will next be made in 1938.

In calculating credits for prerequisites, Social Science 11abc may not be counted.

For Undergraduates

14a. Principles of Economics. 1 Q. Autumn. 4 cr. Prerequisite, sophomore standing. Staff.

14bc. Principles of Economics. 2 Q. Winter, spring. Continuous. 8 cr. Summer, 14b. 4 cr. Prerequisite, sophomore standing. The entire course, Economics 14abc, is required of students who major in Economics and Sociology or in Business Administration; all three quarters are necessary for admission to courses listing Principles of Economics as a prerequisite. Staff.

15. Elementary Anthropology. 1 Q. Autumn. 5 cr. Summer. 4 cr. Prerequisite, sophomore standing. An introduction to the study of man and culture. Mr. Turney-High.

16. Principles of Sociology. 1 Q. Winter. 4 cr. Prerequisite, sophomore standing. A general introduction to the study of social relations. Mr. Tascher. Mr. Turney-High.

17. Social Problems. 1 Q. Spring. 4 cr. Prerequisite, sophomore standing. A study of social disorganization and reorganization. Mr. Tascher. Mr. Turney-High.

For Undergraduates and Graduates

Economics

101. Money and Banking. 1 Q. Winter. 4 cr. Prerequisite, course 14abc. Theories of money and the movement and international distribution of gold; principles of monetary regulation; commercial banking institutions. Federal Reserve system, agricultural banks, and other financial institutions. Mr. Snell.

102. Transportation. 1 Q. Autumn. 4 cr. Prerequisite course 14abc. The principles of railway, ocean, and waterway, motor truck and bus, and air transportation; problems of operation and public regulation. Mr. Snell.

103. Public Utilities. 1 Q. Winter. 4 cr. Prerequisite, course 14abc. Problems of electric, communication, gas, water, and city transportation industries; franchises, rate structures, problems and methods of control. Mr. Snell.
110. Agricultural Economics. 1 Q. Winter. 3 cr. Prerequisite, course 14abc. A systematic discussion of the economic problems which confront the citizens of an agricultural community and the means applied or advocated as solutions. Mr. Kast.

111. Development of Economic Theory. 1 Q. Autumn. 4 cr. Prerequisite, 20 credits in Economics, or course 14abc and consent of instructor. A history and analysis of economic theories, emphasizing the Classical, Historical, and Austrian schools. Mr. Kast.

112. Labor Economics. 1 Q. Spring. 3 cr. Prerequisite, course 14abc. Survey of the main forces which give rise to modern labor conditions; the philosophy, methods, and history of organized labor; labor legislation; social insurance. Mr. Kast.

Sociology


123. Development of Social Theory. 1 Q. Spring. 4 cr. Prerequisite, ten credits in Economics and Sociology for majors; for others, senior standing. Social theories from earliest times until the present, and the forces which produced them. Mr. Turney-High.

130. Principles of Social Case Work. 1 Q. Autumn. 4 cr. Prerequisite, courses 16, 17, and Psychology 11. The principles of modern organized poor relief, with emphasis on the analysis of actual case histories dealing with the settlement of family problems. Mr. Tascher.

131. Laboratory in Social Case Work. 1 Q. Any quarter. 1 or 2 cr. Prerequisite, course 130 and consent of instructor. Course may be repeated for credit; not more than 10 credits may be applied towards graduation. A field course in social case work. Mr. Tascher.


133. Systems of Public Welfare. 1 Q. Spring. 4 cr. Prerequisite, courses 16, 17. The history, methods, and policies of the social work activities of government. Mr. Tascher.

Anthropology


141. The Archaeology of North America. 1 Q. Winter. 4 cr. Prerequisite, junior standing and course 15. The study of the origins of pre-Columbian North American races and cultures. Given in 1936-37. Mr. Turney-High.

145. The Ethno-Geography of the Americas. 1 Q. Spring. 4 cr. Not given in 1936-37. Mr. Turney-High.

143. The Ethnography of Africa. 1 Q. Spring. 4 cr. Not given in 1936-37. Mr. Turney-High.

147. The Ethnography of Oceania. 1 Q. Spring. 4 cr. Prerequisite, junior standing and course 15. The comparative study of peoples and cultures of Polynesia, Melanesia, and Micronesia. Given in 1936-37. Mr. Turney-High.

150. Archaeological Survey. 1 Q. Any quarter. 1 to 4 cr. Prerequisite, course 141 or 145. A field course in Montana archaeology. Mr. Turney-High.

155. Economics and Sociology Club. 3 Q. Autumn, winter, spring. 1 cr. each quarter. Prerequisite, junior standing and 15 credits in the Department of Economics and Sociology. An effort to appreciate and integrate the principles and methods of the various fields of social and anthropological literature and reports on field investigations. Economics and Sociology Staff.

190. Independent Work. Any quarter. 2 cr. Prerequisite, senior standing and consent of instructor. The department makes provision for tutorial
instruction of a limited number of qualified students. A reasonable amount of such independent, advanced study is expected of departmental major students, and is required of those who wish to graduate with honors. No regularly scheduled course may be done by independent work. Economics and Sociology Staff.

History and Political Science

Professors J. Earl Miller, Paul C. Phillips (Chairman); Assistant Professor Edward E. Bennett. Michael Mansfield, Rudolph J. Schlueter, Instructors.

Major Requirements: 45 credits in History and Political Science; 15 of these credits must be taken from courses numbered over 100. Freshmen who expect to take major or minor work in History should register for Social Science 11abc. Major students must elect either History or Political Science as a special field of study. Constitutional Law offered in the Law School, and Economics 103, 104, and 125 may be applied toward a major in Political Science.

Senior examinations are required of all students who major in History or Political Science.

Students who plan to teach history in high school should complete History 21bc and 12 credits in European history.

History

For Undergraduates

13abc. English History. 3 Q. Autumn, winter, spring. 3 cr. each quarter. Summer, 21a. 4 cr. Prerequisite, sophomore standing. Students may enter any quarter. The political, economic, and social history of England and the British Empire. Mr. Bennett.

15ab. History of Greece. 2 Q. Autumn, winter. 3 cr. each quarter. Prerequisite, junior standing. The cultural, social and political development of ancient Greece from prehistoric times to the Roman conquest. Mr. Schlueter.

16. History of Rome. 1 Q. Spring. 3 cr. Prerequisite, junior standing. The institutional, social and cultural development of Rome to 395 A. D., with emphasis upon the period from the founding of the Republic to the death of Marcus Aurelius. Not given in 1936-37.

21abc. United States History. 3 Q. Autumn, winter, spring. 4 cr. each quarter. Summer, 21a. 4 cr. Prerequisite, sophomore standing. Students may enter any quarter. (a) 1492-1789. Colonial beginnings and types of governments, with attention to social and economic conditions. Causes of the Revolution; the Confederation and formation of the national government. (b) 1789-1876. The development of nationality and democracy; the western movement; the slavery and nullification controversy; Civil War and reconstruction. (c) 1876-1937. The new West; agricultural and industrial development; influence of business and organized labor; movements for reform; the World War, the Golden Age, the depression, the New Deal and after. Mr. Bennett. Mr. Phillips.

22. Montana History and Government. 1 Q. Summer. 4 cr. Open to all students. Exploration, fur trade, missions, gold mining, social and economic conditions; transportation, development of silver and copper mining, agriculture, territorial and state government and political questions. Mr. Phillips.

23ab. Hispanic-American History. 2 Q. Winter, spring. 3 cr. each quarter. Prerequisite, sophomore standing. History 23a is recommended as preparatory to 23b. (a) A survey of Spanish and Portuguese explorations; institutional developments in Latin-America to the close of the 18th century. (b) The political and economic development of Hispanic-American nations in the 19th and 20th centuries. Mr. Schlueter.

29. French Revolution and Napoleonic Era. 1 Q. Autumn. 4 cr. Prerequisite, Social Science 11a or History 25, and junior standing. Economic, social, political and religious developments, and the international reaction to the Revolution. Mr. Bennett.
30ab. Europe in the 19th Century. 2 Q. Winter, spring. 3 cr. each quarter. Prerequisite, Social Science 11bc or History 29, and junior standing. The internal, economic, social, political, and religious development of France, Germany, Austria and Italy. (a) To 1870. (b) After 1870. Mr. Miller.

33. Medieval Europe. 1 Q. Autumn. 3 cr. Prerequisite, 10 credits in European history and junior standing. The political, social, economic and institutional development of Europe from the barbarian invasions to 1500. Mr. Schlueter.

34. Renaissance and Reformation. 1 Q. Winter. 3 cr. Prerequisite, History 33. The political and social history of Europe from 1300 to 1600; emphasis on the history of ideas. Mr. Bennett.

35. Background of the French Revolution. 1 Q. Spring. 3 cr. Prerequisite, Social Science 11ab or History 34, and sophomore standing. The history of Europe from about 1600 to the outbreak of the French Revolution. Mr. Bennett.

40. Teaching of History, 1 Q. Spring. 3 cr. Prerequisite, 25 credits in history. The problems of history teaching; emphasis upon historical method; objectives in history teaching; the history curriculum; assignments and class room procedure; general and special methods. Mr. Bennett.

For Undergraduates and Graduates

102ab. History of the Northwest. 2 Q. Autumn, winter. 3 cr. each quarter. Prerequisite, History 21abc. Students may enter either quarter. The most significant factors in the history of the northwestern states and their relation to the nation. Mr. Phillips.

103. The Early Twentieth Century (1900-1919). 1 Q. Summer. 4 cr. Prerequisite, History 30 or equivalent. International rivalries and relationships on the eve of the Great War; the War and its immediate results. Mr. Miller.

104abc. Seminar in American History. 3 Q. Autumn, winter, spring. Summer. Credit variable. Prerequisite, 25 credits in history and senior standing. Individual work adapted to the needs of the student. Mr. Phillips.

105abc. Seminar in European History. 3 Q. Autumn, winter, spring. Summer. Credit variable. Prerequisite, 25 credits in history and senior standing. Individual work adapted to the needs of the student. Mr. Bennett.

110. History of the British Empire Since 1783. 1 Q. Winter. 3 cr. Prerequisite, junior standing and History 13bc. Organization of the Old Empire at the close of the American Revolution; new colonial policy and British Expansion in the 19th century; evolution of the self-governing dominions, and their relations with the mother country; the dependent empire and the British Commonwealth of Nations; recent developments and the outlook for the future. Mr. Bennett.

111. Medieval Civilization. 1 Q. Summer. 4 cr. Prerequisite, 10 credits in history and junior standing. Europe from the fall of the Roman Empire to the end of the Middle Ages. Mr. Miller.


114. History of Russia. 1 Q. Autumn. 4 cr. Prerequisite, junior standing and 6 credits in European history. The earlier period of Russian history and the modern regime of the Czars, with special emphasis on the Soviet regime. Not given in 1938-39.

For Graduates

200. Seminar in American History. 1 Q. Summer. 2-4 cr. Open to graduates who have a major or minor in history or political science, including History 21abc. An intensive study of a special period in American history according to standards of historical criticism. Mr. Phillips.

201. Seminar in European History. 1 Q. Summer. 2-4 cr. Prerequisite, 30 credits in history. A study of special problems in European history. Mr. Bennett.

Political Science

For Undergraduates

17. American Government and Politics. 1 Q. Autumn. 4 cr. Prerequisite, 8 cr. in history. The organization and functions of federal government and the problems of the present time. Mr. Phillips.

20. Comparative Governments. 1 Q. Spring. 4 cr. Prerequisite, Social Science 11bc, or History 13c, or 17. A study of representative types of government, constitutional beginnings, organization, methods of legislation and administration. Soviets, Fascists, and other programs of reform. Mr. Phillips.

For Undergraduates and Graduates

106ab. International Public Law. 2 Q. Winter, spring. 3 cr. each quarter. Prerequisite, Junior standing. The law of nations in relation to peace, war, and neutrality. Not given in 1936-37. Mr. Miller.

107ab. Diplomatic History of Europe. 2 Q. Winter, spring. 3 cr. each quarter. Summer. 4 cr. Prerequisite, Junior standing, and one college course in modern European history. Students may enter either quarter. International relations and world politics from the congress of Vienna to the World War. Not given in 1936-37. Mr. Miller.

108. Present World Problems. 1 Q. Spring. 3 cr. Summer. 4 cr. Prerequisite, History 103. The present European situation, reparations, disarmament, the decline of democracy, the world court, the League of Nations. Mr. Miller.

109. American Political Problems. 1 Q. Summer. 4 cr. Prerequisite, History 21abc. Present day political problems, such as governmental reorganization, depression cures, relation of government and business, and foreign problems. Mr. Phillips.

112abc. Seminar in Political Science. 3 Q. Autumn, winter, spring. Summer. Credit variable. Prerequisite, 18 credits in political science and senior standing. Mr. Miller. Mr. Phillips.

Pre-Business Administration

Students who plan to enter the School of Business Administration should see the suggested curriculum, the requirements for graduation and the courses in the School of Business Administration, pages 76 to 80.

Pre-Education

Students who plan to enter the School of Education should complete the required curriculum of the Division of Social Sciences. For further information regarding the School of Education, see pages 80 to 84.

Pre-Legal

Students who plan to enter the School of Law should complete the required curriculum in the Division of Social Sciences. For further information regarding the School of Law, see pages 92 to 95.

GRADUATE SCHOOL

Admission

Candidates for admission to the Graduate School must hold a Bachelor's degree from Montana State University or from another institution of approved standing. In order to become a candidate for a Master's degree, the student must offer evidence of completion of satisfactory undergraduate work in the field he has selected for graduate study. To receive graduate credit the student must register in the Graduate School and his program must receive the approval of the Chairman of the Graduate Committee.

Courses

Graduate work is offered in the following departments or schools: Botany, Business Administration, Chemistry, Economics and Sociology,
Education, English, Fine Arts, Foreign Languages, Forestry, Geology, History and Political Science, Home Economics, Journalism, Mathematics, Pharmacy, Physical Education, Physics, Psychology and Philosophy, Zoology and Bacteriology.

Undergraduate courses of advanced character are accepted for graduate work. Such courses, however, must be of at least junior character and should have a prerequisite of not less than eight credits in the same field. Normally, courses numbered from 100 to 199 will meet this requirement. In such courses, however, the student must do extra work equal to fifty per cent of the regular assignments in order to receive full graduate credit. Such extra work must be of distinctly advanced character. In case students do not do the extra work required for graduate credit they may, with the approval of the Graduate Committee, count two-thirds of the course credit as graduate credit.

Requirements for a Master's Degree

Candidates for a Master's degree must present thirty credits of graduate work and a thesis. Candidates must be registered for a full graduate course for three quarters. The residence requirements may be met by carrying a normal graduate course for three summer sessions of nine weeks each and preparing the thesis in absentia. In the case of students transferring graduate credits from other institutions, the residence requirements are three quarters or summer sessions and not less than twenty-two credits at Montana State University. Students of superior ability may earn the degree within a year if they give all their time to graduate study. Twenty credits must be in the major subject, and with the approval of the Graduate Committee, ten credits may be offered in a minor field. Candidates for the Master's degree are expected to earn a "B" average (an index of 2.00) on credits offered for the Master's degree.

Before receiving the Master's degree the candidate must present evidence of intensive study and investigation in some field of interest. In connection with this study he must prepare a thesis. The subject of this thesis must receive the approval of the major professor and the chairman of the Graduate Committee. Finally he must pass an examination over the whole field of his special study, and this examination may be taken only after the thesis is accepted. Final acceptance of the thesis is subject to the approval of a special examining committee which also conducts the examination over the special field of study. The examination may be oral or written or both. Before the degree is conferred, two copies of the thesis must be deposited in the library. The thesis must be prepared in the form prescribed by the Graduate Committee.

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.

Correspondence Study

During the past year the University has offered the following correspondence courses:
Business Administration

Industrial Geography, Elementary Accounting, Intermediate Accounting, Advanced Accounting, Auditing, Income Tax, Cost Accounting, Credits and Collections, Corporation Finance, Foreign Trade, Marketing, Salesmanship.

Classical Languages


Economics and Sociology


Education


English

English Composition, Advanced Composition, American Literature, Social Thought of Literary Men, English Novelists, Masters of Fiction, Contemporary Literature.

Geology

General Geology, Geography and Natural Resources of Montana.

History and Political Science


Home Economics

Elementary Dietetics, House Planning and Furnishing, Textiles.

Mathematics


Modern Languages

advanced Spanish Composition, General Survey of Spanish Literature, Spanish Drama of the Golden Age, Spanish Novel of the Nineteenth Century, Contemporary Spanish Drama, Commercial Spanish, Spanish-American Literature, Contemporary Spanish Novel.

Music

Psychology

Religion
The Religions of Mankind, The Prophetic Heritage. Further work upon request.

Zoology and Bacteriology
Economic Zoology, Entomology, Eugenics, Physiology, General Hygiene.

Correspondence Study Fees
The fees for correspondence courses are payable in advance.
For each quarter credit.................................................$2.50
To cover cost of postage on returned assignments, per course ..................................................$1.00
For transferring from one course to another............$2.00
A charge of $2.00 will be made for extension of time for the completion of a correspondence study course, except in the case of students required to suspend the correspondence study work while in attendance at some institution.
In case books are borrowed from the University Library a deposit of $4.00 should be sent to the Correspondence Study Department. When the student no longer desires books, $3.00 of the deposit is returned, less postage and fines for delay in returning books. The other $1.00 is retained as a rental charge.

Public Lectures
The services of members of the University staff may be secured for public addresses and lectures by application to the Public Service Division.
Owing to financial limitations Montana State University has no separate staff for public service work, but is compelled to call upon the members of the regular staff for extra-mural services. For this reason it is usually necessary to plan some time in advance for any work which calls staff members away from the institution for any considerable length of time.
Board of Recommendations

The University endeavors to assist school authorities in need of trained teachers, principals and superintendents; and, in like manner, to assist teachers, principals and superintendents in finding positions which they, by training, ability and experience, are fitted to fill successfully. This work is carried on by the Board of Recommendations of which Professor W. E. Maddock is chairman. Confidential information is collected showing the preparation, character, ability and success of persons interested in school positions, and this information is furnished school authorities upon application. A registration fee of $5.00 is charged teachers for this service to cover the cost of gathering material, making up sets of papers, and sending them out to employing school officials. No additional charge is made for renewal of registration in subsequent years.

Students who pay the fee of $5.00 for the Certificate of Qualification to Teach after July 13, 1936, will not be required to pay the $5.00 fee for the services of the Board of Recommendations.

SCHOOL OF BUSINESS ADMINISTRATION

Professors Robert C. Line (Dean), David R. Mason, Emmett R. Sanford, James B. Speer; Associate Professors Allen K. Smith, Hampton K. Snell, Brenda F. Wilson, Instructor.

The School of Business Administration offers preparation for secretarial work and for clerical positions and, in its advanced courses, prepares for administrative positions in industry, commerce, and public service. It also has an intensive training course in Retailing and Wholesaling.

Requirements for Admission

The course in business requires a solid foundation in non-technical subjects. In addition to the University requirements for admission (pages 15 to 18), a student must have completed two years of approved college work.

For regulations regarding admission of special students see page 17.

Requirements for Graduation

Candidates for the degree of Bachelor of Arts in Business Administration must meet the following requirements:

1. The general University requirements for graduation (see pages 18 to 22), except in foreign languages.

2. A minimum of 53 credits in Business Administration. The following courses, described under the Department of Economics, are accepted as Business Administration subjects: Economics 101, 102, 103, 104.

3. The following courses must be completed: Economics 14abc, Psychology 11, Business Administration 12ab, 41, 133 and 151.

4. The following courses should be completed: Mathematics 19 and 25.

In addition to the above requirements, each student should be able to typewrite at a minimum rate of 40 words a minute and should be able to take dictation at a reasonable rate of speed.

Senior examinations will not be given except to candidates for honors.
Cooperating Schools

The School of Business Administration cooperates with the School of Law so that it is possible to obtain in six years both the degrees of Bachelor of Arts in Business Administration and Bachelor of Laws. This is a very desirable combination for those expecting to enter the legal profession.

Students who wish to major in Advertising should elect the following courses: **Freshman year**, Journalism 11abc; **sophomore year**, Journalism 21abc, Economics 14abc, Psychology 11 and 32; **junior year**, Business Administration 41, Journalism 24 and the advertising section of Journalism 31; **senior year**, Business Administration 151, Journalism 45 and 47.

The School of Business Administration cooperates with the School of Education in order that those who expect to teach commercial subjects in secondary schools may obtain a University Certificate of Qualification to Teach and a special commercial teaching certificate. In order to qualify for this certificate, students should take Psychology 11 in the sophomore year; Education 18 and 19 in the junior year; and Education 22, 26, 32 and 66 in the senior year. They are also required to take Business Administration 22c or its equivalent and meet a typing requirement of 50 words per minute in a 15 minute test with no more than 5 errors.

C. P. A. Examinations

The laws of the State of Montana provide for the certification of public accountants. The University grants the C. P. A. certificate to legally qualified persons who have successfully passed a written examination in “Theory of Accounts,” “Practical Accounting,” “Auditing,” and “Commercial Law.” Graduates of the School of Business Administration who have taken the courses suggested in the accounting group will have had the fundamental education required for these examinations. Further intensive study is suggested. One year’s residence in Montana is prerequisite for admission to the examination for a certificate.

Suggested Curricula for Majors in Business Administration

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<thead>
<tr>
<th>Freshman Year</th>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
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<tr>
<td>Physical Science 17abc or Biological Science 13abc</td>
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<td>Humanities 15abc</td>
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<td>5</td>
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<tr>
<td>Mathematics 10, 19, 25</td>
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<td>5</td>
</tr>
<tr>
<td>Physical Education 11abc</td>
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<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Military Science 11abc (Men)</td>
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<td>1</td>
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<tr>
<td><strong>Total</strong></td>
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<tr>
<td>Business Administration 11 and 12ab</td>
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<tr>
<td>Economics 14abc</td>
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<tr>
<td>Psychology 11 and 32</td>
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<tr>
<td>English 11ab</td>
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<tr>
<td>Physical Education 12abc</td>
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<tr>
<td>Military Science 12abc (Men)</td>
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<td><strong>Total</strong></td>
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<td><strong>18</strong></td>
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## Montana State University

### Accounting

#### Junior Year

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Autumn Quarter Credits</th>
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<tr>
<td>Business Administration 41ab</td>
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<tr>
<td>Business Administration 123 and 122</td>
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<td>Business Administration 154 or Economics 103</td>
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<td>Business Administration 113abc</td>
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<td>Business Administration 124</td>
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<tr>
<td>Economics 101</td>
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<td>Elective</td>
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#### Senior Year

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<th>Autumn Quarter Credits</th>
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<tr>
<td>Business Administration 151 and 129</td>
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<td>Business Administration 114, 145 and 115</td>
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### General Business and Commercial Teaching

#### Junior Year

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<td>Business Administration 123 and 122</td>
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<tr>
<td>Business Administration 154 or Economics 103</td>
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<td>Business Administration 124</td>
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<td>4</td>
<td>4</td>
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<tr>
<td>Economics 101 and 104</td>
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<td>Elective</td>
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#### Senior Year

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<thead>
<tr>
<th>Course Description</th>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
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<tbody>
<tr>
<td>Business Administration 151, 150 and 156</td>
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<td>*Business Administration 23ab or Elective</td>
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<td>Business Administration 121 and 129</td>
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<td>Economics 102 and 103</td>
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<td>Business Administration 154</td>
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### For Undergraduates

**S1. Industrial Geography.** 1 Q. Summer. 4 cr. Open to all students but may be applied toward graduation by freshmen and sophomores only. The distribution, development and utilization of raw materials in industry and trade; the influence of economic resources upon business life. Mr. Sanford.

**11. Elementary Accounting.** 1 Q. Autumn. 5 cr. Summer. 4 cr. Prerequisite, sophomore standing. A student may be exempted from this course upon passing a placement examination admitting him to 12a. Fundamental principles of accounting as applied to the single proprietorship. Mr. Sanford.

**12ab. Intermediate Accounting.** 2 Q. Winter, spring. 5 cr. each quarter. Prerequisite, Business Administration 11 or placement examination, and sophomore standing. (a) Methods of modern accounting practice, with classification of accounts for a partnership. (b) The corporate type of accounting records, controlling accounts, consignments, joint ventures and related topics. Mr. Sanford.


*No more than 15 credits earned in Business Administration 22 and 23ab may be applied toward graduation. Required only of students preparing for Commercial Teaching.*
22. Stenography. 3 Q. Autumn, winter, spring. Continuous. 15 cr. Summer, 4 cr., toward the degree of Bachelor of Arts in Business Administration only. However, credit in Stenography may be included in the 25 credits required for a teaching minor in Business Administration. Combined shorthand and transcription practice; principles and dictation, reading, speed work, and teaching methods. Fee, $17.50 per quarter. Mrs. Wilson.

23ab. Advanced Stenography. 2 Q. Autumn, winter. 5 cr. each quarter toward a major or teaching minor in Business Administration only. Prerequisite, (a) dictation speed of 80 words a minute in a five minute test; (b) dictation speed of 100 words a minute in a five minute test. Combined transcription and shorthand practice. Fee $17.50 per quarter. Mrs. Wilson.

25. Office Machines Practice. 1 Q. Any quarter. 2 cr. Prerequisite, two quarters of shorthand and 40 words per minute typing speed. No additional fee for students who are registered for stenography or typing; for others the fee is $5.00. Mrs. Wilson.


41. Business Law. 2 Q. Winter, spring. Continuous. 6 cr. Summer. 3 cr. Prerequisite, junior standing. (a) Introduction: Contracts; Sales. (b) Agency, Negotiable Instruments; Partnership; Corporations. Mr. Mason. Mr. Smith.

50. Retail Stores. 1 Q. Winter. 3 cr. Prerequisite, Economics 14a or Pharmacy 27. Types of retail stores, location, buying, pricing, merchandising display, store selling, types of display advertising and store costs. Mr. Line.

52. Salesmanship. 1 Q. Autumn. 3 cr. Mr. Line.

For Undergraduates and Graduates

113abc. Advanced Accounting. 3 Q. Autumn, winter, spring, 4 cr. each quarter. Summer, 4 cr. Prerequisite, Business Administration 12ab. (a) Corporation accounting; theory of balance sheets; valuation of assets on the balance sheet; depreciation; profits; reserves; dividends; surplus. (b) Sinking and other funds: income summaries; analysis of balance sheets; liquidations; consolidations; mergers and branch house accounting. (c) Consolidated statements, bankruptcy, reorganizations, and estates. Mr. Sanford.

114. Cost Accounting. 1 Q. Autumn. 4 cr. Prerequisite, Business Administration 113abc. Elements of cost; principles and general methods of cost findings; direct and indirect costs; payroll and labor costs; compiling costs and cost data; control of cost records. Mr. Sanford.

115. Auditing. 1 Q. Spring. 4 cr. Prerequisite, Business Administration 113abc. The general scope and purpose of auditing; the audit program; the analytical study of balance sheets and accounting records, with practical problems. The application of the theory to practical problems; the preparation of final reports, with full analysis in approved form for submission to clients. Mr. Sanford.

124. Insurance. 1 Q. Spring. 3 cr. Prerequisite, Economics 14abc. Methods of meeting risk; fundamental principles of life, fire, marine, and other insurance. Mr. Line.

129. Principles of Organization and Management. 1 Q. Winter. 2 cr. Prerequisite, junior standing. Principles of organization and management as applied to the office. Mr. Speer.

131. Real Estate. 1 Q. Autumn. 2 cr. Prerequisite, Economics 14abc. Mr. Line.

132. Credits and Collections. 1 Q. Spring. 2 cr. Prerequisite, Economics 14abc. Credit organization; the credit department; the mercantile agencies; sources of credit information; securing and granting credit; collection methods. Mr. Line.

133. Corporation Finance. 1 Q. Autumn. 5 cr. Summer. 4 cr. Prerequisite, Economics 14abc. The position of corporate organization in modern business; the financial side of organization and promotion; the financial policy with reference to underwriting; capitalization; earnings; surplus; insolvency; receivership, and reorganization. Problems and methods of social control. The organization of particular corporations. Mr. Shell.

145. Income Tax. 1 Q. Winter. 4 cr. Prerequisite, Business Administration 113abc and 41. The accounting requirements of the law, the

*No more than 15 credits earned in Business Administration 22 and 23ab may be applied toward graduation.
regulations and a digest of the law, with practical problems in the preparation of returns for individuals, partnerships and corporations. Mr. Sanford.

150. Business Ethics. 1 Q. Winter. 3 cr. Prerequisite, senior standing. Mr. Line.

151. Marketing. 1 Q. Autumn. 3 cr. Prerequisite, Economics 14abc. The prevailing methods of marketing as applied to manufactured products, industrial raw materials, agricultural products and consumers goods; functions of middlemen. Mr. Line.

152. Foreign Trade. 1 Q. Spring. 3 cr. Prerequisite, Economics 14abc and 101, or consent of instructor. Theories, principles and methods of international trade. Economic resources and products of the principal countries, their chief exports and imports. Not given in 1936-37. Mr. Snell.

154. Investments. 1 Q. Winter. 3 cr. Prerequisite, Business Administration 133. Investment principles and plans; kinds of securities; tests of investment values; outline of financial analysis of industrial, public utility, railroad, financial, real estate, governmental and foreign securities; the mechanics of investment. Mr. Snell.

156. Business Cycles. 1 Q. Spring. 3 cr. Prerequisite, Economics 101. Business cycles with special reference to their history, causes, duration and effects; business forecasting is considered. Mr. Line.

160. Retail Store Management. 3 Q. Autumn, winter, spring. 4 cr. each quarter. Prerequisite, Business Administration 151 or consent of instructor. A special training course in the principles and practice of the management of retail stores. Fee, $15.00 per quarter. Mr. Line.

191. Business Administration Seminar. 3 Q. Autumn, winter, spring. 1 to 3 cr. each quarter. Prerequisite, senior standing. An intensive study of some problems in Business Administration. Mr. Line.

192. Retail Store Seminar. 3 Q. Autumn, winter, spring. 4 cr. each quarter. Prerequisite, consent of instructor. A study of retail problems, particularly those arising from the student's practical store experience. Fee, $15.00 per quarter. Mr. Line.

SCHOOL OF EDUCATION

Professors Walter R. Ames, Freeman Daughters (Dean), William E. Maddock.

The School of Education has the following objectives: (1) To train superintendents, principals and supervisors for the public schools of Montana; (2) to train teachers for the junior and senior high schools, and teachers of special subjects such as music, art, physical education and home economics; (3) to provide assistance to the schools of the state in the form of testing programs, extension work and expert counsel; (4) to encourage investigation and research in the schools of the state; and (5) to unify and coordinate the agencies of the University which contribute to the preparation of those who expect to enter school work.

Requirements for Admission

In addition to the regular University requirements for admission (pages 15 to 18), a student must complete two years of college work. Pre-Education students should follow the required curriculum in the Division of Social Sciences except that the taking of a foreign language is elective for students majoring in Education. (See page 41.) A minimum of four credits in general psychology is prerequisite to all courses in Education, except 14 and 66, and should be taken in the sophomore year.

Requirements for Graduation

Candidates for the degree of Bachelor of Arts in Education must meet the following requirements:

(1) The general University requirements for graduation (see pages 18 to 22), except in foreign languages.
(2) A minimum of 40 credits in Education, including Education 18, 19, 22, 26, 130, 134, 150ab, 152, 154, 156 and 158 or 162 or equivalents.

(3) Three minors must be completed in subjects usually taught in high schools if the certificate is desired. Senior examinations will not be given except to candidates for honors.

Candidates for the degree of Master of Arts must comply with the regulations governing graduate work set forth on page 72. In addition to these regular requirements, the candidate must take a general written examination on the field of Education early in the period of his candidacy. This is designed to separate his general examination on the field from his special examination on his thesis which comes shortly before the granting of the degree. For further information candidates should write or consult the Dean of the School of Education.

The University Certificate of Qualification to Teach

Montana State University issues to its graduates a certificate of qualification to teach which is a license to teach in grades 6 to 12, inclusive, of the public schools of the state. Its jurisdiction may be extended downward to include the lower grades by meeting the conditions prescribed in the state law.

This certificate meets the North Central Association requirement of 22½ quarter credits of preparation in Education. Many states require from 25 to 36 quarter credits in Education as a prerequisite to high school certification. To hold an administrative position in Montana the candidate must have approximately a major in Education.

A candidate for the University Certificate of Qualification to Teach is required:

(1) To offer either a Bachelor’s or Master’s degree from Montana State University.

(2) To submit either major or minor preparation in three fields usually taught in Montana high schools. Subjects such as Education, Journalism, Law, German, and Psychology are, therefore, not accepted as meeting this requirement. A candidate may not be held by a department or school for more than 25 credits for a minor. His work must be of such quality as to secure from the minor departments a recommendation as to his ability in the subject. He must also be recommended as to character and scholarship by his major department.

(3) To offer 23 credits in Education in addition to four credits in General Psychology. The credits in Education shall include Education 18, 19, 22, 26 and two electives. For one of these electives the candidate may offer, if he desires, a methods course to the extent of three credits in one of his fields of preparation. The methods courses from which these credits may be offered are Mathematics 31, Business Administration 32, Home Economics 33, Physical Education 35a, History 40, English 105, and Music 124.

(4) To demonstrate his ability to teach successfully.

(5) To be a citizen of the United States at the time of receiving the certificate.

In addition to the above requirements the candidate for the certificate must be in good health, free from such defects as would prevent
successful teaching; his character must be above doubt; he must show reasonable intelligence in any standards or tests that the University may prescribe; his scholarship must be satisfactory; and he must possess such favorable attitudes, interests and ideals as to justify certification. The University reserves the right to withhold the certificate for failure to meet adequately any of these standards.

Candidates for the certificate should confer with the Dean of the School of Education not later than the beginning of the sophomore year.

General Information

Students preparing for the work of superintendent, principal or supervisor in public schools, for educational research, or for teaching professional subjects, should do major work in Education. Those desiring to become teachers of particular subjects, either in the junior or senior high school, may specialize in the subjects to be taught.

The special methods courses are taught by specialists in the respective fields and are designed for candidates planning to teach special subjects. The courses are numbered 31, 32, 33, 35a, 40, 41, 105, 124, respectively.

A text-book fee of $1 is charged for each course taken in the School of Education, except in seminar courses, in which case the fee is $1.50 per course. The object of this fee is to make it unnecessary for students to purchase texts for particular courses.

For Undergraduates


14. History of Education. 1 Q. Summer. 4 cr. Prerequisite, sophomore standing or teaching experience.

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


S20. School Management. 1 Q. Summer. 2½ cr. Prerequisite, sophomore standing or teaching experience. A study of the managerial problems of the average teacher.

S21. Montana Courses of Study. 1 Q. Summer. 4 cr. Prerequisite, sophomore standing or teaching experience. Montana courses of study, elementary and secondary.

*22. The High School. 1 Q. Autumn. Winter. Summer. 4 cr. Prerequisite, senior standing and 7 credits in Education. The history, organization, management and problems of the high school. Mr. Daughters.

*26. Observation and Teaching. 1 Q. Autumn. Winter. Spring. 5 cr. Education 22 is prerequisite or must be taken simultaneously. Not more than 40 students will be registered in the spring quarter. Reservations for a place in this course in the spring quarter must be made prior to the winter quarter in any year. If there are more than can be accommodated in any one quarter, those without reservations will not be permitted to take the work. Observation of classroom teaching; conferences; preparation of lesson plans; and teaching under supervision of critic teachers and staff of the School of Education in cooperation with the Missoula county high school and the Missoula city schools. Mr. Daughters. Mr. Maddock.


33. Methods of Teaching Home Economics. See Home Economics 33.


*Courses required for University certificate.
40. Teaching of History. See History 40.

S42. Character Education. 1 Q. Summer. 4 cr. Open to all students. Physical, intellectual and social adjustments. The functions of the home and the school.

66. History of American Education. 1 Q. Winter. Summer. 4 cr. Prerequisite, Junior standing. Mr. Maddock.

For Undergraduates and Graduates

105. The Teaching of English. See English 105.


130. Fundamentals of School Health. 1 Q. Spring. Summer. 4 cr. Prerequisite, senior standing. The physical and mental health of school children, the hygiene of the school program and instruction, and the problems of the teacher and staff. Mr. Daughters.

133. Personnel Methods in High School. 1 Q. Summer. 2½ cr. Prerequisite, senior standing and 7 credits in Education. For students preparing to be deans of girls in high schools. Mrs. Ferguson.

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

S135. High School Supervision. 1 Q. Summer. 2½ cr. Prerequisite, teaching experience and Education 22, or equivalent. The problems involved and the means, methods, and plans of improving instruction in the high school.

S136. Atypical Children as an Administrative Problem. 1 Q. Summer. 4 cr. Prerequisite, junior standing and 10 credits in Education. Provisions made for atypical children; civic and sociological implications of such work.

S137. The Education of Handicapped Children. 1 Q. Summer. 4 cr. Prerequisite, junior standing or extensive teaching experience, and Education 18 and 18. Development of the movement; types of such children; methods, procedures, plans, and devices; equipment.

S138. Diagnostic and Remedial Instruction. 1 Q. Summer. 4 cr. Prerequisite, Junior standing and teaching experience.

S139. Progressive Education. 1 Q. Summer. 4 cr. Prerequisite, junior standing and 12 credits in Education. The progressive education movement, its philosophy, practices, methods, and typical progressive schools.

S140. Educational and Vocational Guidance. 1 Q. Summer. 4 cr. Prerequisite, junior standing or extensive teaching experience. The individual and his aptitudes; direction in education; vocational guidance, its technique, means and problems.

150ab. Educational Administration. 2 Q. Winter, spring. 3 cr. each quarter. Summer. 4 cr. Prerequisite, 7 credits in Education. Students may enter either quarter. (a) City school organization and administration. (b) Federal, state, county and rural school organization and administration. Mr. Maddock.


154. Seminar in Education. 1 Q. Autumn. Spring. Summer. Credit variable. Prerequisite, senior standing and 18 credits in Education, or extensive teaching experience and consent of Instructor. Original investigations. Mr. Daughters.

156. School Finance. 1 Q. Winter. Spring. Summer. 4 cr. Prerequisite, senior standing or 12 credits in Education and experience as a principal or superintendent. History and sources of school revenue. Funds, relative costs, inequalities, legal limitations and proper expenditures. Comparative study of finances. Mr. Maddock.

158. Educational Sociology. 1 Q. Winter. Summer. 4 cr. Prerequisite, junior standing and 6 credits in Education. The social aspects of education, the relation of the school to society, institutional adjustment and change, and the social objectives of the curriculum. Mr. Daughters.

162. Problems in Elementary Education. 1 Q. Autumn. Summer. 4 cr. Prerequisite, junior standing and Psychology 11. The elementary school, its history, organization, management, curriculum, types of teaching; its special problems; the kindergarten and other features with which supervisors should be acquainted. Mr. Maddock.
170. Seminar in Secondary Education. 1 Q. Spring. Summer. 3 to 5 cr. Prerequisite. 20 credits in Education, including Education 22 or equivalent. Special investigations, reports, critical discussions, surveys, readings and term paper or report. Mr. Daughters.

For Graduates

266. Seminar in History of American Education. 1 Q. Winter. Summer. 1 to 5 cr. Prerequisite. 12 credits in Education, including Education 66 or equivalent. Special fields in American educational history; special problems and research. Mr. Maddock.

275abc. History of Education. 3 Q. Autumn, winter, spring. 4 cr. each quarter. Prerequisite. Education 14 or 66, or equivalent. The history of education with emphasis upon sources. Educational classics will be studied intensively and reviewed. Not given in 1936-37. Mr. Daughters.

280. Seminar in Administrative Problems. 1 Q. Spring. Summer. Credit variable. Prerequisite. Education 150ab or equivalent. Intensive study of administrative problems; original research. Mr. Maddock.


SCHOOL OF FORESTRY

PROFESSORS FAY G. CLARK, IRWIN W. COOK, J. H. RAMSKILL, THOMAS C. SPAULDING (DEAN); ASSISTANT PROFESSOR THOMAS G. SWARINGEN. CLARENCE V. MÜHLICK, INSTRUCTOR.

The School of Forestry provides instruction along two distinct lines: (1) An undergraduate course of four years allowing specialization in General Forestry, Forest Engineering, Range Management or Wild Life Management; (2) A graduate course with opportunities for research in Silviculture, Management, Forest Engineering, Range Management or allied subjects.

Undergraduate Course. The undergraduate curricula have been arranged to provide the broadest possible training in the profession of Forestry, with particular reference to the various lines of scientific and administrative work in federal and state forest services, and the problems of management in the lumber industry. Special emphasis is laid on forestry in the West. In order that the student may grasp both the practice and theory of forestry, technical instruction should be supplemented by at least two summers' field practice or its equivalent.

Forestry-Wild Life Specialization

Beginning autumn quarter, 1936, an opportunity will be afforded for a combined course in forestry and wild life management.

Graduate Course. The School of Forestry offers an exceptional opportunity for graduate and research work, to a limited number of students, leading to the degree of Master of Science in Forestry, concerning the problems in Silviculture, Forest Management, Wood Technology, Forest Products, Lumbering and Logging, and Range Management, in the forest stands of the Northern Rocky Mountains.

Requirements for Admission

The regular University requirements for admission apply to the School of Forestry (see pages 15 to 18). Since it is desired to limit the undergraduate registration, applications with transcripts of high school or previous college work must be filed in advance.

Students whose high school transcripts indicate that they have not been able to maintain an average scholastic record in high school may be requested to defer registration in the School of Forestry until they
have clearly demonstrated their capacity to maintain at least a "C" average in the University.

Requirements for Graduation

Note: Students failing to maintain a scholarship index of one (average grade of "C") may not be permitted to continue in the School of Forestry.

Candidates for the degree of Bachelor of Science in Forestry must meet the following requirements:

(1) The general University requirements for graduation (see pages 18 to 22).

(2) A minimum of 186 credits of work, not including credits obtained in Military Science, Physical Education and approved summer field work.

(3) A Forestry curriculum which is satisfactory to the staff of the School.

(4) Two summers of regularly approved field work. Should a student fail to offer this field work, he may be allowed to substitute credits earned in residence in the ratio of 3 credits for each summer's work.

Senior examinations will not be given except to candidates for honors.

Candidates for either the degree of Master of Science in Forestry or Master of Science with a combined major in Botany and Forestry must comply with the regulations governing graduate work set forth on page 72.

Summer Work

One of the important features of the Montana School of Forestry is the opportunity which students have for summer work. Each student is expected to spend at least two summer seasons, of not less than three months each, in gaining field experience in some type of forestry work. The United States Forest Service, the United States Indian Service, State Forestry Services and lumber companies have all assisted, in the past, in making temporary positions available to the students for summer work. Heretofore, all students have had such opportunities to earn while gaining field experience. Positions for summer work cannot, however, be guaranteed, and the securing of such positions, as well as promotions through succeeding vacations and positions after graduation are entirely dependent on the student's own effort and ability, and the availability of positions.

Field Work

As much of the technical instruction as possible is carried on in the field. The school forest with its 2,000 acres of fir, larch and yellow pine, varying in size from reproduction to over-maturity, national and private timber holdings, logging operations and sawmills offer excellent laboratories in the practice of the various phases of Forestry and Range Management.

Field trips of from one to several weeks duration are required of juniors and seniors. These students should be prepared to bear the personal expenses of such trips. These do not normally exceed $75 per year.

General Information

The School of Forestry possesses a marked advantage in location and equipment. Every forest type of the inland Northwest is found within a few miles of the campus. Two transcontinental and three branch railroads, as well as interurban bus lines, place the School
within easy reach of extensive logging, lumbering and lumber manufacturing operations. Two large mills, with a normal annual cut of 120,000,000 feet B.M., are located within thirty minutes walk or ride from the campus. Both have made their plants available for the use of the School for laboratory and research purposes.

The School of Forestry maintains its own forest nursery with a potential capacity of 1,000,000 trees a year. In addition, a valuable school forest of some 2,000 acres of timber and range land are immediately adjacent to the campus.

The headquarters of the Northern Region of the United States Forest Service, the Northern Rocky Mountain Forest and Range Experiment Station and the Lolo National Forest are located in Missoula. The boundaries of the Lolo and Bitterroot National Forests and the Blackfoot Forest Protective Association surround the School. These include more than 4,000,000 acres of government and privately owned timber lands under forest management. Within 100 miles of the campus are sixteen national forests, two other government timber reserves, several state forests, a national park and several private forest protective associations.

The Forestry Club has established a loan fund for the benefit of upperclass students of forestry. The fund now contains approximately $3000, available to juniors and seniors who have been active members of the club for at least one year.

### Required Curricula for Majors in Forestry

#### Freshman Year

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<td>Forestry 42ab</td>
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<td>1</td>
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#### Sophomore Year

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<td>Forestry 14</td>
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<tr>
<td>Mathematics 35c</td>
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### GENERAL FORESTRY AND FOREST ENGINEERING

#### Junior Year

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<td>Forestry 25ab</td>
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<td>Forestry 31 and 32</td>
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<tr>
<td>Forestry 34</td>
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*Students who present 1½ entrance units in Algebra may not receive college credit for 35a; those who present entrance credit in Trigonometry may not receive college credit for 35b.
In addition to the above courses, students after the freshman year may elect not to exceed 12 credits each year in any school or department of the University, subject to the approval of the faculty of the School of Forestry and of the department in which the work is taken.

For Undergraduates

11ab. Survey of Forestry. 2 Q. Autumn, 1 cr.; spring, 2 cr. The field of forestry as a profession; functions and characteristics of forests, their benefits, use, distribution, and importance. Mr. Spaulding.

12. Economics of Forestry. 1 Q. Autumn. 3 cr. Prerequisite, Economics 14a, or equivalent. Individual and conference work on all aspects of forestry economics. Mr. Clark.

13ab. Forest Policy. 2 Q. Autumn, winter. 3 cr. each quarter. Prerequisite, Forestry 13a for 13b. Forest policies of the United States and other nations; public relations. Mr. Spaulding. Mr. Stone.

14. Forest Protection. 1 Q. Winter. 3 cr. Fire prevention, detection, and suppression. Mr. Spaulding.

15. Conservation. 1 Q. Winter. 4 cr. The conservation of all natural resources. Mr. Spaulding.

21. Silvics. 1 Q. Autumn. 5 cr. Prerequisite, Botany 51 and consent of instructor. The foundations of silviculture from an ecological basis.

23ab. Silviculture. 2 Q. Winter, spring. 5 cr. each quarter. Prerequisite, Forestry 21. Behavior and habits of growth of forest trees; influence of environment on growth and yields, reproduction, adaptability to management; systems of silvicultural treatment; conservation and protection; natural and artificial reproduction. Mr. Cook.

24. Forest Mensuration. 2 Q. Autumn, winter. Continuous. 6 cr. Prerequisite, Mathematics 35bc, or equivalent; consent of instructor; Forestry 23ab (may be taken concurrently). All phases of forest mensuration. Mr. Clark.

25ab. Dendrology. 2 Q. Autumn, winter. 5 cr. each quarter. Prerequisite, Botany 22, or consent of instructor. Study of the micro-structural and systematic relationships of the principal forest trees of the United States and Canada. Mr. Rasmussen.
26. Forest Management. 3 Q. Autumn. 5 cr.; winter, 5 cr.; spring, 2 cr. Prerequisite: Forestry 12 or equivalent. Preparation of a complete forest working plan from the data secured in Forestry 28 or its equivalent. Field trip of a week or ten days duration may be required during any quarter. Mr. Clark.

27. Forest Recreation. 1 Q. Spring. 5 cr. Prerequisite, Forestry 24. Economic and social aspects of recreation; principles of landscape design for sites, summer camp grounds; sanitation and public health. Field trips of from one to three days duration may be required to National Forests, National Parks, and dude ranches. Mr. Clark.

28. Valuation Surveys. 1 Q. Spring. 5 cr. Prerequisite, Forestry 24. All phases of securing data for a forest working plan. Trips of from one to three days duration may be required. Mr. Clark.

31. Wood Technology. 1 Q. Autumn. 3 cr. Prerequisite, Botany. The physical, chemical, and mechanical properties of wood. Mr. Ramskill.

32. Forest Products. 1 Q. Spring. 3-4 cr. Prerequisite, Forestry 31. Character, extent, and value of the products from the forests of the world, particularly those of the United States. Mr. Ramskill.

33. Logging. 1 Q. Autumn. 5 cr. Prerequisite, sophomore standing. Methods and equipment used in logging in the forest regions of the United States, with special reference to the Rocky Mountain and Inland Empire terrain; comparative European methods. Field trips when practical. Mr. Cook.

34. Lumbering. 1 Q. Spring. 3 cr. Prerequisite, Forestry 24 and 33. The lumbering industry of the United States, with special reference to the western states; sawmill and equipment in use; mill scale studies and practice in grading in nearby mills. Mr. Ramskill.

36abc. Logging Engineering. 3 Q. Autumn, winter, spring. 4 cr. each quarter. Prerequisite, Forestry 24, 33, and senior standing. Application of engineering principles to logging operations; timber appraisals. Visits to nearby logging operations. Mr. Cook.

37. Timber Mechanics. 1 Q. Winter. 5 cr. Factors governing the strength and utility of wood; application of principles of graphic statics to the determination of stresses in wooden structures. Mr. Ramskill.

38. Wild Life Management. 1 Q. Winter. 4 cr. The management of forest wild life—game, fish, and predatory—with particular reference to their utilization, and destruction of forest resources. Mr. Spaulding.

39ab. Range Management. 2 Q. Autumn, spring. 4 cr. each quarter. Prerequisite, Botany 51; and Botany 161a for 39b. (a) Required of all students in forestry. A survey of the field of range management. (b) Correlation of grazing with other forest uses; range regulation and economics; development of fundamentals for management plans. Mr. Spaulding.

40abc. Range Management. 3 Q. Autumn, 4 cr.; winter, 4 cr.; spring, 2 cr. Prerequisite, Forestry 39b or its equivalent. Western ranges, their utilization by various classes of range livestock; methods of range improvement; nutritive value of range forage plants; methods of measuring range vegetation. Mr. Spaulding.

41abc. Surveying. 3 Q. Autumn, winter, spring. 3 cr. each quarter. Prerequisite, Mathematics 35b and sophomore standing. Use, care and adjustment of instruments: tape, compass and traverse board surveys; land surveys, computation closure and area by latitude and departure and double meridian distance; transit and stadia surveys; differential, profile and reciprocal leveling; primary and secondary triangulation for control in mapping large areas; plane table and traverse board methods of making topographic and type maps; United States land survey methods. Mr. Swearingen.

42ab. Elementary Mapping. 2 Q. Any quarter. 1 cr. each quarter. Elementary lettering. Mr. Ramskill, Mr. Swearingen.

44ab. Advanced Mapping. 2 Q. Any quarter. 2 cr. each quarter. Prerequisite, Forestry 42 and 41b (may be taken concurrently). Advanced lettering; advanced map compilation; tracings. Mr. Ramskill. Mr. Swearingen.

45. Soil Erosion. 1 Q. Autumn. 2 cr. Prerequisite, junior standing. The problem of soil erosion and its relation to conservation of land resources; factors causing destructive soil erosion; methods of control by mechanical means and by vegetation.

52. Forest Mapping. 1 Q. Autumn. Winter. 2 cr. Prerequisite, Forestry 44ab. Base maps; small scale maps of large areas; map projection; topographic representations; relief maps; aerial photography and mapping. Given subject to demand. Mr. Cook.
For Undergraduates and Graduates

101. Forestry Problems and Research. 3 Q. Any quarter. 2 to 5 cr. each quarter. Forestry Staff.

102. Research Technique. 1 Q. Spring. 3 cr. Prerequisite, junior standing. Development of research technique; methods used in forest research, in collection of field data, compilation and analysis and organization of results. Forestry Staff.

For Graduates

213. Forest Policy. 1 Q. Any quarter. 3 to 5 cr. Prerequisite, undergraduate work in forest policy. Mr. Spaulding.

223. Silvicultural Investigations. 1 Q. Any quarter. 3 to 5 cr. Prerequisite, undergraduate work in silviculture. Mr. Cook.

224. Forest Mensuration. 1 Q. Any quarter. 3 to 5 cr. Prerequisite, undergraduate work in mensuration. Mr. Clark.

226. Forest Management. 1 Q. Any quarter. 3 to 5 cr. Prerequisite, undergraduate work in forest management. Mr. Clark.

231. Wood Technology. 1 to 3 Q. Any quarter. 3 to 5 cr. each quarter. Prerequisite, undergraduate work in wood technology. Mr. Ramskill.

232. Forest Products. 1 Q. Any quarter. 3 to 5 cr. Prerequisite, undergraduate work in wood technology and forest products. Mr. Ramskill.

234. Lumbering. 1 Q. Any quarter. 3 to 5 cr. Prerequisite, undergraduate work in lumbering. Mr. Ramskill.

239. Range Management. 1 Q. Any quarter. 3 to 5 cr. Prerequisite, undergraduate work in range management. Mr. Spaulding.

SCHOOL OF JOURNALISM

Professors Arthur L. Stone (Dean), Robert L. Housman (Executive Head), Andrew Cogswell, Charles W. Hardy, Instructors. Howard Hazelbaker, Albert Partoll, Assistants.

The School of Journalism gives practical training in the work of newspaper making. Professional training is combined with academic work in the College of Arts and Sciences so that graduates of the School may obtain a broad and comprehensive preparation.

For special laboratory-incidental fee see page 27.

Requirements for Admission

The regular University requirements for admission apply to the School of Journalism (see pages 15 to 18).

Requirements for Graduation

Candidates for the degree of Bachelor of Arts in Journalism must meet the following requirements:

1. The general University requirements for graduation (see pages 18 to 22), except in foreign languages.

2. A minimum of 50 credits in Journalism not including course 11abc.

3. The curriculum for majors, page 90.

Senior examinations will not be given except to candidates for honors.

Candidates for the degree of Master of Arts must comply with the regulations governing graduate work set forth on page 72.

General Information

The School’s course is four years; the first year’s work carries no credit toward the journalism major, but is planned to provide a foundation for the courses of the following three years. These years are arranged to present the features of newspaper work under conditions which parallel those existing in a newspaper office.
The Montana Kaimin, giving news of Montana, its campus, and items of national collegiate interest, is issued throughout the University year. On this newspaper the students supplement class instruction by work in the gathering, handling and presentation of news, as well as in advertising, business management and editorial interpretation and comment.

The School receives the leading newspapers, professional publications and public relations materials from organizations the country over, in addition to copies of daily "flimsy" donated by the Associated Press, the United Press and the International News Service. These materials are used as a basis of instruction throughout the entire course.

The relationship between the School of Journalism and the Montana State Press Association is close and pleasant. The School furnishes to the newspapers of the state a news service from the University. The State Press Association has appointed an advisory board for the School of Journalism.

*Students who do major work in Journalism are required, at the beginning of their second year, to provide themselves each with a "desk library" consisting of a copy of The Bible, Webster's Collegiate Dictionary and a World Almanac (or its equivalent).*

### Curriculum for Majors in Journalism

#### Freshman Year

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<td>Military Science 12abc (Men)</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td><em>Electives</em></td>
<td>3-5</td>
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<td><strong>Total</strong></td>
<td>18-20</td>
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#### Junior Year

<table>
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<th>Course</th>
<th>Autumn</th>
<th>Winter</th>
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<tr>
<td>Journalism 24 and 25ab</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Journalism 31</td>
<td>3</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Journalism 39</td>
<td>2</td>
<td>2</td>
<td>2</td>
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<td><em>Electives</em></td>
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#### Senior Year

<table>
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<tr>
<td>Journalism 50</td>
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<td>2</td>
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<tr>
<td>Journalism 46ab and 47</td>
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<tr>
<td>Journalism 41</td>
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<td>16-18</td>
<td>16-18</td>
<td>16-18</td>
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</table>

*Electives should be selected in Economics or Sociology, Psychology, Modern or Classical Languages, Literature, History, and in the School of Journalism course 48 (senior year).*
For Undergraduates

11abc. Elements of Journalism. 3 Q. Autumn, winter, spring. 5 cr. each quarter. Open only to first year students in the School of Journalism. Credits in this course do not count toward a major. Reporting. What is News? Methods of gathering and writing news. Study of news sources and services. Practice with assignments. Current events. Mr. Cogswell. Mr. Stone.

12abc. Survey of Journalism. 3 Q. Autumn, winter, spring. 3 cr. each quarter. Prerequisite, sophomore standing. Not open to students who have had Journalism 11abc. A course for non-majors in Journalism. Newspaper practice and usage; publicity and public relations; news writing; news evaluating; history of the newspaper; current events, combined with practice in reporting. This course is not subject to the laboratory-incidental fee. Mr. Housman.

513. The Press in Society. 1 Q. Summer. 2½ cr. Open to all students. The newspaper in its relation to social groups and the problems involved; history and development of the press. Mr. Housman.

21abc. Advanced Reporting and Editing. 3 Q. Autumn, winter, spring. 5 cr. each quarter. Prerequisite, Journalism 11abc or consent of instructor. History and principles of Journalism; study of news associations and the transmission and evaluation of news; newspaper usage; the handling of news in representative newspapers; news writing; forms of composition; correspondence, state, district or sectional; rewriting; the features; reviewing, editing; copy reading; head writing; makeup. Mr. Cogswell. Mr. Housman.

24. Public Relations. 1 Q. Autumn. 3 cr. Prerequisite, Journalism 21abc or junior standing. The power of public opinion and influences which affect it; relation between the newspaper and public opinion. A project is required. Mr. Cogswell.

25ab. Editorial Writing. 2 Q. Winter, spring. 3 cr. each quarter. Prerequisite, Journalism 21abc. Preparation and presentation of editorial interpretation and comment. Editorial history; functions of the editorial page. Emphasis upon newspaper ethics and principles. In the second quarter the class is organized to function as a newspaper editorial writing staff. Mr. Housman.

31. Kalmin Laboratory. 3 Q. Any quarter. 3 cr. each quarter. Prerequisite, Journalism 21ab. Students may enter any quarter. Not more than 9 credits may be applied toward graduation. Practical work supplementing class instruction by actual gathering, handling and presentation of news; practice in advertising, business, managerial and editorial writing phases. Mr. Cogswell.

33. Newspaper Administration. 3 Q. Any quarter. 3 cr. each quarter. Prerequisite, junior standing; Journalism 21abc and 31 and consent of instructor. Students may enter any quarter. Not more than 9 credits may be applied toward graduation. A laboratory course presenting concretely problems of editorial and business administration. The Kalmin furnishes case material. Mr. Stone.

36. Contemporary News Events. 1 Q. Autumn. 2 cr. Summer. 4 cr. Current history of the world; its background; its relationships; its probable influence; discussions of methods of presenting this subject in school work. ReplacesCurrent Events in the summer quarter. Mr. Housman.

39. Newspaper Library Methods. 3 Q. Any quarter. 2 cr. each quarter. Prerequisite, Journalism 21abc. Students may enter any quarter. Not more than six credits may be applied toward graduation. Practical study of newspaper office methods and practice. Mr. Partoll.

41. State and Local Correspondence. 3 Q. Any quarter. 3 cr. each quarter. Prerequisite, Journalism 39 or senior standing. Students may enter any quarter. Not more than 9 credits may be applied toward graduation. ReplacesJournalism Laboratory 41. Mr. Cogswell.

45. Advertising. 2 Q. Autumn, winter. Continuous. 4 cr. Prerequisite, Journalism 24. The theory of advertising; the designing, selling and distribution problems of the advertiser. Mr. Stone.

47. The Newspaper. 1 Q. Spring. 2 cr. Prerequisite, Journalism 45 and senior standing. Newspaper history, organization, responsibility; coordination of departments. Mr. Stone.

48. Senior Practice Laboratory. 3 Q. Autumn, winter, spring. Continuous. 9 cr. Open only to seniors in Journalism. Mechanical problems of newspaper production. Practical work in the printing laboratory. Mr. Hardy.

50. Journalism Literature. 3 Q. Autumn, winter, spring. 2-5 cr. each quarter. Prerequisite, senior standing. Students may enter any quarter. Consideration of newspaper problems, ethics, and principles. Bibliographic studies. Mr. Housman.
For Undergraduates and Graduates


For Graduates

201. Research in Journalism. 1 to 3 Q. Autumn. Winter. Spring. Credit variable. Prerequisite, Journalism 136 and training essential to the special topic undertaken. Research for graduate students majoring in journalism of a distinctly contributive nature. Mr. Housman.

SCHOOL OF LAW

Professors Charles W. Leaphart (Dean), David R. Mason, Walter L. Pope, J. Howard Toelle; Associate Professor Allen K. Smith.

The School of Law is located in a modernly equipped law school building with adequate class, office, library and court room facilities. The school has a good working library of 23,000 volumes. To a very great extent the library is the result of the generous gifts and legacies of Mrs. W. W. Dixon, and gifts of Judge John J. McHatton and the Anaconda Copper Mining Company. The school is a member of the Association of American Law Schools and is one of the schools approved by the American Bar Association.

Requirements for Admission.

Applicants for admission must have completed 90 credits of work acceptable for the Bachelor's degree at Montana State University exclusive of credit earned in non-theory courses in military science, domestic arts, physical education and personal hygiene, vocal or instrumental music, and courses of similar character. This work shall be done in residence in a college or university of recognized standing. Applicants must offer for admission as many grade points as credits earned.

Although students may be admitted who have successfully completed two years of college work (i.e., normally 102 credits), three years of pre-legal preparation are recommended.

It is recommended that pre-legal students complete the curriculum of the Division of Social Sciences, see page 41.

Special students are not admitted to the School of Law.

For University admission requirements, see pages 15 to 18.

Requirements for Graduation

Candidates for the Bachelor of Laws degree are required to complete:

(1) The requirements for admission listed above.

(2) A total of 126 credits in Law with an average of at least one grade point for each credit.

(3) The following courses: Contracts, Property I and II, Torts, Criminal Law and Procedure, Forms of Action, Agency, Pleading, and Practice Court.

(4) Nine quarters of work in a Law School of recognized standing, the last three of which must be completed in residence. Two summer sessions of approximately 6 weeks each will be counted as one quarter.
Candidates for the Bachelor of Arts degree with Law as a major must meet the regular University and College of Arts and Sciences requirements for graduation (pages 18 to 22 and page 39).

No student will be recommended for a degree in Law who is markedly deficient in English, nor who, in the opinion of the majority of the members of the faculty of the School of Law, is unfitted for admission to the practice of law by reason of a lack of honesty and integrity.

The special senior examination provided for on page 22 will not be given except to candidates for honors.

General Information

No student will be allowed credit in any one quarter for over 15 hours of work in the School of Law; except that in addition, within the discretion of the Dean, a student may be allowed to take an examination to remove a condition and be given credit upon satisfactory passage of the same.

The case system of instruction is employed. Special attention is given to practice court work, in which the students are required not only to argue legal questions, but to try cases, prepare appeals, and go through all the steps incident to the trial of a law suit. A thorough course is given in the use of law books.

Where courses extend over more than one quarter, credit is provisional upon the completion of and final satisfactory examination over the whole course. In continuous courses examinations also will be given at the end of the first quarter. Conditions may be removed only in the regular examinations at the end of a repetition of the course.

The honor system has been in successful operation since the foundation of the School.

The curriculum of the School of Law is designed to afford preparation for the practice of law in any of the United States, but special attention will be given in all courses to the codes and decisions of Montana.

Graduates of the School of Law may, in the discretion of the Supreme Court of Montana, be admitted to practice in the Courts of Montana without further examination.

Curriculum

First Year

<table>
<thead>
<tr>
<th>Agency</th>
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</thead>
<tbody>
<tr>
<td>Contracts</td>
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</tr>
<tr>
<td>Criminal Law and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>Forms of Action</td>
<td>3</td>
</tr>
<tr>
<td>Property I</td>
<td>3</td>
</tr>
<tr>
<td>Property II</td>
<td>3</td>
</tr>
<tr>
<td>Torts</td>
<td>3</td>
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</tbody>
</table>

Second and Third Years

| Appellate Practice | 1 |
| Bills and Notes | 2 |
| Conflict of Laws | 3 |
| Constitutional Law | 3 |
| Creditors' Rights and Damages | 2 |
| Evidence | 2 |
| Insurance | 4 |
In addition to the above curriculum, second and third year students taking History 106ab (International Law) may apply credit received in it toward a law degree.

**Courses**

**Agency.** Mechem's Cases on Agency (second edition). Mr. Pope.

**Contracts.** Williston's Cases on Contracts (third edition). Mr. Leaphart.

**Criminal Law and Procedure.** Sayre's Cases on Criminal Law. Mr. Mason.

**Forms of Action.** Magill's Cases on Civil Procedure. Mr. Toelle.

**Property I.** Fraser's Cases on Property. Mr. Smith.

**Property II.** Aigler's Cases on Titles. Mr. Smith.

**Torts.** Bohlen's Cases on the Law of Torts (third edition). Mr. Toelle.

**Appellate Practice.** Smith's Cases and Material on Appellate Practice. Mr. Pope.

**Bills and Notes.** Smith & Moore, Cases on Bills and Notes (third edition). Mr. Mason.

**Conflict of Laws.** Casebook to be selected. Mr. Smith.

**Constitutional Law.** Hall's Cases on Constitutional Law. Mr. Mason.

**Creditors' Rights.** Hanna's Cases on Creditors' Rights. Mr. Toelle.

**Equity.** Cook's Cases on Equity (second edition). Mr. Leaphart.

**Evidence.** Morgan & Maguire's Cases on Evidence. Mr. Pope.

**Insurance.** Vance's Cases on Insurance. Mr. Mason.

**Irrigation Law.** Bongham's Cases on Water Rights. Mr. Toelle.

**Legal Ethics.** Costigan's Cases on Legal Ethics (revised edition). Mr. Toelle.

**Mining Law.** Costigan's Cases on Mining Law. Mr. Toelle.

**Partnerships.** Mechem's Cases on Partnerships (fifth edition). Mr. Mason.


**Practice Court.** Montana Code of Civil Procedure, selected cases, and practical exercises. Mr. Pope.

**Private Corporations.** Warren's Cases on Corporations (second edition), and Berle's Cases on Corporation Finance. Mr. Smith.

**Sales.** Williston and McCurdy. Cases on Sales. Mr. Smith.

**Suretyship and Mortgages.** Langmaid's Cases on Surety. Park's Cases on Mortgages. Mr. Leaphart.

**Trusts.** Scott's Cases on Trusts (second edition). Mr. Leaphart.

**Use of Law Books.** No textbook used. Mr. Mason.

**Wills and Administration.** Costigan's Cases on Wills. Montana Code. Mr. Toelle.
SCHOOL OF MUSIC

Professors John B. Crowder, DeLoss Smith (Dean), Florence R. Smith, A. Herman Weisberg; Associate Professor Bernice Berry Ramskill; Assistant Professor Stanley M. Teel.

The School of Music prepares its graduates for the teaching and supervising of music in the public schools, develops in its students greater appreciation and ability in performance, and gives students not specializing in music the advantages of music culture in the field which their interests and talents dictate.

Requirements for Admission

1. The regular University requirements for admission apply to the School of Music (see pages 15 to 18). However, pupils are accepted for private lessons in applied music without the usual academic requirements.

2. A special entrance examination in musical aptitudes is required.

Requirements for Graduation

Candidates for the degree of Bachelor of Arts in Music and the Bachelor of Music degree with a major in applied music must meet the following requirements:

1. The general University requirements for graduation (see pages 18 to 22), except in foreign languages.

2. A music curriculum which is satisfactory to the staff of the School of Music. (See A and B below.)

3. A comprehensive examination over the major field of study.

General Information

Students who do not major in Music will be allowed to count towards graduation only six credits in ensemble work and twelve credits in applied music. Applied music courses are indicated by a star (*) and ensemble music courses by a dagger (†) affixed to the number of the course description.

Students of all ages and without the usual academic preparation may enroll for applied music subjects, but credit for the work is granted only to students who are eligible to register for regular University courses.

Music majors are required to participate in the glee clubs, chorus, orchestra, and band.

Student recitals are given at intervals during the year. All music majors are required to attend.

Candidates for graduation in Public School Music must have a minimum proficiency in applied music as follows:

Piano. Ability to play accompaniments of typical high school glee club music, and to play hymns and similar music.

Voice. Understanding of the problem of the child voice, the adolescent voice, ability to read and sing typical high school music acceptably, and not less than two years in University glee club and chorus.

Violin. Ability to play acceptably violin parts of typical music for high school orchestras, and not less than two years in University orchestra.
Brass or Wood Wind Instrument. (Preferably trumpet or clarinet.) Ability to play acceptably first trumpet or first clarinet part of typical music for high school band, and not less than two years in University band.

A. Suggested Curriculum for Bachelor of Arts Degree in Music

General Supervisors' Course, Public School Music

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
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<tbody>
<tr>
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<td>2</td>
</tr>
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<td>Music 27abc</td>
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<td>2</td>
<td>2</td>
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<tr>
<td>Applied Music 11, 13, 15, or 19</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Music 29abc</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Music 35abc</td>
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<tr>
<td>Mathematics or Science</td>
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<tr>
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<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Military Science 11abc (Men)</td>
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</tr>
<tr>
<td>English 11ab</td>
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<td>Psychology 11</td>
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<tr>
<td>Language or Elective</td>
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<td>Military Science 12abc (Men)</td>
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<tbody>
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<td>Music 40abc</td>
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<td>1</td>
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</tr>
<tr>
<td>Music 125abc</td>
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<tr>
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<td>Music 23</td>
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<td>Music 40abc</td>
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<td>1</td>
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<tr>
<td>Music 123abc or 130abc</td>
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<td>2</td>
<td>2</td>
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<tr>
<td>Music 155abc or 123ab and 124</td>
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<tr>
<td>Electives</td>
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Note: Two of the four survey courses offered in the College of Arts and Sciences must be completed as free or restricted electives.

B. Suggested Curriculum for the Bachelor of Music Degree in Applied Music

Freshman Year

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<tr>
<td>Music 26abc</td>
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<tr>
<td>Music 27abc</td>
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<td>2</td>
</tr>
<tr>
<td>Humanities 15abc</td>
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<td>5</td>
</tr>
<tr>
<td>Language or Elective</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Physical Education 11abc</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Military Science 11abc (Men)</td>
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<table>
<thead>
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<td>2</td>
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<tr>
<td>Humanity 15abc</td>
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<td>Language or Elective</td>
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<tr>
<td>Military Science 11abc (Men)</td>
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### School of Music

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
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</thead>
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<td>Applied Music 11, 13, 15, 17 or 19</td>
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<td>2</td>
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<tr>
<td>Music 35abc</td>
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<tr>
<td>Music 36abc</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>English 11ab and Elective</td>
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</tr>
<tr>
<td>Biological Science 13abc</td>
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<tr>
<td>Music Elective or Chorus</td>
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<tr>
<td>Physical Education 12abc</td>
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<td>Military Science 12abc (Men)</td>
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<tr>
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<td>18-19</td>
<td>18-19</td>
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**Junior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Autumn Quarter Credits</th>
<th>Winter Quarter Credits</th>
<th>Spring Quarter Credits</th>
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<td>Music 40abc</td>
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<tr>
<td>Music 125abc</td>
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<td>Music 140abc</td>
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<td>English and Social Science Electives</td>
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**Senior Year**

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<td>Music 40abc</td>
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<td>Music 141, 23, 142</td>
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<td>Music 159abc</td>
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<td>Education, Social Science, or Psychology Elective</td>
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**Note:** The suggested curriculum for the Bachelor of Music Degree does not lead to certification for teaching in the public schools.

### For Undergraduates

**11.** Voice. 1 Q. Autumn. Winter. Spring. 1 or 2 cr. Summertime ½ or 1 cr. Individual instruction. Mr. Smith.

**12.** Voice in Class. 1 Q. Autumn. Winter. Spring. 1 or 2 cr. Summertime. One hour class lessons. Four in each class. Mr. Smith.

**13.** Piano. 1 Q. Autumn. Winter. Spring. 1 or 2 cr. Summertime ½ or 1 cr. Individual instruction. Mr. Crowder. Mrs. Ramskill.

**14.** Piano in Class. 1 Q. Autumn. Winter. Spring. 1 or 2 cr. One hour class lessons. Four in each class. Mr. Crowder. Mrs. Ramskill.

**15.** Violin. 1 Q. Autumn. Winter. Spring. 1 or 2 cr. Summertime ½ or 1 cr. Individual instruction. Mr. Weisberg.

**16.** Organ. 1 Q. Autumn. Winter. Spring. 1 or 2 cr. Summertime ½ or 1 cr. Individual instruction. Mrs. Smith.

**17.** Organ in Class. 1 Q. Autumn. Winter. Spring. 1 or 2 cr. One hour class lessons. Four in each class. Mrs. Smith.

**18.** Wind Instruments. 1 Q. Autumn. Winter. Spring. 1 or 2 cr. Individual instruction. Mr. Teel.

**20.** Wind Instruments in Class. 1 Q. Autumn. Winter. Spring. 1 or 2 cr. One hour class lessons. Four in each class. Mr. Teel.

**23.** Class Piano Methods. 1 Q. Autumn. Winter. Spring. 1 or 2 cr. Summertime. 2½ cr. Prerequisite, consent of instructor. A normal class for piano teachers and public school music instructors dealing with methods and materials for teaching piano classes in public schools and private studios. Practical demonstrations with children's classes. Required of all music majors. Mrs. Ramskill.

**24.** Piano Ensemble. 1 Q. Autumn. Winter. Spring. 1-2 cr. Prerequisite, consent of instructor. Four players in a group. Designed to give practice in sight reading and to acquaint the student with symphonic and ensemble literature. Mr. Crowder.

**25abc.** String Instruments Methods. 3 Q. Autumn, winter, spring. 1 cr. each quarter. Instruments to be selected by students with advice and consent of instructor. Mr. Weisberg.

*Applied Music.*
26abc. Elementary Harmony. 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, familiarity with piano sufficient to play chords. Construction and use of triads in major and minor keys; inversion of triads; cadences: dominant seventh chords and their inversions; modulation. Mr. Weisberg.

27abc. Sight Singing and Ear Training. 3 Q. Autumn, winter, spring. 2 cr. each quarter. Summer. 2½ cr. Prerequisite, consent of instructor. Beginning sight singing, including one, two, three and four-part work; melody writing, melodic and harmonic dictation, notation and terminology. Mr. Teel.

28abc. Wind Instruments Methods. 3 Q. Autumn, winter, spring. 1 cr. each quarter. Prerequisite, consent of instructor. Fundamentals of chorus and instrumental conducting are studied. The University choral and instrumental groups are made available to advanced students for practical experience. Mr. Teel.

29abc. Technique of Conducting. 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, consent of instructor. Fundamentals of chorus and instrumental conducting are studied. The University choral and instrumental groups are made available to advanced students for practical experience. Mr. Teel.

30abc. Music Appreciation and History. 3 Q. Autumn, winter, spring. 3 cr. each quarter. Summer 2½ cr. No prerequisite for students majoring in Music; for others, sophomore standing. Students may enter any quarter. The elements of musical understanding: musical progress from ancient times to modern. Music of important periods of composition illustrated by means of phonograph selections and departmental programs. A reading knowledge of music is necessary only for 35c. Mr. Teel.

31abc. Advanced Harmony. 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, Music 26c. Modulations, secondary seventh chords, counterpoint, diminished seventh chord, augmented chords and suspensions. Mr. Weisberg.

†32abc. Orchestra. 3 Q. Autumn, winter, spring. 1 cr. each quarter. Prerequisite, consent of director. Mr. Weisberg.

33abc. Recital-Lectures. 1 Q. Summer. 1 cr. Open to all students. A course presenting the piano compositions of various periods and schools, with historical and analytical comment by the performer. Mr. Crowder.

†34abc. University Band. 3 Q. Autumn, winter, spring. 1 cr. each quarter. Prerequisite, completion of or exemption from the required Military Science. May be repeated for credit. Mr. Teel.

†35abc. Ensemble Groups. 3 Q. Autumn, winter, spring. 1 cr. each quarter. Major students must present a minimum of 6 credits toward graduation. Any small group of two or more players or singers may have a course outlined by the instructor. Opportunity is offered for the development of sight reading and for gaining an acquaintance with musical literature; accompanying. Music staff.

†36abc. Women’s Glee Club. 3 Q. Autumn, winter, spring. Continuous. 3 cr. Mr. Smith.

†37abc. Men's Glee Club. 3 Q. Autumn, winter, spring. Continuous. 3 cr. Mr. Smith.

†38abc. A Capella Choir. 3 Q. Autumn, winter, spring. Continuous. 6 cr. Oratorios, cantatas, and part songs studied and performed in recitals and concerts. May not be repeated for credit. Mr. Smith.

123ab. Elementary School Music. 2 Q. Autumn, winter. 3 cr. each quarter. Prerequisite, Music 27c or consent of instructor. Music of the first six grades of school. Child voice, rhythmic development, rote singing. Given in 1937-38, and in alternate years. Mr. Teel.

124. Junior High School Music. 1 Q. Spring. 3 cr. Prerequisite, Music 123ab. Given in 1937-38, and in alternate years. Mr. Teel.

125abc. Counterpoint. 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, Music 36c. Two, three and four-part counterpoint. Mr. W. Weisberg.

126abc. Orchestration. 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, Music 125c. Mr. Weisberg.

130abc. Band and Orchestra Technique. 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, consent of instructor. A course designed to furnish band and orchestra conductors with practical and methods of preparing for public performance. Given in 1937-38, and in alternate years. Mr. Teel.

140abc. Interpretation and Style. 3 Q. Autumn, winter, spring. 1 cr. each quarter. Prerequisite, consent of instructor. Given in 1937-38, and in alternate years. Piano compositions of different national schools and periods and characteristics of each from the standpoint of interpretation and style. May not be repeated for credit. Mr. Crowder.

†Ensemble Music.
141. Score Reading. 1 Q. Autumn. 2 cr. Prerequisite, junior standing. Music staff.

142. Senior Recital. 1 Q. Spring. 2 cr. Prerequisite, senior standing and consent of instructor. Music staff.

155abc. High School Music and Supervision. 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, Music 124 or consent of instructor. Music of the senior high school; bands, orchestras, glee clubs, chorus. Problems of community music, rural music, festivals, operettas; conducting. Given in 1936-37, and in alternate years. Mr. Teel.

159abc. Forms and Composition. 3 Q. Autumn, winter, spring. 2 cr. each quarter. Prerequisite, Music 125c. Invention and fugue. May be elected in the senior year. Mr. Welsberg.

Applied Music Fees per quarter (12 weeks)

Voice 11, Piano 13, Violin 15. Two lessons a week $48.00
One lesson a week 24.00
Organ 17, Wind Instruments 19. Two lessons a week 36.00
One lesson a week 18.00
Voice 12, Piano 14 and 24. Two lessons a week 24.00
One lesson a week 12.00
Organ 18, Wind Instruments 20. Two lessons a week 18.00
One lesson a week 9.00
*Music 23 10.00
*Music 25abc and 29abc (two lessons a week) 5.00
Music 26abc, 36abc, 125abc. Two class lessons a week 3.00

Fees will be adjusted individually for students registered for less than a full quarter.

No absence from lessons will be excused. Lessons lost through fault of the instructor will be made up. Lessons falling on legal holidays will not be made up.

Rentals, per quarter (12 weeks)

Piano and practice room. One hour daily 3.00
Additional hour daily 2.00
Organ and practice room. One hour daily 12.00
Additional hour daily 12.00
Practice room for violin students. One hour daily 1.00
Additional hour daily .50

Students registering in Music 25abc and 29abc must rent instruments unless they provide their own.

Rentals must be paid for entire quarter. No refunds of rentals will be made.

SCHOOL OF PHARMACY

Professor Charles E. F. Mollett (Dean); Associate Professor John F. Suchy; Assistant Professor Leon Richards.

The School affords opportunities to students to obtain a thorough technical education in Pharmacy. By properly selecting courses in Chemistry and Bacteriology, graduates of this School may prepare for positions as laboratory technicians.

Requirements for Admission

The regular University requirements for admission apply to the School of Pharmacy (see pages 15 to 18).

*Fee assessed only to students not majoring in music.
Requirements for Graduation

Candidates for the degree of Bachelor of Science in Pharmacy must meet the following requirements:

(1) The general University requirements for graduation (see pages 18 to 22).

(2) A minimum of 78 credits in Pharmacy which must include courses 12, 13, 14, 20, 22, 27, 31, 33, 42, and 4 credits of 65; Chemistry 13, 19 or 101; Zoology 24 and Bacteriology 119a.

Senior examinations will not be given except to candidates for honors.

Note: According to the recommendations adopted by the National Association of Boards of Pharmacy, the American Association of Colleges of Pharmacy and other national pharmaceutical bodies, all of the recognized schools of pharmacy are now upon a four-year minimum course basis.

Candidates for the degree of Master of Science in Pharmacy must comply with the regulations governing graduate work set forth on page 72.

General Information

This School is a member of the American Association of Colleges of Pharmacy.

As an important addition to the equipment in pharmacy, a small plot is devoted to the raising of medicinal plants to provide material for laboratory use of students in the courses of pharmacognosy, manufacturing pharmacy and drug analysis. The enterprise has received assistance from the Bureau of Plant Industry of the United States and from a number of schools of pharmacy of other states which have well-established gardens.

Pharmacy majors automatically become members of the Pharmacy Club, and associate members of the Montana State Pharmaceutical Association.

Suggested Curriculum for Majors in Pharmacy

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<thead>
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<th>Freshman Year</th>
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Junior Year

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Senior Year

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<td>Pharmacy 65</td>
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For Undergraduates

12. Metrology and Introductory Pharmacy. 3 Q. Autumn, winter, spring. Continuous. 6 cr. Official weights and measures; important pharmaceutical calculations and introduction to pharmacy. Mr. Mollett.

13. Pharmaceutical Botany and Pharmacognosy. 3 Q. Autumn, winter, spring. Continuous. 12 cr. Pharmaceutical botany and crude vegetable and animal drugs: their sources; identification; constituents; official names and synonyms; doses and uses. Mr. Suchy.

14. Pharmaceutical Chemistry. 3 Q. Autumn, winter, spring. Continuous. 12 cr. The pharmaceutical chemistry of the official inorganic and organic substances and preparations is studied with regard to nomenclature, source and preparation, physical properties and pharmaceutical uses and doses. Mr. Richards.

15. Field Pharmacognosy. 1 Q. Autumn. Spring. 2 or 3 cr. Prerequisite, Pharmacy 13. The official indigenous drug plants; those grown in the medicinal garden are studied as to propagation, methods of selection, and preservation of the parts used in pharmacy. Mr. Suchy.

20. Galenical Pharmacy. 3 Q. Autumn, winter, spring. Continuous. 12 cr. Prerequisite, Pharmacy 12, 13, 14, and Chemistry 13. Pharmaceutical preparations in the United States Pharmacopoeia and National Formulary are studied in connection with laboratory training in the manufacture of most of these. Mr. Richards.

22. Drug Analysis. 3 Q. Autumn, winter, spring. Continuous. 12 cr. Prerequisite, Pharmacy 12, 13, 14, 20, and Chemistry 13. Chemical analysis of inorganic and organic drugs: preparations according to the methods of the U. S. P. and N. F. Mr. Suchy.


31. Pharmacology. 3 Q. Autumn, winter, spring. Continuous. 6 cr. Prerequisite, Pharmacy 20, 22, and 27. Mr. Mollett.

33. Abstracts. 3 Q. Autumn, winter, spring. Continuous. 6 cr. Prerequisite, Pharmacy 27. The preparation of abstracts. Reading and discussion of articles in current pharmaceutical literature. Mr. Mollett.

35. Dispensing. 3 Q. Autumn, winter, spring. Continuous. 12 cr. Prerequisite, Pharmacy 20, 22, and 27. A technical study of all phases of the prescription; practical exercises in sight reading; extemporaneous compounding. Mr. Richards.

38. Special Problems. 3 Q. Autumn, winter, spring. 2 to 6 cr. Prerequisite, senior standing in pharmacy. Special problems within the scope of the facilities of the School which meet the needs and qualifications of the student. A maximum of 6 credits may be offered towards graduation. Mr. Mollett.

40. Evolution of Pharmacy. 1 Q. Any quarter. 2 cr. Prerequisite, senior standing. The origin, evolution and present status of the profession; outstanding pharmacists of the past and present and their scientific contributions. Mr. Mollett.
42. Pharmaceutical Ethics. 1 Q. Any quarter. 2 cr. Prerequisite, senior standing. The ethics of pharmacy from ancient to modern times, as embodied in the various codes. The major responsibilities of pharmacists: their duties in relation to the public; to the physician; to each other and to the profession of pharmacy. Mr. Mollett.

65. Advanced Analysis. 3 Q. Any quarter. 2 to 4 cr. each quarter. Prerequisite, Pharmacy 35 and 31. The study and detection of the common organic and inorganic poisons, with emphasis on those of alkaloidal or glucosidal nature. Physical, microscopic and chemical methods form the basis of separations and identifications. A maximum of 12 credits may be offered towards graduation. Mr. Suchy.

For Graduates

201. Research. 3 Q. Any quarter. Credit variable. Work on selected problems for properly qualified students. Pharmacy Staff.

MILITARY SCIENCE AND TACTICS


The University maintains an infantry unit of the Reserve Officers' Training Corps, senior division, organized in 1919, under authority of the National Defense Act.

"The general object of the courses of instruction of the Reserve Officers' Training Corps is to qualify students for positions of leadership in time of national emergency."—Excerpt, War Department publication A. G. 353 R. O. T. C., 1932. Every effort is made to develop the initiative and other qualities of leadership necessary for success in any walk of life.

Students enrolled in the R. O. T. C. courses have no obligation for military service in a national emergency other than that of any able-bodied citizen. Students satisfactorily completing the advanced course are commissioned as second lieutenants, Infantry Reserve, with attendant obligations.

All resident men students of freshman and sophomore standing who are citizens of the United States and who are physically fit are required to take the basic R. O. T. C. course except those who may claim exemption under any of the following reasons:

SECTION I. Credits for complete exemptions.

(a) GENERAL REQUIREMENTS:
1. Students who have reached the age of 26 years at the beginning of the quarter.
2. Filipino students who have not been legally admitted as citizens of the United States.

(b) MILITARY REQUIREMENTS: (Upon presentment of the necessary credentials.)
1. Completion of two years of military instruction in a Senior R. O. T. C. Unit.
3. Completion of one enlistment in the National Guard.
4. Attendance at two National Guard Training Camps which consisted of at least two weeks training at each camp.
5. Students who have served in any branch of the Army or Navy.

SECTION II. Credit for exemption of one year.
(a) Attendance at one Citizen's Military Training Camp.
(b) Attendance at one National Guard Training Camp, which consisted of at least two weeks training.

SECTION III. Exemption for training in a Junior Division, or in any college or school conducting military training.
Students who have received previous military training in a Junior Unit or in some other school or college conducting military training under an officer of the Army, will receive such credit as the professor of Military Science and Tactics and the head of the institution may jointly determine.

All male students, unless exempted under Section I of the above regulations, must register in the Department during the first quarter of their attendance at the State University and each succeeding quarter until the requirement is completed.

Students who have satisfactorily completed the basic course are eligible to make application for the advanced course which covers two additional years. Students are carefully selected according to military and scholastic merit from those who make application for this course. Before being admitted to the advanced course they must pass a thorough physical examination and must execute a written contract to complete the course and pursue a period of summer camp training as a prerequisite to graduation from the institution.

The Federal Government supports military training at this institution by providing uniforms and by furnishing instructional material, weapons, equipment, and regular army personnel for instruction and administration. The president of the university is bonded for the full value of government property so furnished. Each member of the basic course is issued a uniform which must be properly worn while attending military classes. No deposit is required, but lost articles must be paid for by the student.

For Undergraduates

**11abc. Military Science and Tactics.** 3 Q. Autumn, winter, spring. 1 cr. each quarter. Students may enter any quarter. National Defense Act and Reserve Officers' Training Corps; obligations of citizenship; military history and policy; current international situation; military discipline; courtesies and customs; military sanitation and first aid; military organization; general organization of infantry with special reference to rifle, machine gun, howitzer, supply and headquarters companies; map reading; leadership and rifle marksmanship. Military staff.

**12abc. Military Science and Tactics.** 3 Q. Autumn, winter, spring. 1 cr. each quarter. Prerequisite, Military Science 11abc. Students may enter any quarter. Military history; leadership; automatic rifle; characteristics of infantry weapons; combat training; musketry; scouting and patrolling; functions of platoon scouts; combat principles. Military staff.

**13abc. Military Science and Tactics.** 3 Q. Autumn, winter, spring. 2½ cr. each quarter. Prerequisite, Military Science 12abc. Aerial photograph reading, leadership; weapons; machine guns; howitzer company weapons; pistol; rifle marksmanship; combat training; field fortifications. Military staff.

**14abc. Military Science and Tactics.** 3 Q. Autumn, winter, spring. 2½ cr. each quarter. Prerequisite, Military Science 13abc. Military history and policy; military law; company administration and supply; Officers' Reserve Corps regulations; leadership; tanks; mechanization; combat training. Military staff.

*Basic Course.

†Advanced Course.
THE MONTANA SCHOOL OF RELIGION

Professor and Director O. R. Warford.

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

The University allows a maximum of fifteen credits toward graduation for courses taken in the School of Religion. Additional information concerning these courses may be obtained from the Director of the School of Religion at the State University.

For Undergraduates

21R. The Religions of Mankind. 1 Q. Autumn. 3 cr. Open to all students. A survey of the historic, psychological, and literary setting of religions, indicating their values, weaknesses, and strengths. Designed to increase appreciation for this part of the cultures of other peoples. Given in 1936-37, and in alternate years. Mr. Warford.

22R. Literature of the Old Testament. 1 Q. Winter. 3 cr. Chief poetic and historic writings of the Old Testament from a literary viewpoint. Designed to increase the understanding of the common life of the Semitic peoples, and their contribution for their civilization. Given in 1936-37, and in alternate years. Mr. Warford.

23R. New Testament Literature and Life. 1 Q. Spring. 3 cr. The life of Jesus and its effect upon the times following. The founding of the apostolic church; the historic antecedents and consequences of the Christian tradition. Given in 1936-37, and in alternate years. Mr. Warford.

24R. Philosophy of Religion. 1 Q. Autumn. 3 cr. Open to all students. An attempt to place religion in its modern setting; its relationship to the sciences and the social processes, and its possible effects and values. Given in 1935-36, and in alternate years. Mr. Warford.

25R. Christian Ethics. 1 Q. Winter. 3 cr. The historic sources of ethical idealism in the West and its development leading up to current ethical thinking and action. Given in 1935-36, and in alternate years. Mr. Warford.

26R. The Prophetic Heritage. 1 Q. Spring. 3 cr. The social teachings of the Prophets of Israel, including Jesus, and the implications of their teachings for modern times. Given in 1935-36, and in alternate years. Mr. Warford.

SUMMER SESSION

The Summer Session of Montana State University for 1936 will be a nine-weeks' session, beginning June 15 and ending August 14. The School of Music and the Departments of Fine Arts and Latin will continue for the first six weeks only. Students may attend the first six, the last six, or the entire nine weeks. For further information see Summer Session Bulletin.

Courses

The departments of the College of Arts and Sciences which will offer courses during the Summer Session 1936 are: Biology, Botany, Economics and Sociology, English, Fine Arts, Foreign Languages, Geol-
ogy, History and Political Science, Library Economy, Mathematics, Physical Education, Physics, and Psychology. The Schools of Business Administration, Education, Journalism, and Music will also offer courses.

**Admission**

Requirements for admission to the Summer Session are the same as the requirements for entrance during the regular college year. (Pages 15 to 18).

**Registration Fee**

Registration fee for the Summer Session is $23.50. Students who register for less than five undergraduate credits or the equivalent pay $11.75. Students registered only as listeners pay $11.75.

Scholarships, including high school honor scholarships, do not exempt holders from payment of the Summer Session fee.

For further information regarding Summer Session fees see Summer Session Bulletin.

**Credit Toward Degrees**

University credit toward degrees is given to those who satisfy the regular entrance requirements. The normal schedule which may be carried during the nine weeks of the session is 12 credits, plus 1 credit in Physical Education S11 and 1 credit in Applied Music; the maximum registration for six weeks is 7½ credits plus 1 credit in either Physical Education S11 or in Applied Music. Permission to carry more than this number is granted only for special reasons.

Residence requirements for the bachelor's degree may be fulfilled by four summer sessions of nine weeks each, during which time the student must complete at least forty-five quarter credits. Of the last forty-five credits required for graduation, thirty-five credits must be earned in residence at Montana State University.

**Credit Toward Teachers' Certificates**

Courses required for Montana teachers' certificates, first grade, state, and life, will be given.

**Graduate Work**

During the Summer Session, properly qualified students may do work toward the master's degree. Residence requirements for the master's degree may be fulfilled by three summer sessions of nine weeks each provided the student meets regulations governing graduate study and the granting of the master's degree (see page 72).

**Certificate of Attendance**

Students in the Summer Session who are not registered as candidates for degrees, will, upon request to the Registrar, receive a certificate of attendance for courses satisfactorily completed.

**Recreation**

An attractive feature of the Summer Session is the recreational program, which includes organized week-end excursions and camping trips, picnics, campfire parties, golf, tennis, baseball and swimming. The pleasant summer climate and picturesque mountain country of western Montana provide an ideal background for a combination of study and recreation.
### SUMMARY OF REGISTRATION, 1935-36

<table>
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<tr>
<th>COLLEGE, SCHOOL, OR COURSE</th>
<th>Graduates</th>
<th>Seniors</th>
<th>Juniors</th>
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