THE

UNIVERSITY OF OREGON

CATALOGUE 1908-1909

Announcements for 1909-1910

EUGENE

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April, 1909

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THE REGISTRAR,
University of Oregon, Eugene, Oregon.

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CALENDAR

September 20.—Admission examinations.
September 21 to February 11.—First semester.
February 14 to June 22.—Second semester.

CALENDAR IN DETAIL

September 13, Monday.	Session of the School of Medicine begins in Portland.
September 20, Monday.	Session of the School of Law begins in Portland.
September 20, Monday.	Entrance examinations at Eugene for the College of Literature, Science and the Arts, and the College of Engineering. Test examination in English.
September 21, Tuesday. Sept. 22, Wednesday.	First semester opens. Filing of applications for undergraduate, graduate n special student standing. Payment of incidental fees and registration. Committees of the Faculty and Instructors keep office hours for consultation with the students.
September 23, Thursday.	All University work begins.
October 1, Friday.	Reception to the new students by the Christian Associations.
October 6, Wednesday.	Regular meeting of Associated Students.
October 8, Friday.	Last date for filing subjects for senior theses with the Registrar.
November 23, Tuesday.	Annual Glee Club Concert.
November 24, 12 M. to November 28, Sunday.	Thanksgiving recess.
December 6, Monday. December 7, Tuesday.	Examinations for removal of conditions.

December 11, Saturday.	Sophomore Party.
December 18, Saturday to January 2, Sunday.	Christmas vacation.
January 7, Friday.	Last date of filing with Registrar subjects for Failing and Beekman orations.
January 7, Friday.	Annual tryout Interstate Debating Team.
January 18, Tuesday.	Regular meeting of the Board of Regents, Villard Hall.
January 28, Friday.	Annual contest in Oratory to choose representative for Intercollegiate contest.
February 2, Wednesday.	Mid-year examinations begin.
February 11, Friday.	First semester ends.
February 14, Monday.	Second semester begins.
February 18, Friday.	Annual contest in Oratory to choose representative for Interstate contest.
February 19, Saturday.	Freshman Glee.
February 23, Wednesday.	Regular meeting of Associated Students.
March 25, Friday.	Annual Interstate Debate. Villard Hall.
April 16, Saturday. April 24, Sunday.	Spring vacation.
April 30, Saturday.	Graduating exercises School of Medicine.
April 30, Saturday.	Preliminary tryout for Failing and Beekman orators.
April 30, Saturday.	Date for filing with the Registrar typewritten copies of the Failing and Beekman orations.
May 2, Monday. May 3, Tuesday.	Examinations for removal of conditions.
May 2, Monday.	Last date for filing applications for graduate degrees with the Registrar.
May 9, Monday.	Last date for filing graduate theses with the Registrar.

May 11, Wednesday.	Regular meeting of Associated Students. Annual Election.
May 13, Friday. May 14, Saturday.	Junior Week-End. A holiday.
May 21, Saturday.	Session of the School of Law ends.
June 4, Saturday.	Last date for filing senior theses with the Registrar.
June 8, Wednesday.	Final examinations begin.

COMMENCEMENT WEEK

June 19, Sunday.	Baccalaureate sermon, 11 a m.
June 20, Monday.	Field day, 2 p. m.; Recital School of Music, 8 p. m.
June 21, Tuesday.	Alumni business meeting, 10 a. m.; President's reception, 3 p. m.; Failing-Beekman contest, 8 p. m.
June 21, Tuesday.	Regular meeting of the Board of Regents, President's office, Villard Hall.
June 22, Wednesday.	Commencement exercises, 10 a. m.; Alumni banquet, 1 p. m.; Alumni ball, 9 p. m.

REGULAR MEETINGS OF THE FACULTY 1909-10

Thursday, October 7, 1909
Thursday, November 4, 1909
Thursday, December 2, 1909
Thursday, January 6, 1910
Thursday, February 3, 1910
Thursday, March 3, 1910
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Thursday June 2, 1910

REGULAR MEETINGS OF THE ATHLETIC COUNCIL 1909-10

Saturday, September 18, 1909
Saturday, December 18, 1909
Saturday, March 19, 1910
Saturday, June 18, 1910

OFFICERS OF THE UNIVERSITY

THE BOARD OF REGENTS

OFFICERS

HON. ROBERT S. BEAN, President.
HON. STUART B. EAKIN, Treasurer.
L. H. JOHNSON, Secretary.

EXECUTIVE COMMITTEE

HON. SAMSON H. FRIENDLY, Chairman.
HON. CYRUS A. DOLPH.
HON. J. C. AINSWORTH.

MEMBERS

NAMES AND ADDRESSES.	TERM EXPIRES
HON. NEHEMIAH L. BUTLER, Dallas	April 15, 1911
HON. JAMES W. HAMILTON, Roseburg	April 1, 1913
HON. CYRUS A. DOLPH, Portland	April 15, 1915
HON. WILLIAM SMITH, Baker City	April 15, 1915
HON. FREDERICK V. HOLMAN, Portland	April 15, 1915
HON. R. S. BEAN, Salem	April 15, 1917
HON. MILTON A. MILLER, Lebanon	April 15, 1917
HON SAMSON H. FRIENDLY, Eugene	April 15, 1919
HON. J. C. AINSWORTH, Portland	April 15, 1921

ADMINISTRATIVE OFFICERS

THE UNIVERSITY

P. L. CAMPBELL, A. B. ..... President
A. R. TIFFANY, A. B. ..... Registrar
LOUIS H. JOHNSON ..... Financial Agent
M. H. DOUGLAS, M. A. ..... Librarian

THE COLLEGES AND SCHOOLS

FREDERICK GEORGE YOUNG, A. B., Dean of Graduate School
JOHN STRAUB, A. M.,
Dean of College of Literature, Science, and Arts
EDWARD HIRAM McALISTER, A. M.,
Dean of College of Engineering
SIMEON EDWARD JOSEPHI, M. D., Dean of School of Medicine
C. U. GANTENBEIN, LL. B., ... Dean of School of Law
IRVING MACKAY GLEN, A. M., ... Dean of School of Music
LUELLA CLAY CARSON, A. M., ... Dean of Women

OFFICERS OF INSTRUCTION

THE FACULTY *

P. L. CAMPBELL, A. B., 538 E. 13th St. EUGENE
President of the University.
A. B. Harvard University, 1886.

PERCY PAGET ADAMS, B. S., Mill St. EUGENE
Assistant Professor of Civil Engineering.
B. A. University of Oregon, 1901; B. S., 1902.

LEWIS R. ALDERMAN, B. A. EUGENE
Professor of Education and Director Correspondence School.
B. A. University of Oregon, 1898.

CLYDE B. AITCHISON, B. S. PORTLAND
Lecturer on Water Rights.

FRANK L. BARKER, E. M. EUGENE
Professor of Mining and Metallurgy.
B. A. Colgate University, 1898.
E. M. Colorado School of Mines, 1906.

JAMES DUFF BARNETT, A. B. (Emporia) EUGENE
Professor of Political Science.
Ph. D. (Wisconsin).

BENJAMIN B. BEEKMAN, A. B., LL. B. PORTLAND
Lecturer on Agency.

JAMES FRANCIS BELL, M. D., L. R. C. P., (London) PORTLAND
Professor of Theory and Practice of Medicine.

OTTO SALY BINSWANGER, Ph. D., M. D. PORTLAND
Professor of Chemistry and Toxicology.

JOHN FREEMAN BOVARD, M. S. EUGENE
Assistant Professor of Biology.
B. S. University of California, 1903; M. S., 1906.

*With the exception of the President the Faculty are arranged in alphabetical order.

WILLIAM PINGRY BOYNTON, Ph. D., 135 E. 11th St. EUGENE
Professor of Physics.

A. B. Dartmouth College, 1890; A. M., 1893; Ph. D. Clark University, 1897; Professor of Physics and Acting Professor of Latin, University of Southern California, 1890-93; Assistant in Physics and Graduate Scholar, Dartmouth College, 1892-94; Scholar and Fellow in Physics, Clark University, 1894-97; Instructor in Physics, University of California, 1897-1901; Professor of Science and Mathematics, and Dean of the Faculty, California College, 1901-03.

EARL C. BRONAUGH, A. M., LL. B. PORTLAND
Lecturer on Domestic Relations.
Judge of the Circuit Court of the State of Oregon.

LUELLA CLAY CÁRSON, A. M., 289 E. 9th St. EUGENE
Dean of Women and Professor of Rhetoric and American Literature.

A. M. University of Oregon and Pacific University.

FRANCIS D. CHAMBERLAIN, A. B., LL. B. PORTLAND
Lecturer on Corporations and Partnership.

ROBERT CARLTON CLARK, Ph. D., 387 East 11th St. EUGENE
Professor of History.

B. A., M. A. University of Texas, 1901; Ph. D. University of Wisconsin, 1905.

JOHN B. CLELAND, LL. B. PORTLAND
Lecturer on Sales and Non-Contract Law.
Judge of the Circuit Court of the State of Oregon.

TIMOTHY CLORAN, Ph. D., 717 Hilyard St. EUGENE

A. B. Western Reserve University, 1891; Instructor in Latin and Greek, Geneva High School, 1891-93; Professor of Greek, German and French, Shurtleff College, 1893-97; Student, Universities of Berlin and Strassburg, 1897-99; Ph. D. University of Strassburg, 1901. Professor of Modern Languages, University of Idaho, 1899-00; Adjunct Professor of Romance Languages, Vanderbilt University, 1900-04; Student, University of Paris, 1904-05; Student, University of Madrid, 1905-06.

RICHARD HAROLD DEARBORN, M. E., 341 E. 9th St. EUGENE
Professor of Electrical and Mechanical Engineering.
A. B. Portland University, 1895; M. E. Cornell University, 1900.

EDGAR EZEKIEL DECOU, M. S., 719 Mill St. EUGENE
Professor of Mathematics.
B. S. University of Wisconsin, 1894; Principal High School, Evansville, Wisconsin, 1894-96; Graduate Student University of Chicago, 1896-97; M. S. University of Chicago, 1897; Professor of Mathematics, Bethel College, Russellville, Kentucky, 1897-99; Graduate Student University of Chicago, 1899-00; University Scholar Yale University, 1900-01; Professor of Mathematics, Bethel College, Russellville, Kentucky, 1901-02; Acting President, Bethel College, 1902.

FRED GOODRICH FRINK, M. S., 644 Hilyard St. EUGENE
Professor of Railway Engineering.
B. S. in Civil Engineering, University of Michigan; M. S. University of Chicago; Special Student Sanitary Engineering, Massachusetts Institute of Technology; Instructor in Civil Engineering, University of Michigan; Assistant Professor of Civil Engineering, University of Illinois; Professor of Civil Engineering, University of Idaho; Professor of Railway Engineering, University of Oregon, 1908—.

FREDERIC STANLEY DUNN, M. A., 856 Alder St. EUGENE
Professor of Latin Language and Literature.
B. A. University of Oregon, 1892; B. A. Harvard University, 1894; M. A. University of Oregon, 1899; M. A. Harvard University, 1903.

WALTER H. EVANS, B. S., LL. B. PORTLAND
Secretary School of Law.
Assistant United States Attorney.

CALVIN U. GANTENBEIN, LL. B. PORTLAND
Dean of the School of Law, and Professor of Criminal Law and Evidence.
Judge of the Circuit Court of the State of Oregon.

ANDREW JACKSON GIESY, M. D. PORTLAND
Professor of Clinical Gynæcology.

WILLIAM BALL GILBERT, LL. D. PORTLAND
Lecturer on Constitutional Law.
Judge of the United States Circuit Court of Appeals.

IRVING MACKAY GLEN, M. A., 254 E. 9th St. EUGENE
Professor of English Language and Early English Literature and Dean of the Department of Music.
Graduate California School of Elocution and Oratory, 1889; Graduate California State Normal School, San Jose, 1890; Graduate Elwood Conservatory of Music, 1890; A. B. University of Oregon, 1894; Graduate Student at Johns Hopkins University, 1894-96; M. A. University of Oregon, 1897.

THOMAS G. GREENE, LL. B. PORTLAND
Lecturer on Bankruptcy.

THOMAS G. HAILEY, LL. B. PORTLAND
Lecturer on Brief-Making and Supreme Court Practice.
Justice of the Supreme Court of the State of Oregon.

BENJAMIN JAMES HAWTHORNE, M. A., 344 Lawrence St. EUGENE
Professor of Psychology.
M. A. Randolph Macon College.

WILLIAM L. HAYWARD EUGENE
Director Men's Gymnasium.

HERBERT CROMBIE HOWE, A. B., 908 Alder St. EUGENE
Professor of Modern English Literature.
Cornell University, 1893; Graduate Scholar Cornell University, 1893-94, 1894-95.

HENRY E. JONES, M. D. PORTLAND
Emeritus Professor of Clinical Gynæcology.

WILLIAM JONES, M. D. PORTLAND
Emeritus Professor of Clinical Surgery.

SIMEON EDWARD JOSEPHI, M. D. PORTLAND
Dean of School of Medicine and Professor of Obstetrics and Nervous Diseases.

OTTO J. KRAEMER, LL. B. PORTLAND
Lecturer on Justice's Court Practice.

EDMUND JOHN LABBE, M. D. PORTLAND
Professor of General and Descriptive Anatomy.

ALBERT EDWARD MACKAY, M. D. PORTLAND
Professor of Diseases of Genito-Urinary Organs.

KENNETH ALEXANDER J. MACKENZIE, M. D., C. M., L. R. C. P. & L. R. C. S., Edinburg PORTLAND
Professor of Operative Surgery.

EDWARD HIRAM McALISTER, A. M., 322 Pearl St. EUGENE
Dean of the College of Engineering and Professor of Applied Mathematics and Civil Engineering.
A. B. University of Oregon, 1890; A. M. University of Oregon, 1893.

WALLACE McCAMANT, A. B. PORTLAND
Lecturer on Bailments and Carriers.

RICHARD W. MONTAGUE, Ph. B., LL. B. PORTLAND
Lecturer on Equity.

ROBERT G. MORROW, Ph. B. PORTLAND
Lecturer on Brief Making and Supreme Court Practice.
Judge of the Circuit Court of the State of Oregon.

HENRY H. NORTHUP, LL. B., Columbia University PORTLAND
Lecturer on Pleading, Practice and Probate Law.

RICHARD NUNN, A. B., B. Ch., M. D. PORTLAND
Professor of Diseases of Eye, Ear, Nose and Throat.

THOMAS O'DAY, LL. B. PORTLAND
Lecturer on Bailments and Carriers.
Judge of the Circuit Court of the State of Oregon.

MARTIN L. PIPES, A. B. PORTLAND
Lecturer on Contracts.

HARRISON G. PLATT, A. B. PORTLAND
Lecturer on Negotiable Instruments.

JOSEPH SCHAFER, Ph. D., 588 E. 13th St. EUGENE
Professor of History.
B. L. University of Wisconsin, 1894; Instructor State Normal School, Valley City, North Dakota, 1894-98; Graduate Student, Chicago University, Summer, 1895; M. L. University of Wisconsin, 1899; Fellow University of Wisconsin, 1900; Ph. D. University of Wisconsin, 1906.

FRIEDRICH GEORG G. SCHMIDT, Ph. D., 307 E. 14th St. EUGENE
Professor of the German Language and Literature.
Student at the University of Erlangen, 1888-90; Student at Johns Hopkins University, 1893-96; University Scholar, 1894-95; Fellow, 1895-96, and Ph. D., 1896; Acting Professor of German Cornell College, Iowa, 1896-97.

HENRY DAVIDSON SHELDON, Ph. D., 1029 S. Alder St. EUGENE
Professor of Philosophy and Education.
A. B. Stanford University, 1896; A. M. Stanford University, 1897; Instructor in Pedagogy, Stanford University, 1896-97; Lecturer in Education, Clark University Summer School, 1898-99; Ph. D. Clark University, 1900.

FREDERICK LAFAYETTE SHINN, Ph. D., 386 E. 11th St. EUGENE
Assistant Professor of Chemistry.
A. B. Indiana University, 1901; A. M., 1902; Ph. D. University of Wisconsin, 1906; Scholar, Yale University, 1902; Graduate Student and Assistant, University of Wisconsin, 1903-05; Assistant Professor of Chemistry to fill a temporary vacancy, Indiana University, February to June, 1905; Instructor in Physical and Electro-Chemistry, University of Wisconsin, 1905-07.

ORIN FLETCHER STAFFORD, A. B. EUGENE
Professor of Chemistry.
A. B. University of Kansas.

GEORGE BURNSIDE STORY, M. D. PORTLAND
Professor of Physiology.

JOHN STRAUB, A. M., 325 E. 11th St. EUGENE
Dean of the College of Literature, Science and the Arts, and Professor of Greek Language and Literature.
A. B. Mercersburg College, 1876; A. M. Mercersburg College, 1879.

ALBERT RADDIN SWEETSER, A. M., S. Alder St. EUGENE
Professor of Biology.
A. B. Wesleyan University, 1884; A. M. Wesleyan University, 1887; Instructor in Cryptogamic Botany, Radcliffe College, 1895-97.

ERNEST FANNING TUCKER, A. B., M. D. PORTLAND
Professor of Gynæcology.

ARTHUR L. VEAZIE, A. M., LL. B. PORTLAND
Lecturer on Real Property.

GEORGE MILTON WELLS, M. D. PORTLAND
Professor of Pediatrics.

GEORGE FLANDERS WILSON, M. D. PORTLAND
Professor of Principles and Practice of Surgery and Clinical Surgery.

CHARLES E. WOLVERTON, A. B., LL. D. PORTLAND
Lecturer on Federal Procedure.
Judge of the United States District Court.

ROBERT CLARK YENNEY, M. D. PORTLAND
Professor of Histology and Pathology.

FREDERICK GEORGE YOUNG, A. B., 301 E. 9th St. EUGENE
Dean of Graduate School and Professor of Economics and Sociology.
Johns Hopkins University, 1886; University Scholar, Johns Hopkins University, 1886-87.

JAMES CULLEN ZAN, M. D. PORTLAND
Professor of Materia Medica and Therapeutics.

INSTRUCTORS AND ASSISTANT INSTRUCTORS

JESSE H. BOND — EUGENE
Assistant in Wood Shops.

JULIA BURGESS, M. A. — EUGENE
Instructor in English.
B. A. Wellesley College; M. A. Radcliffe College (Harvard University).

CHARLES W. CONVERSE, M. A. — EUGENE
Instructor in Mechanical Engineering.
A. B. University of Oregon, 1902; M. A. 1905.

MABEL COOPER, B. A. — EUGENE
Assistant in Correspondence School.
B. A. University of Oregon, 1907.

JAMES CURRIE, M. A. — EUGENE
Instructor in Chemistry.
B. A. Indiana University; M. A., Indiana University, 1907.

SAMUEL ELY ELIOT, B. A. — EUGENE
Instructor in Psychology.
A. B. Washington University, 1905; B. A. Oxford, 1908.

JAMES HENRY GILBERT, Ph. D. — EUGENE
Instructor in Economics and Political Science.
B. A. University of Oregon, 1903; Ph. D. Columbia University, 1907.

MOZELLE HAIR, B. A. — EUGENE
Assistant Instructor Modern English Literature.
B. A. University of Oregon, 1908.

ANDREW W. JACKSON, B. A. — EUGENE
Assistant Instructor in Physics.
B. A. University of Oregon, 1907.

MARY E. KENT, B. A. — EUGENE
Assistant Instructor in Biology.
B. A. University of Oregon, 1906.

HUGO WILHELM KOEHLER, B. A. EUGENE
Instructor in German.
Student at Syracuse University, 1899-1903; Student at Leipzig University, 1903-04; Instructor of German, Cascadilla School, Ithaca, N. Y., 1904-05; Instructor of German and Student in the Graduate College, State University of Iowa, 1905-07; University of Oregon, 1908—.

HEMAN BURR LEONARD, Ph. D., 659 Patterson St. EUGENE
Instructor in Mathematics.
B. S. (E. E.) Michigan, 1895; Ph. D. University of Colorado, 1906.

CARL A. McCLAIN, B. S. EUGENE
Instructor in Civil Engineering.
B. S. University of Oregon, 1906.

ELLEN M. PENNELL, 333 E. 13th St. EUGENE
Instructor in English and Assistant Dean of Women.

MARY HALLOWELL PERKINS, M. A. EUGENE
Instructor in English.
B. A. Bates College; M. A. Radcliffe College.

CHARLES ROY REID, B. S. EUGENE
Instructor in Civil Engineering and Physics.
B. S. University of Oregon, 1906.

MIRIAM VAN WATERS, B. A. EUGENE
Assistant in Correspondence School.
B. A. University of Oregon, 1908.

ANGELINE WILLIAMS, B. A. EUGENE
Assistant Instructor in English Literature.
B. A. University of Oregon, 1907.

SPECIAL LECTURERS, DEPARTMENT OF MEDICINE, PORTLAND

EDWARD PAYSON GEARY, M. D., Lecturer on Physical Diagnosis.

CORTES HOLIDAY WHEELER, M. D., Lecturer on Hygiene.

JAMES OSCAR WILEY, M. D., Lecturer on Physical Diagnosis.

J. ALLEN GILBERT, Ph. D., M. D., Lecturer on Clinical Medicine.

RALPH CHARLES MATSON, M. D., Lecturer on Bacteriology.

RAY WILLIAM MATSON, M. D., Lecturer on Histology.

LUTHER H. HAMILTON, M. D., Lecturer on Electro-Therapeutics.

FRANK M. TAYLOR, A. B., M. D., Lecturer on Dietetics, etc..

J. C. ELLIOTT KING, A. B., M. D., Lecturer on Dermatology.

OTIS BUCKMINSTER WIGHT, A. B., M. D., Lecturer on Clinical Surgery.

WILLIAM HOUSE, M. D., Lecturer on Medical Jurisprudence.

ORVILLE ARTHUR THORNTON, B. S., M. D., Lecturer on Osteology and Syndesmology.

GEORGE F. KOEHLER, M. D., Lecturer on Diseases of Stomach and Intestines. (Adjunct to Medicine.)

ROBERT L. GILLESPIE, M. D., Clinical Lecturer on Insanity, etc.

ALVIN W. BAIRD, M. D., Lecturer on Operative Surgery.

LABORATORY DEMONSTRATORS

LOUIS ARTHUR SHANE, M. D., Demonstrator of Anatomy.

PERCY JOSEPH WILEY, M. D., Assistant Demonstrator of Anatomy.

THEODORE FESSLER, M. D., Laboratory Demonstrator of Chemistry.

C. J. McCUSKER, M. D., Laboratory Demonstrator of Physiology.

GUY H. OSTRANDER, B. S., M. D., Laboratory Demonstrator of Pathology.

MARIUS BRECKENRIDGE MARCELLUS, B. S., M. D., Assistant Laboratory Demonstrator of Pathology.

WILLIAM A. SHEA, M. D., Laboratory Demonstrator of Therapeutics.

GEORGE ANDREW CATHEY, Laboratory Demonstrator of Bacteriology.

CLINICAL ASSISTANTS

CONDON C. McCORNACK, A. B., M. D.
GEORGE SHATTUCK WHITESIDE, M. D.
GEORGE F. KOEHLER, M. D.
C. J. McCUSKER, M. D.
LOUIS I. WOLF, M. D.

STAFF OF THE SCHOOL OF MUSIC

IRVING M. GLEN, M. A. — EUGENE
Dean of the School of Music.

MARY MORGAN — EUGENE
Instructor in Piano and Theory.

EVA I. STINSON, Mus. B. — EUGENE
Instructor in Singing.

GRACE E. CAMPBELL — EUGENE
Instructor in Singing.

LE ROY GESNER — EUGENE
Instructor in Violin.

ALBERTA CAMPBELL — EUGENE
Assistant Instructor in Piano.

INA WATKINS — EUGENE
Assistant in Piano.

ETHEL EVANS, Mus. B. — EUGENE
Assistant in Piano.

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Assistant in Piano.

LIBRARY STAFF

M. H. DOUGLAS, M. A. — LIBRARIAN
CAMILLA LEACH — REFERENCE LIBRARIAN
BEATRICE J. BARKER, Ph. B. — CATALOGUER
RUTH DUNIWAY — ASSISTANT
JAMES NEILL — ASSISTANT

COMMITTEES OF THE FACULTY *

THE UNIVERSITY COUNCIL—Consisting of the President of the University and all the full professors and assistant professors of departments at Eugene, who together constitute the legal Faculty of the University.

THE ACADEMIC COUNCIL—The Executive Committee of the University Council—the President, Professors Young, Straub, McAlister, Carson and Stafford.

THE GRADUATE COUNCIL—Professors Young, McAlister, Schmidt, Glen and Howe.

UNIVERSITY EXTENSION—Professors Sheldon, Dunn, Schmidt, Howe and Stafford.

ATHLETICS—Professors Hawthorne, Dearborn, Young, Glen and Mr. Hayward.

CREDENTIALS—Professors Sheldon, Young and Schafer.

APPOINTMENTS—Professors Sheldon, Sweetser, Carson, Hawthorne and Straub.

EXAMINATIONS AND SENIOR CREDITS—Professors Hawthorne, Glen and McAlister.

SPECIAL STUDENTS—Professors DeCou, Carson, Young, and the President.

LIBRARY—Hon. R. S. Bean, President of the Board of Regents, and the Librarian.

ADVISORY—The President, Professors Young, McAlister, Straub and Schafer.

ADVANCED STANDING—Professors Stafford, McAlister and Dunn.

STUDENT AFFAIRS—Professors Hawthorne, Glen, Carson and Dearborn.

EXTRA HOURS—Professors DeCou, Straub and Dearborn.

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*The President of the University is ex-officio a member of all committees.

THE UNIVERSITY OF OREGON

INTRODUCTION

HISTORICAL SKETCH.

The University of Oregon was established by act of the State Legislature October 19, 1872, and located at Eugene. Deady Hall, the first University building, was erected by the citizens of Lane County, and presented to the Board of Regents in July, 1876. In September of the same year, the University opened its doors for the reception of students. The first class was graduated in June, 1878.

The preamble of the act of October 21, 1876, entitled, "An Act to provide for the support and government of the University of Oregon," is as follows:

"WHEREAS, by an act of the Legislative Assembly, approved October 19, 1872, it was provided that, in order to devote to the purposes of education the seventy-two sections of land donated to the State for the use and support of a State University by the act of Congress of February 14, 1859, a State University, having for its design to provide instruction and complete education in all the departments of science, literature, professional pursuits and general education, be created and permanently located at Eugene; *provided*, that the Union University Association of Eugene should, on or before January 1, 1874, secure a site for the same at or in the vicinity of Eugene, and erect thereon and furnish a building of not less than fifty thousand dollars, for the use of said University, on a plan to be approved, and after the erection of the same, to be adopted, by the board of commissioners for the sale and management of the school and university lands, and for the investment of the funds arising therefrom; and,

"WHEREAS, said University Association of Eugene have duly provided a site for said University, and erected thereon, on a plan first approved by said board of commissioners, a building for the use thereof, as provided in said act of October 19, 1872, which site and building was by said board of commissioners, in July, 1876, duly accepted, and has since been duly conveyed by said University Association to the board of directors of said University; and,

"WHEREAS, the directors of the University aforesaid did, in pursuance of an act of October 19, 1872, on August 9, 1876,

elect and appoint a president and two professors of said University and also a principal and assistant teacher of the preparatory department therein, and did also 'fix the salaries of said president, professors and teachers, and prescribe the tenure of their offices, the beginning and end of the school year of said University, the studies to be pursued thereat, the admission fees and rates of tuition, together with the qualifications for admission therein;' therefore, be it enacted," etc.

The equipment of the University was at first very small, and the courses of instruction were limited practically to literary lines. The University grew rapidly, and the demand for a broader curriculum was met by the addition of engineering, scientific and technical courses. The Law School was established in 1884, and the Medical School in 1887. With the growth and development of the State, the University has increased in numbers and financial resources. Buildings have been erected, new departments added, and a large equipment installed.

The most important single gift to the University was that of $50,000 made by Henry Villard in 1883 for general endowment.

During the early years of the institution, the only high schools in the State were located in two or three of the larger cities, and it was necessary for the University to offer academic courses in order that students graduating from the schools in smaller towns might continue their work by coming directly to the University. As the high school system of the State developed, it became possible to discontinue the first year of the academy course; a little later the second year was dropped; and finally in 1904 the academy was entirely abolished.

A similar growth may be seen in the evolution of the present course of study. When the University first opened its doors in 1876, the work of the different courses was practically all required. After a few years, options were allowed in the choice of language groups, and substitutions were permitted for some of the technical requirements. Later a great number of possible combinations of required courses were offered, with a few elective hours. Then came the group system with the work of the first two years required, and the greater portion of the last two years elective, except for a major elective requirement.

Finally, during the year 1904-05, the University adopted practically a free elective system of undergraduate study, with a major requirement not to exceed one-third of the one hundred

and twenty semester hours necessary for graduation. The only specific requirements, besides the major, are four semester hours of gymnasium work, and two year-courses in some language other than English. It is found that by means of the major requirement, the University is able to give a wise direction to the student's chosen line of work. On the other hand, the limit placed on the amount of required work encourages the enlargement of the student's field of study, and makes possible a broad, general culture.

THE UNIVERSITY AND THE STATE.

The aim of the University of Oregon in its relation to the educational system of the State is two-fold: First, to supplement the work of the high schools with a four years' university course. Second, to encourage graduate study. In the State's public school system, the University sustains a similar relation to the high schools that the high schools sustain to the grammar grades. As those who have passed through the grammar grades may continue their studies in the high schools, so those who have completed the full high school course may advance to the opportunities offered by the University. In a word, the University (exclusive of the Graduate School) embraces the thirteenth, fourteenth, fifteenth and sixteenth grades of the public school system. It completes the work begun in the grammar schools and continued in the high schools.

While the University furnishes instruction in the various branches requisite for a liberal education, and in the technical branches of engineering, law, medicine and music, it also aims to encourage research work in its departments, and to offer to those who have completed college courses at the University or elsewhere an opportunity to do graduate work along general or special lines.

In addition to its work as a part of the public school system, the University attempts to aid in the State's development by gathering exact and detailed information concerning its industrial resources, and by investigating, through its several departments, such civic and industrial problems as are of special interest to the people of the State.

GOVERNMENT.

The government of the institution rests upon the inherent obligations of students to the University and to the State. The University is maintained at the public expense for the public good. Those who participate in its benefits are expected, as a matter of honor, not only to fulfill the obligations of loyal members of the institution, of the community, and of the commonwealth, but actively to aid in promoting intellectual and moral interests. Every student owes to the public a full equivalent for its expenditure in his behalf, in the form of superior usefulness to it, both while in the institution and afterwards. Students, therefore, cannot claim any exemption from the duties of good citizens and loyal members of the community and of the University; on the contrary, they are under peculiar obligations loyally to fulfill every duty. As members of the institution, they are held responsible for regular attendance and the proper performance of their duties. As members of the community, students are amenable to the law; and, if guilty of its infraction, are liable to a termination of their relations with the University. The University recognizes its civic relations and rests its administration upon civic obligations.

ENVIRONS.

The University of Oregon is located at Eugene, in Lane County, a rapidly growing city of 10,000 people. Eugene is one of the most prosperous towns in Oregon, but above all is a city of homes, with a sincere pride in its reputation as an ideal place in which to live. Many miles of hard-paved streets give it an air of a city of much larger size. It has an excellent system of public schools, with five grade school buildings and a magnificent high school building. The high school has nearly 500 students and is the largest in the State outside of Portland. All the leading denominations are represented by strong churches. The Eugene public library and the city Y. M. C. A. building are centers of interest.

There are no saloons in Eugene or Lane County. Under the Oregon local option law the people of Eugene voted out all saloons four years ago, and the majorities against them have increased at each subsequent election. The whole college and city life is entirely free from the evils of saloons.

BUILDINGS AND GROUNDS.

The University grounds are situated about one mile southeast of the center of the city. Electric cars pass the campus every few minutes, giving easy communication with the business section and other parts of the city. The campus contains 80 acres of land, about evenly divided into two sections by East Thirteenth street. On the north campus are located the main University buildings; on the south campus, the girls' dormitories, the President's house, and the athletic field. The buildings crown a gentle slope. Native and exotic trees and plants are interspersed here and there with rose hedges and flower gardens. The whole is a beautifully kept lawn, with handsome walks and drives, and is one of the beauty spots of the city. The Willamette River flows along its northern border and the snow-covered Three Sisters and the peaks of the Coast Range are in full view.

The following buildings are located on the University grounds:

Deady Hall, a three-story building, was presented to the State by the citizens of Lane County, and was named in honor of Matthew P. Deady, the first president of the Board of Regents. It contains the Biological and Physical laboratories, and the department of Latin, Greek, Romance Languages, German and Modern English Literature.

Villard Hall, erected in 1885, was named in honor of Henry Villard, the greatest individual donor to the University's endowment. It is an imposing cemented brick building, and contains the offices of the President, the Registrar, the Steward, the Assembly Hall of the University, the very valuable Condon geological collection, and the departments of Early English Literature, Geology and Mathematics.

McClure Hall was built in 1900. It is devoted to the departments of Chemistry and Mining, and is admirably adapted to its purpose. It has three floors, with laboratory facilities for 200 students, and contains the latest appliances for research work in all lines of mining and manufacturing chemistry. It has hoods and ventilators for carrying off gases, electric motors for operating machinery, and is modern in every respect. It contains all the departments of Chemistry and Mining. The upper floor for the present is used as class rooms in History, Psychology, and for the Psychological laboratory.

Mechanical Hall, erected in 1901, contains the central heating and lighting plant of the University, and the departments of Electrical and Mechanical Engineering. The shops are run by electricity and are well equipped with tools and machinery.

The Timber Testing Station was established in 1905. The Testing Laboratory is equipped with the latest machines and appliances necessary for testing the strength of timber, stone and metals.

The Girls' Gymnasium is a brick building well fitted with suitable apparatus. A woman director is in charge.

The Men's Dormitory, erected in 1893, is a three-story brick building, equipped with electric lights, steam heat, hot and cold baths, well-furnished parlors and every convenience for the comfort of its guests.

The Library Building, completed in June, 1907, is a two-story with basement building of buff pressed brick. It is located south of Deady Hall near Thirteenth street. The first floor contains the University library, a general reading room, a general reference room, a consultation room for faculty and students, and the offices of the Librarian and the Cataloguer. A part of the basement and second floor is used for class rooms.

Mary Spiller Hall, erected in 1907, will accommodate about 20 girls. It is a two-story and basement building, modern in all respects, well heated and lighted and comfortably fitted for living. A second building of similar construction and size will be ready for occupancy by the opening of the fall term of 1909-10. Cost of board and room in both halls is $4.50 and $5 per week.

Engineering Hall was completed in February, 1909. It is a handsome two-story building, located on University avenue, directly east of Mechanical Hall, and was designed especially for engineering instruction. It houses all of the departments of Civil Engineering. The general University repair shops (plumbing, carpenter and paint) are located in the basement.

The Men's Gymnasium. A new gymnasium for men is in process of erection and will be ready for use by October 1, 1909. It is being equipped with the best apparatus, an indoor running track, a swimming pool, shower baths, lockers, etc.

The athletic field has a four-lap track surrounding a well-constructed football field. The grandstand and the bleachers will seat 2,000 people.

THE UNIVERSITY LIBRARY

STAFF.

M. H. DOUGLAS, M. A. - - - - -	Librarian
CAMILLA LEACH - - - - - -	Reference Librarian
BEATRICE J. BARKER, Ph. B. - - - -	Cataloguer
RUTH DUNIWAY - - - - -	Assistant
JAMES K. NEILL - - - - - -	Assistant

SUPPORT.

The University library is a well selected and rapidly growing collection of books, now numbering something more than 20,000 volumes. The present annual appropriation for the purchase of books and periodicals and for binding, is $10,000. The expenditure of this amount each year for the development of library resources has been made possible by the recently increased appropriation of the State for the support of the University. In previous years the principal fund regularly available for the purchase of books was $400 a year from the income of endowment given to the University by the late Henry Villard. Additional sums were appropriated for books from time to time, $5,000 being expended in 1906 for increasing the library, but not until the past year has it been possible for the Board of Regents to appropriate a substantial, definite annual fund for the maintenance and upbuilding of the library. The first annual appropriation of $10,000 became available during the summer of 1908 and during the past eight months the number of bound volumes added to the library was 3,369.

CONTENTS.

The library is supplied with the best general and special reference books; the files of the principal American and English periodicals of general interest are being secured, and purchases are also being made of the most needed sets of scientific and learned societies and other valuable works, both American and

foreign. Betwen 200 and 300 periodicals are currently received, besides many of the daily and weekly newspapers of the State. The library is a depository for the public documents published by the United States Government.

PLAN.

The present annual appropriation for books, besides making it possible to secure those of which there is most pressing need, gives assurance that there will be built up at the University an exceedingly well equipped library for undergraduate work and for general reference purposes, and that provision will also be made for literature necessary for graduate research. At present special attention is being given to securing some of the reference books that have been so much needed; to completing files of the most useful periodicals and continuations, both those of general interest and those needed for departmental purposes; to supplying the various departments with books most needed for work being done; and, in a general way, to building up a well rounded collection of books for working purposes.

HOURS.

The library is open daily from 7:45 A. M. to 12 M., and from 12:30 to 5 and from 7 to 9 P. M., except that it is not open on Friday evenings or on Saturday afternoons or evenings.

ACCESS TO STACKS.

All students have free access to all the books of the library.

LENDING.

Books, other than reference books and those especially reserved for use in the library, may be drawn for a period of two weeks and at the expiration of that time renewed for two weeks more. All persons connected with the University have the privilege of drawing books, and the use of the library for reference purposes is extended to the general public as well.

CLASSIFICATION.

The library is classified according to the Dewey decimal system —the one in most general use in this country, and is catalogued on cards according to the most approved methods.

BUILDING.

The library building was erected in 1907 at a cost, exclusive of furnishings, of about $26,000. Its ground dimensions are 90 by 60 feet and it includes two stories above a high basement, the construction material being of buff pressed brick and stone and the interior wood finish the Oregon fir. On the main floor are the general reading, reference and periodical rooms, stack space for the shelving of the main collection of books, Librarian's room, Cataloguer's room, and a consultation room. In the basement provision is made for unpacking, for the storage of newspapers, public documents, duplicates, etc., and there are also two well lighted rooms now used for recitation purposes, and a seminar room for the department of education. On the second floor are five recitation rooms, a seminar room for the department of Economics, and an exhibition room for the display of art and other special collections. The various recitation rooms will be available for library purposes as future needs develop.

READING ROOM.

The reading room is furnished with handsome oak tables and chairs, with individual table lights and with the necessary provisions for comfortable reading and study. The table space is sufficient to accommodate about 150 readers at a time, and there is room without tables for nearly as many more. In this room are shelved 15,000 volumes and nearly 300 current periodicals.

THE UNIVERSITY MUSEUMS

The University museums are three in number, as follows:

GEOLOGICAL.

The Geological museum occupies a room 40 by 80 feet on the first floor of Villard Hall. It contains:

(*1*) The Condon cabinet, consisting of many thousand specimens and represents the life work of the late Dr. Thomas Condon. The cabinet is especially rich in vertebrate fossils from the John Day Valley, and contains in addition many invertebrate and paleobotanical specimens. This cabinet is the finest collection of paleontological specimens in the Pacific Northwest.

(*2*) A display collection of minerals. This is growing collection of especially fine minerals.

(*3*) A type collection of minerals. A collection of about 1,500 minerals representative of the ordinary occurrence of the different minerals.

(*4*) A type collection of rock. This contains the United States Geological Survey educational series of rocks and many added from various sources, illustrating the rocks of the world.

(*5*) Mineral resources of Oregon. The object of this collection is to illustrate the mineral resources of Oregon. It consists of specimens of ores, building stones and other mineral material of economic importance. The collection is growing and contributions from those engaged in developing the mineral resources are earnestly desired.

(*6*) An ethnological collection of tools and implements used by early man.

In the museum is also a cast of the Willamette meteor, the gift of Mr. E. A. Patullo. The original meteor was found at Oregon City. It is now in the museum of the Smithsonian Institution and is valued at $80,000.

BOTANICAL.

The botanical museum consists of the following: (*1*) The Howell collection, consisting of 10,000 specimens collected for the most part in Oregon, many of which are type specimens; (*2*) the Leiberg collection, presented to the University by Mr. John B. Leiberg in 1908, consisting of 15,000 sheets of specimens, collected principally from Oregon, Washington and Idaho, but including also some from other states. The specimens are for the most part duplicates of others deposited in the National Herbarium at Washington by Mr. Leiberg for the Government while he was in its employ, and are extremely valuable. (*3*) The Cusick collection, consisting of 7,000 specimens of Oregon and other flora. These collections are being constantly added to by gift and exchange. All specimens not already classified are being classified and arranged in cases as rapidly as possible.

ZOOLOGICAL MUSEUM.

The Zoological museum is located on the second floor of Deady Hall, where ample room is given for the exhibition cases. It contains a fine series of mounted and unmounted birds and mammals, to illustrate different groups; a collection of Oregon reptiles, made by Mr. J. R. Wetherbee; a series of fish, mostly salmonidæ from the Columbia River, donated by the United States Government; a collection of food fishes of the Oregon coast, made by Mr. B. J. Bretherton, of Newport, Oregon, and presented to the University.

It is further supplied with an excellent series of invertebrate animals, models of types from France and Germany, and a fine series of botanical models of types of various groups of flowers, and of representatives of insectivorous plants. To this must be added casts of brains and head formations of various races, and a particularly fine series of wax models made from drawings by His in Zeigler's laboratory at Freiburg, illustrating different stages in the development of the human embryo and that of the chick; also a similar series showing the development of amphioxus, different forms or segmentation, etc.

The specimens in the museum which are typical of Oregon fauna are few, and nothing would be appreciated more by the department than the gift of skeletons or skulls of Oregon animals or the skins of Oregon birds.

THE UNIVERSITY LABORATORIES

MINING AND METALLURGY.

The assay laboratory is equipped with furnaces, balances and bins for the course in the fire assay of lead, gold and silver. Due to the absence of a suitable supply of coal in the mining districts of Oregon, gasoline furnaces are in use throughout the State. The University laboratory is equipped with the idea of preparing the student to step into the ordinary assaying office of Oregon and do the work required there. Wet assay methods are given by the department of Chemistry.

The metallurgical laboratory is fitted with crushers, pulverizers and chemical apparatus for testing ores and determining the best methods for treating them on a commercial basis.

The department owns an equipment of mine surveying instruments adequate for instruction in underground and United States deputy mineral land surveying. The latest addition to this equipment is an Ainsworth light mountain transit with interchangeable auxiliary top and side telescope.

The fees for laboratory are each semester, $15 for assaying, $10 for metallurgical laboratory, $2.50 for mine surveying.

PETROLOGY.

A working collection of hand specimens of rock is examined and identified by each student. The department also maintains apparatus for grinding their sections of rocks and is equipped with petrographical microscopes. The laboratory is especially well equipped for studying the paleontology of Oregon and is rapidly adding a complete working collection of the fossils of all geologic ages.

Laboratory fee for the year's course in mineralogy and crystallography is $10.

GEOLOGY.

Mineralogy. The laboratory is equipped with specimens of minerals. During the course in mineralogy each student is required to identify about 1,000 different specimens.

ELECTRICAL ENGINEERING.

The Electrical laboratory occupies one-half of the first floor of Mechanical Hall, adjoining the University power plant. Electrical power is available from three sources: (1) three phase alternating current from city service; (2) direct current from a 25 K. W. motor generator set, and (3) direct current from two 10 K. W. compound generators driven from a Russell engine. Other sources of power supply are a 10 H. P. Nagle engine and a 5 H. P. Alamo gasoline engine.

The electrical equipment consists of at least one each of the following pieces of standard apparatus: Series, shunt, and compound direct current generators and motors; alternating current generators of single phase, two phase, and three phase windings, arranged for parallel operation; alternating current motors of the induction type, with squirrel cage, internal resistance and external resistance rotors, and synchronous motors; frequency changer; synchronous converter for three phase or six phase operation; transformers of various sizes for one, two, three and six phase combinations of alternating current. Auxiliaries consist of one two-panel slate switchboard with instruments, generator and feeder switches; wood skeleton switchboards for flexible wiring; lamp bank of 200 lamps arranged for 110 or 220 volt direct current, single or three phase alternating current load; resistances; choke coils; arc lamps, open and enclosed; circuit breakers; switches, etc. Instruments include frequency indicator; synchroscope; direct current, and single and polyphase watt-hour meters; indicating watt-meters, ammeters, and voltmeters of the Weston, American and Thompson types for measurements up to 30 K. W. Contemplated additions for 1909 and 1910 include storage batteries, interpole variable speed motor, constant current transformer, mercury arc rectifier, various types of arc lamps, and recording instruments.

CIVIL ENGINEERING.

The drafting rooms comprise two rooms on the second floor of the new Engineering Hall, fitted up with good, substantial tables, stools, filing cases, etc. One room, 42x47 feet, used for students in Drawing and Architecture, will accommodate 120

students. The other room, 22x30 feet, accommodates 40 students and is used for advanced classes in drafting.

The blue print room adjoining the drafting room is equipped with a darkroom for storing and cutting sensitized paper, with printing frames and with a large sink and rack for washing and drying prints.

A room on the first floor is fitted up with special lockers in which is kept the surveying equipment, each locker containing a complete party outfit for plane, topographic and railroad surveying. The equipment includes one 7-inch Fauth & Co. theodolite reading to ten seconds; two Berger & Sons' 4-inch theodolites; one Berger & Sons' complete mountain transit; one Fauth & Co. mountain transit with Saegmuller solar attachment; two Wissler transits, one with Burt solar attachments; one Heller & Brightly transit; one Gurley solar compass; one Gurley engineer's compass; one Gurley surveyor's compass; one Gurley plane table; one Gurley 20-inch wye level; one Berger & Sons' dumpy level; one Wissler dumpy level, together with rods, poles, tapes and pins necessary for complete party outfits. In addition to these there is a good equipment of hand instruments, such as aneroids, hand levels, clinometers, a sextant base line measuring apparatus; level trier, and office equipment, which includes a precision pantagraph, Colby protractor, parallel ruler, steel straight-edges, and a set of railroad curves, for use in plane, topographic, and railroad surveying.

On the first floor of the building is located also the laboratory for cement testing, the equipment for which includes one Fairbanks' standand briquette machine, steaming and baking ovens, moist closet, Vicat needles, Gilmour's needles, specific gravity apparatus, balances, moulds, sieves, graduates, etc., necessary for all standard tests of hydraulic cement.

The apparatus for testing structural materials other than cement mortars occupies a separate building 30x40 feet, and consists of one Olsen's 200,000-pound Universal testing machine, one Olsen's 30,000-pound Universal testing machine, extensometers, deflexometers, calipers, scales, and other small accessories. In addition to these, the building contains a combination rip and cut-off saw, and a pony planer for the preparation of specimens. The machinery in this laboratory is driven by a 20-horsepower individual electric motor.

CHEMISTRY.

The chemical laboratories are located in McClure Hall, a building especially designed to house the chemistry department. All of the first floor and portions of the basement and second floor are devoted to chemistry. In the basement is the beginner's laboratory, which will accommodate 100 students. This laboratory, at present, is used also by the students in analytical chemistry. The desks are provided with water, gas and electricity. On one side is a bank of hoods with a very efficient draught, operated by an electrically driven fan. The hoods are supplied with water, gas, steam, waste and hydrogen sulphide connections. At each end of the room are large drying ovens for drying precipitates, also blast lamps supplied with compressed air. One of the hoods is provided with an electrically heated evaporating plate. Immediately adjacent to the laboratory is the weighing room, containing six balances for the use of students in quantatitive analysis; also balances for the use of beginners.

On the first floor is the laboratory for organic chemistry with 64 lockers and equipped in all respects as the one just described. Opening from this room are the office and the instructor's private laboratory. Adjoining the organic laboratory is the supply room, from which apparatus and chemicals are dispensed to the students. Across the hall is the lecture room, a well lighted, comfortable room, with inclined floor, having a seating capacity of about 120. It has modern equipment throughout. Here also are cases containing a very complete collection of organic and inorganic chemical specimens, for illustrating the class work. Just back of the lecture room is the "preparation" room.

On the third floor is an office room, and adjacent to it, a large laboratory, reserved for special and research work, fully equipped as are the others.

Distilled water is supplied to all laboratories through block tin pipes.

All heavy and inflammable chemicals are stored in an annex adjacent to the main building.

The storeroom is kept well supplied with apparatus and chemicals to meet the requirements of all the usual laboratory courses and provide facilities for original investigation. The books and the periodicals belonging to the department are, at present,

kept in the main office room, which is used also as a reading room. Students are encouraged to make free use of the facilities which it offers. Large additions to the list of chemical periodicals are being made, which will greatly increase the attractiveness and usefulness of the chemical library.

PSYCHOLOGY.

The Psychological laboratory occupies two large rooms on the second floor of McClure Hall for lectures and class demonstrations, and for laboratory experiments and original research work. There is also an additional small room for storing apparatus. The rooms are favorably located for experimental work—on the north side of the building, in the second story, having a steady light, and away from noise and interruption. The laboratory is well supplied with all necessary tables, stands, etc., and is equipped with a large amount of apparatus for experimental purposes.

PHYSICS.

The Physical laboratories are located in the basement and first floor of Deady Hall. The laboratories for elementary and general work are located on the first floor, and furnish accommodations for workers in sections of 24. There is a very complete collection of apparatus for elementary work, available to those who are preparing to teach in the high schools. The additions made in recent years as a result of increased appropriations have been almost entirely in pieces of high grade, of the most substantial and workmanlike character, suited for exact quantitative work, and are well distributed among the various portions of the science. The equipment is supplemented by the collection of lecture-room apparatus, which is especially rich in the departments of light, electricity and magnetism. Among the more important pieces may be mentioned apparatus for the study of accelerated motion, of harmonic motion, and of central forces; thermometers of a wide range of sensitiveness, calorimeters for precision work, a combustion calorimeter, and an apparatus for determining the mechanical equivalent of heat; lenses, laboratory telescopes, spectroscopes, spectrometers and an unusual collection of prisms and diffraction gratings, two very excellent photometers, polarimeter, and a Michelson interferometer; an exceedingly good

collection of galvanometers, resistance boxes, ammeters and voltmeters, and a large electro-magnet.

The special laboratory for electrical measurements is located in the basement, and is provided with concrete piers for apparatus requiring unusual stability, and with storage battery, 110 volt direct and alternating current, and a system of distributing circuits. The laboratory is equipped with apparatus of the highest grade, and of considerable variety. The equipment includes resistance boxes and resistance standards from the Leeds & Northrup Co., Hartmann & Braun, and O. Wolff, ranging from a standard 1-100 ohm to 100,000 ohms, a Kelvin bridge for measuring resistances from 1 ohm to 1-1,000,000 ohm, a high potential storage battery of 2,000 cells capable of furnishing 4,000 volts, a Leeds & Northrup potentiometer, a large collection of galvanometers, portable and reflecting, suited for a wide range of work, ammeters and voltmeters from the Weston Electrical Instrument Co. and the American Instrument Co., both for direct and alternating currents, Siemens and absolute dynamometers, standards of self and mutual-inductance, condensers, both of mica and of paper; standardized incandescent lamps, and the usual accessories of switches, commutators and electric motors.

BOTANY.

The Botanical department occupies parts of the third and fourth floors of Deady Hall. The large lecture room and laboratory for the general Botany classes has the regular equipment of work tables, lockers, and compound microscopes as well as provision for the displaying of stereoptican illustrations and charts. This, as are all the other rooms, is furnished with gas and lighted with electricity. The department possesses a fine series of botanical models of flower types and insectivorous plants. The supply of preserved material is constantly being added to and is fairly representative of the various plant groups. Each student is expected to provide himself with dissecting set and drawing materials, but the laboratory is prepared to furnish the necessary microscopical slides, reagents, and glassware.

Half of the fourth floor is devoted to the Herbarium and Bacteriological rooms. Mr. Thomas Howell has donated his large herbarium, containing many type specimens, to the University. This, together with Mr. Leiberg's gift of 15,000 specimens last

year, is available for students in Systematic Botany. Facilities are provided for the study and preservation of local material and for the cataloguing of plants sent from various parts of the State, and the department will be glad to name any specimen that may be sent to the herbarium for determination. The Bacteriological laboratory is well equipped for work with its gas-fitted work tables and lockers combined, its autoclave, steam and hot air sterilizers, incubator, hot water heater and compound microscopes, with oil immersion lenses.

ZOOLOGY.

The Zoological laboratories are situated in Deady Hall. The laboratory on the third floor is used for General Zoology, Histology and Embryology, and is a large room, 25x37 feet, with a north exposure, thus giving the best light for miscoscopic work. The apparatus and fittings in this room have been selected with the idea of making the work of each student as independent as possible. Each man is provided with a locker containing all necessary reagents and stains for making microscopic slides. The paraffin ovens are so arranged that each student has his own compartment, thus allowing experiments and special work to be carried on without interference. The laboratory keeps on hand a number of microscopical slides to supplement the work of the student and to illustrate special methods. This same room is used for Embryology. Besides a good collection of chick and pig embryos, the laboratory has a number of models illustrating the development of Echinoderms, Amphioxus, frog, chick, pig and man.

The Anatomy laboratory is located on the fourth floor and is a light, sunny room, 18x37 feet. There is a good collection of skeletons and skulls illustrative of the various types of reptiles and mammals; an articulated human skeleton and one disarticulated; several human skulls, sectional and disarticulated. In Human Osteology, a course required of all premedical students, the bones of the body are modelled in clay.

The room opposite the Anatomy room is used for Bacteriology and Physiology. The laboratory is well equipped with digestion ovens and water baths. There is also a good equipment for work on muscle, nervous tissue, circulation, and respiration, by which many of the laws of physiology can be worked out by the students.

ADMISSION TO THE UNIVERSITY

ADMISSION TO THE FRESHMAN CLASS.

The requirements for admission to the freshman class comprise the completion of a four-year high school course, or its equivalent. For full entrance, fifteen units are required. Graduates of high schools who for any reason do not have fifteen units, may enter as conditioned freshmen if they have satisfactorily completed at least thirteen units. All conditions, so far as possible, must be made up during the first and second years of residence at the University.

By a unit is meant a subject running one year (36 weeks) five times a week, with recitations not less than forty minutes in length.

The required subjects with the number of units in each are as follows:

COLLEGE OF LITERATURE, SCIENCE AND THE ARTS.

English	3 units
Algebra	1½ units
Plane Geometry	1 unit
One Foreign Language	2 units
History	1 unit
Physics	1 unit
Elective	5½ units

COLLEGE OF ENGINEERING.

English	3 units
Algebra	1½ units
Plane Geometry	1 unit
Solid Geometry	½ unit
One Foreign Language	2 units
History	1 unit
Physics	1 unit
Elective	5 units

The elective units may be selected from any of those usually offered as elective subjects by standard high schools, or may include additional Latin, German, History, Solid Geometry, etc. All students are strongly urged to present four units of English.

The following is a list of elective subjects:

English	1 unit
Latin	1 or 2 units
German	1 or 2 units
Botany	1 unit
Chemistry	1 unit
History	1 to 3 units
Zoology	½ unit
Astronomy	½ unit
Geology	½ unit
Physiology	½ unit
Higher Arithmetic	½ unit
Higher Algebra	½ unit
Trigonometry	½ unit
Civil Government	½ unit
Elementary Political Economy	½ unit
Bookkeeping	½ unit
Mechanical Drawing	½ unit
Freehand Drawing	½ unit
Manual Training	½ unit
Solid Geometry	½ unit

COLLEGE CREDIT FOR EXTRA ENTRANCE SUBJECTS.

Credit for work done above entrance requirements, in subjects not preparatory, may be granted only on the satisfactory passing of an examination equivalent to the examination given in the same courses in the University. Students desiring to take an examination for such advanced credit must first obtain a "card of examination" from the Registrar.

ENGLISH.

Every student, at the beginning of his freshman year, shall satisfactorily pass an examination testing facility and accuracy in the use of English; or, he may waive this requirement by taking a course of two semester hours in English during his freshman year, for which college credit will be given.

The examination will be held Monday, September 20, at 2 o'clock in Professor Carson's room, Library Hall.

METHODS OF ADMISSION.

There are two ways of entrance to the University: First, by examination; second, by recommendation from accredited schools without examination. All students from schools not accredited to the University are subject to examination at the University. The examinations will be held during the first week of the college year.

ACCREDITED HIGH SCHOOLS.

It is the policy of the University so to adjust its standard of entrance requirements as not to be out of touch with the schools of the State that do earnest work, and at the same time to protect the scholarship of the University. It will also be the policy, as far as possible, to make the accrediting uniform for the various departments. Schools, therefore, that have a four years' course, with a nine months' year, and subjects running for half a year or more, five times per week, with recitations forty minutes long, and which have the subjects in the state high school course, or their equivalent, will, as far as possible, have their students admitted to the freshman class in the University.

Schools which do not have a nine months' year, five recitations a week, with forty minutes to each recitation, and which have short time subjects running ten, twelve or fourteen weeks each, will be given proportional accrediting, depending upon the time given and the quality of the work done. The state high school course is the basis of the requirements for entrance to the University and the adoption of the state course at once simplifies the passage of students from high schools into the University, and settles almost, if not quite all the questions of accrediting. It is earnestly hoped, therefore, that all high schools will adopt the state course.

LIST OF ACCREDITED SCHOOLS.

Albany—Albany High School.

Ashland—Ashland High School, Southern Oregon Normal School.

Astoria—Astoria High School.

Athena—Athena High School.

Baker—Baker High School.

Bay City—Bay City High School.

Bend—Bend High School.
Burns—Harney County High School.
Cottage Grove—Cottage Grove High School.
Central Point—Central Point High School.
Enterprise—Wallowa County High School.
Eugene—Eugene High School.
Fossil—Wheeler County High School.
Grants Pass—Grants Pass High School.
Hood River—Hood River High School.
Jefferson—Jefferson High School.
Klamath Falls—Klamath County High School.
La Grande—La Grande High School.
Lakeview—Lakeview High School.
Lebanon—Lebanon High School.
Marshfield—Marshfield High School.
Medford—Medford High School.
Monmouth—Monmouth Normal School.
North Bend—North Bend High School.
Oregon City—Oregon City High School.
Parkplace—Parkplace High School.
Pendleton—Pendleton High School, Pendleton Academy.
Portland—Lincoln High School, Washington High School, Allen Preparatory School, Columbia University, Hill Military Academy, Portland Academy, St. Helen's Hall, St. Mary's Academy.
Roseburg—Roseburg High School.
Salem—Salem High School.
Silverton—Silverton High School.
Springfield—Springfield High School.
St. Johns—St. Johns High School.
The Dalles—The Dalles High School.
Tillamook—Tillamook High School.
Weston—Weston Normal School.
Woodburn—Woodburn High School.

STATE SCHOOLS.

Graduates of all the state schools are admitted without examination, with such standing as their work may entitle them.

ADMISSION TO ADVANCED UNDERGRADUATE STANDING.

Advanced standing will be given students coming from institutions of collegiate rank, who can satisfy the committee on advanced

credits that the courses offered are the equivalent to those given by the University. All applications for advanced standing, if not made before the opening of college, should be made as soon as possible after registration in the University, on blanks furnished by the Registrar.

REQUIREMENTS FOR ADMISSION TO SPECIAL STUDENT STANDING.

The privileges of a special student are not granted to those who come from the schools with insufficient preparation for regular standing. They are intended for those who, for any reason, are unable to complete a college course, but who are qualified by age, character, practical experience, purpose, and habits of study, to profit by university courses. Such properly qualified persons not candidates for a degree, who fulfill all the requirements for entrance to the Freshman year, may be admitted to the University to pursue one or more college subjects for which they may be fitted; provided that persons of maturity, twenty years of age or over, and teachers in public or private schools may at the discretion of the Committee on Special Students, enter as special students without conforming to the above requirements, upon presenting satisfactory credentials and testimonials. These requirements shall not apply to special collegiate or other courses where requirements for entrance are specified.

The committee reserve the right to discuss the programme proposed by the student and to require such changes as may in their judgment seem wise. Students other than those of mature years are always required to furnish the committee with evidence that the course proposed subserves a definite object which they have in view.

No student can be accepted without condition whose written English work is seriously defective in point of penmanship, spelling, punctuation, grammar, sentence structure, and paragraphing.

DETAILS OF ENTRANCE SUBJECTS.

ENGLISH.

All regular students must present at least three units (fifteen hours) of entrance English. The entrance English requirements will conform to the state high school course.

All students entering advanced college classes must be accredited with English done elsewhere or fulfill entrance conditions here, through examination or work in class. All freshmen entering the University will be examined in English Composition (except such as prefer to elect a freshman course in English Composition of at least two semester hours). The examination is designed to test the student's ability to write clear, correct, idiomatic English. He will be asked to criticise an extract of classic prose under a few essentials of good English; to write two essays of not less than two hundred words each: one upon some familiar subject drawn from his experience or observation, and the other upon a subject selected from the books mentioned below. These essays will be tested on the following points: The language must be clear and grammatical; the spelling, punctuation, and capitalization must be reasonably correct; choice of words must show discrimination; sentences and paragraphs must be constructed in accordance with the simpler principles of composition. The essays must show ability to organize thought consecutively. (A topical outline may accompany each essay.)

No student will be passed whose work shows serious defects in spelling, punctuation, grammar and structure of sentences and paragraphs, or who presents illegible or untidy manuscript.

As preparation for satisfactory work in the University, constant and regular practice in writing is earnestly recommended. Throughout the four years of the high school course the student should write exercises and revise them after correction by the teacher so as to secure accuracy and self-reliance. The subjects upon which the student writes should be drawn from both literature and daily life and experience, and some degree of ability should be secured in each of the types of discourses: description, narration, exposition, and argument. The fundamental principles of grammar should be mastered in theory and practice. Such principles of rhetoric as are adapted to the student's practical use should be emphasized; principles that make his speech and writing definite and effective, such as good usage in choice of words, correct sentential structure and paragraphing, and outlining of thought.

It is hoped that the high schools will find the following classification of entrance requirements valuable. It is suggested that under "Books for Thorough Study" the work shall take note of

the following points: (a) The language, including the meaning of words and sentences, the important qualities of style, and the important allusions; (b) The plan of the work, *i. e.*, its structure and method; (c) The place of the work in literary history, the circumstances of its production, and the life of its author; and that all details be studied, not as ends in themselves, but as means to a comprehension of the whole.

NINTH GRADE.

I. Books for General Reading and Composition Work.
Dickens: A Tale of Two Cities.
Lowell: Vision of Sir Launfal.
Goldsmith: Vicar of Wakefield.
Hawthorne: The House of Seven Gables.
Whittier: Snowbound and Other Poems.
II. Books for Thorough Study.
Shakespeare: Merchant of Venice.
Franklin: Autobiography.

TENTH GRADE.

I. Books for General Reading and Composition Work.
Longfellow: Courtship of Miles Standish.
Addison: Sir Roger de Coverly.
Shakespeare: Julius Cæsar.
Holmes: Selected Poems.
II. Books for Thorough Study.
Burke: Conciliation of America.
Lincoln: Gettysburg, Inaugural and Other Speeches.
Macaulay: Essay on Addison.
Pope: Homer's Illiad, I, VI, XXII, XXIV.

ELEVENTH GRADE.

I. Books for General Reading and Composition Work.
Tennyson: Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur.
Emerson: Two Selected Essays.
Carlyle: Essay on Burns.
Burns: Cotter's Saturday Night and Other Poems.
Thackeray: Henry Esmond.
DeQuincy: Joan of Arc, and The English Mail Coach.
II. Books for Thorough Study.

Webster: Reply to Hayne.
Shakespeare: As You Like It.
Macaulay: Essay on Milton.
Milton: L'Allegro, Il Penseroso, Comus and Lycidas.

TWELFTH GRADE.

I. Books for General Reading and Composition Work.
Cooper: Last of the Mohicans.
Elliott: Silas Marner.
Tennyson: The Princess.
Coleridge: Ancient Mariner:
Scott: Ivanhoe.
Bunyan: Pilgrim's Progress.
II. Books for Thorough Study.
Shakespeare: Macbeth.
Emerson: The American Scholar.
Milton: Paradise Lost, I and II.
Western Authors: Five Selected Poems.

ALGEBRA.

The requirements in Algebra embrace the following subjects: Factors, common divisors and multiples, fractions, involutions, including the binomial theorem for positive integral exponents; evolution, theory of exponents, radicals and equations involving radicals, ratio and proportions, elementary logarithms; the ordinary methods of elimination, and the solution of numerical and literal equations of the first and second degrees, with one or more unknown numbers, and problems leading to such equations.

Work based on any of the following text-books will be accepted, the work to have five full recitation periods per week for a year and a half, a school year to be at least thirty-six weeks, and a recitation to be at least forty minutes in length.

Wentworth's Complete Algebra, completed, except chapters 22 to 34 inclusive; Well's New Higher Algebra, completed, except chapters 36 to 40 inclusive, and Well's Essentials of Algebra, the state text-book.

PLANE AND SOLID GEOMETRY.

A course based on any one of the following text-books will be accepted; the work to cover five recitations per week for one and a half years.

Wentworth's Plane and Solid Geometry, edition of 1899, completed, including two-thirds of the exercises; Philipps and Fisher's Abridged Geometry, completed, including all problems; Well's Essentials of Plane and Solid Geometry, completed, including all exercises.

The student should be required to state definitions clearly, whether in the language of the text-book or not, and in solving a problem or proving a proposition he should be able to prove every statement made. All figures should be constructed by the student with strict accuracy, on correct geometrical principles, using rule and compass; and this should be persisted in until it can be done with ease. Pains should be taken that original demonstrations be given in good form. Besides oral recitations, the student should be required carefully to write out his own demonstrations, and to apply geometrical principles to the solution of practical and numerical examples. He should be required to demonstrate propositions and solve problems without the aid of the text-book. Solid Geometry is required only of those entering Engineering courses.

HISTORY.

Five recitations a week for one year. Any of the following:

1. Greek and Roman, with connected geography; (a) Greek History to death of Alexander; (b) Roman History to A. D. 800. Botsford's Greek History and Botsford's Roman History are the state texts.

Students preparing for the University in History are strongly urged to take Greek and Roman History.

2. Mediæval and Modern History.—The following indicate the preparation required: Myer's Mediæval and Modern History, Fischer's Growth of Nations, Adams' European History.

3. English History.—Ground covered in History of England by Coman and Kendall.

4. American History and Constitution—Montgomery's Student's History of the United States, Channing's Student History of the United States, or some book of like nature, provided a more elementary history has been previously studied. Otherwise some briefer standard high school history. Strong and Schafer's Government of the American People.

In all cases the text-book should never be depended upon entirely; supplementary work should be done with one or two other

text-books, and at least one large General History for reference. See the report of the Committee of Seven on the study of History in Schools.

SCIENCE.

Five recitations per week for a year in each subject. Science work, to be accepted for entrance to the University, must be from a standard high school text-book; thorough laboratory practice is absolutely necessary when the subject allows. Laboratory manuals and note books must be in constant use, and students coming from schools not accredited to the University, must present their laboratory note books, signed by the teacher. In Chemistry, some text equivalent to Remsen's Briefer Course must be used; in Physics, a text equivalent to Millikan and Gale; in Botany to Bergen's Elements; and in Physical Geography, any standard text.

PHYSICS.

For the present, all students who offer, for entrance to the University, work in Physics as laid down in the state high school course will receive credit therefor. *Beginning September, 1909*, a full year's work in Physics will be required of *all students entering the University.* This work, to be accepted, must include the thorough study of a satisfactory text-book with recitations and written tests, and a substantial amount of laboratory work done by the student himself in a suitably equipped laboratory under competent supervision. The primary purpose of this laboratory work should be instruction, and with this end in view the laboratory period should find a regular place on the school schedule, the list of experiments should be carefully selected to illustrate clearly the most important principles of the subject, and the observations and conclusions carefully recorded in a permanent note-book.

Some faults to be avoided in the work of the laboratory are: The omissions of large subdivisions of the subject, as for instance the entire topic of electricity and magnetism; substituting training in manipulation for the illustration of scientific laws; the slipshod use of rough and qualitative experiments only; waste of time and distraction of attention from the real purpose of an experiment by over insistance on accuracy of results; failure to record facts actually observed; failure to see or state the point; lack of clearness in notes, concealing observations, deductions and conclusions in a mass of writing.

Preparation of the character indicated should be offered earlier than the date announced above if circumstances permit. Students of Engineering and others planning to take more advanced work in Physics will find that such adequate preparation will save much valuable time in the University.

The department plans the early publication of a Bulletin of Suggestions for Teachers of Physics, including some hints on the equipment and conduct of the laboratory.

CHEMISTRY.

In cases where Chemistry offered is considered by the head of the department of Chemistry to be equivalent to Course 1 (see list of courses in Chemistry), the student will be admitted to Course 2, satisfactory work in which will entitle him to one unit college credit in case the preparatory Chemistry was used to fulfill entrance requirements, or two units college credit in case it was not so used.

GREEK.

Five recitations per week each year.

First Year—Greek lessons and Xenophon's Anabasis begun.

Second Year—Xenophon, four books of the Anabasis.

Third Year—Homer, first three books.

FRENCH.

Five recitations per week. Written exercises and grammar work; systematic work in French pronunciation and as much practice in reading as possible to give facility in reading easy French prose.

GERMAN.

Five recitations per week. Written exercises and grammar work and systematic training in German pronunciation. As much drill as possible in rapid reading German prose and poetry.

LATIN.

Five recitations a week each year.

First Year—Latin lessons and grammar, and Viri Romæ, or Nepos, or Cæsar's Gallic War begun.

Second Year—Cæsar, four books.

Third Year—Cicero, six or seven orations, including the four against Cataline, and Sallust's Jugurtha.

Fourth Year—Vergil, six books of the Aeneid.

GENERAL INFORMATION

PUBLICATIONS.

The University of Oregon Bulletin is published monthly, except during the summer vacation. It furnishes information in regard to the current work of the University, and gives the results of special research undertaken by the various departments. The following are the bulletins of the new series:

VOL. A.

1. Public School Libraries. Prof. Luella Clay Carson.

VOL. 1.

1. Education. Prof. H. D. Sheldon. English. Prof. Luella Clay Carson. Nov. 1903. Exhausted.
2. Beowulf. Prof. I. M. Glen. January, 1904.
3. Water Power on the McKenzie River. Prof. E. H. McAlister. March, 1904. Exhausted.
4. Mineral Resources and Mineral Industries of Oregon for 1903. Compiled by the Department of Chemistry. May, 1904.
5. Catalogue for 1903-04. Exhausted.

VOL. II.

1. Water Power on the Santiam. Prof. E. H. McAlister. November, 1904.
2. Tendencies in Recent American Road Legislation. Prof. F. G. Young, January, 1905. Exhausted.
3. General Register of the University of Oregon, 1873-1904. March, 1905. Exhausted.
4. General Announcements for 1905-06. Exhausted.
5. Catalogue for 1904-05. Exhausted.

VOL. III.

1. State Normal School Systems of the United States. Prof. H. D. Sheldon. November, 1905.
2. Annual Report of the President of the University, January, 1906.

3. Some Botanical Notes From the Biological Laboratory. Prof. Albert R. Sweetser. March, 1906.

A New Fossil Pinniped. Prof. Thomas Condon. Supplement to No. 3. May, 1906.

4. Catalogue of the University of Oregon, 1905-06. May, 1906. Exhausted.

5. A Student's Geological Map of Oregon, with Notes. Ellen Condon McCornack. July, 1906.

VOL. IV.

1. State Systems of High School Control. Henry Davidson Sheldon. November, 1906.

2. The University Library, Its Conditions and Needs. Joseph Schafer. December, 1906.

3. Annual Report of the President of the University. January, 1907.

4. A Brief List of Books on Nature Study. Prof. H. D. Sheldon.

Relation of Leguminous Plants to Soil Fertility. Prof. A. R. Sweetser. February, 1907.

5. Dentaria (Spring Beauty). Prof. A. R. Sweetser. March, 1907.

6. General Announcements and Summer Session. April, 1907.

7. Catalogue of the University of Oregon, 1906-07. May, 1907. Exhausted.

8. In Memory of Thomas Condon. June, 1907. Edited by Prof. Luella Clay Carson.

9. Oregon High School Debating League. Prof. Edgar E. DeCou. October, 1907.

VOL. V.

1. Rules of the Faculty and Board of Regents. November, 1907.

2. Correspondence Department, Catalogue. December, 1907.

3. President's Report. January, 1908.

4. General Register University of Oregon. February, 1908.

5. Student Loan Funds. President P. L. Campbell. March, 1908.

6. Catalogue of the University of Oregon, and announcements for 1908-09. April, 1908.

7. Summer Session and Announcements, 1908. May, 1908.

8. Country High School Organization, and the Training of Teachers. September, 1908.

VOL. VI.

1. Catalogue and Announcements Correspondence Study Department. October, 1908.

2. Oregon High School Debating League. Prof. Edgar E. DeCou. November, 1908.

3. The Acquisition of Oregon Territory. Part I. Discovery and Exploration. Prof. Joseph Schafer, Ph. D. December, 1908.

4. Report of the President of the University, with Reports of Steward and Registrar. January, 1909.

5. Procedure for Tax Reform in Oregon. Prof. F. G. Young. February, 1909.

6. Illustrated Bulletin of General Information. March, 1909.

7. Catalogue of the University of Oregon and anonuncements for 1909-10. April, 1909.

The Oregon Semi-Weekly is published twice a week during the college year by the student body of the University. The paper is devoted to general college news, and aims to keep the students, faculty and alumni posted concerning the every-day happenings at the University and neighboring institutions. The staff consists of an editor, with eight or ten assistants. The various members of the staff are elected during the second semester and hold office for one year.

The University of Oregon Monthly is a monthly magazine published by the student body of the University. It is confined to literary articles written by students, alumni, and other persons connected with the institution. The aim of the Monthly is to arouse and cultivate among the students practical literary ability, and also to serve as a medium between the University and its alumni.

The Oregon Engineer is a monthly magazine published by the students of the various departments of Engineering. It has general circulation among the student body and among the engineers of the State. Its object is the dissemination of engineering news and the strengthening of the engineering work of the University. It gives all students interested an opportunity to contribute articles of interest. The control is vested in an editor-in-chief and a business manager, with their assistants.

SOCIETIES.

LITERARY.

The Laurean and Eutaxian Corporation was organized with a state charter in 1877 to further the literary interests of the societies of the University. Its library was for years the sole library of the University, and it furnished the nucleus for the present library.

The Laurean Society was founded in the first year of the University. Its purpose is to give its members "growth and development of mind, together with readiness and fluency of speech," and for this object a debate is held every Saturday evening. Declamations and orations by the members, and addresses by professors and other eminent men are also part of the weekly program. Occasionally joint social meetings are held with the other two societies, and an annual contest with the Philologian Society, held in December, is a part of the debating system.

The Philologian Society was organized October 21, 1893. Its object is to discuss questions of general interest, and to secure for its members proficiency in debate and a thorough knowledge of parliamentary usage. The usual exercises are a short literary program and a debate. The officers are elected for a term of ten weeks, and the meetings are held in the Physical lecture room at 7:30 on Friday evening.

The Eutaxian Society is the literary society of the women of the University. It was organized in 1877, and has given valuable training to the numbers of students who from year to year have planned its work and carried out its programs. The society is well organized and has a good, active membership. Meetings are held every Friday afternoon from 3 to 4 o'clock. The program, which is varied from time to time, includes prepared and impromptu addresses, reviews and discussions of current events, debates, and parliamentary drills. Resident alumnæ members take an active part in the work of the society, a fact which adds greatly to the strength and value of the organization.

ENGINEERING.

The Engineering Club was organized November 30, 1904. Engineering students in Sophomore, Junior and Senior classes are eligible for membership. The club holds its meetings on the first and third Fridays of each month. Officers are elected for the whole year.

The purpose of the club is to stimulate an interest among its members in the whole field of engineering, and to encourage original research and observation in practical engineering problems. The programs, which are partly illustrated, consist of papers and addresses by members of the faculty and students.

Der Verein Germania.

Der Verein Germania was organized at the University of Oregon during the past year by students in the department of German. Meetings are held each Tuesday evening. Musical and literary programs and discussions are given in German. The purpose of the club is to familiarize its members with German customs and life, and to give them a more fluent command of the language. All students in the department of German are eligible for membership.

The Dramatic Club.

The Dramatic Club is composed of students of the University. All students are eligible who are successful in the try-outs held each fall. The purpose of the organization is to stimulate an interest in dramatic art and to develop latent talent among the members. At least two public rehearsals are given each year in addition to those given only before the club.

Religious.

The Young Men's Christian Association has its rooms in Deady Hall. It endeavors to promote growth in grace and fellowship among its members, and stands for Christian life and work in the University. It holds regular prayer meetings on Friday evenings at 6:45 o'clock.

The Association maintains an employment bureau in connection with the Admininstration Office, the services of which are free to students in all departments of the institution.

The Association has a committee to help students find comfortable rooms and boarding places. Students will be more apt to secure rooms as they desire them if they send word before coming to the University, telling the price they wish to pay.

A Student's Handbook, containing items of information especially valuable to new students, is issued at the end of the college year. A copy will be sent free to any address on application. Apply to the General Secretary.

Address all inquiries to the General Secretary of the Y. M. C. A., University of Oregon, Eugene, Oregon.

The Young Woman's Christian Association was organized in March, 1894. Its purpose is to crystallize the Christian element in the University, and make the influence of that element felt among all the young women. Its social function is an important part of its work. New students are met as they come from the trains, and everything is done to make them welcome. Informal prayer meetings are held every Wednesday afternoon at 3 o'clock in the Association parlors. Officers are chosen the first week in January to serve one year. Any young woman wishing information in regard to the association is invited to correspond with the General Secretary of the Association at Eugene.

ORATORICAL ASSOCIATIONS.

In addition to the University instruction in Elocution and Oratory, an active and earnest interest in public speaking is fostered and maintained through the agency of voluntary associations of students, which arrange and conduct debates and contests and co-operate with similar organizations in other institutions.

INTER-STATE ORATORICAL ASSOCIATION.

The Inter-State Oratorical Association was organized in 1903 by representatives of the University of Idaho, University of Washington, and University of Oregon. An annual oratorical contest is held each year some time between the first of May and the last of Commencement week, in turn at each of the three universities. All legitimate expenses of the contestants are paid. The King County Bar Association, of the State of Washington, offers annually a prize of $75 to the winner of the contest and $25 to the holder of second place. The contest for 1909 will be held at the University of Idaho. The University will be represented by Benjamin H. Williams, of the class of 1910.

INTER-COLLEGIATE ORATORICAL ASSOCIATION.

The Inter-Collegiate Oratorical Association is an organization of the following colleges and universities of Oregon: Pacific College, McMinnville College, Albany College, Oregon Agricultural College, Pacific University, Willamette University, and the Uni-

versity of Oregon. An annual contest is held each year in turn at each of the colleges interested.

INTER-STATE DEBATING LEAGUE.

The Inter-State Debating League was organized in 1906, consisting of the University of Washington, University of Idaho, and University of Oregon. Each institution has two teams, which support opposite sides of the question. The affirmative team remains at home and the negative team goes abroad. The contests are held on the last Friday in March of each year.

UTAH-OREGON DEBATING LEAGUE.

The annual debate between the University of Utah and the University of Oregon is held at Salt Lake City. Each university is represented by two men.

OREGON HIGH SCHOOL DEBATING LEAGUE.

The Oregon High School Debating League was organized to promote debating in the high schools of the State. Last year 28 high schools enrolled in the four districts—Southern, Central and Eastern Oregon, and Columbia River. This year the increased number has caused the formation of a new district—Coos Bay. The champions of the various districts debate each other and the final debate for the championship of the State is held each May at the University of Oregon, the winning team being awarded the beautiful sterling silver "Regents' Cup." The officers of the league are: President, Principal E. T. Marlatte, Salem; Secretary-Treasurer, Prof. E. E. DeCou, University of Oregon.

ATHLETICS.

The Athletic Council of the University of Oregon, consisting of three members of the Faculty and the President ex-officio, three members of the Alumni Association, and three members of the Student Body, exercises control over all athletic interests of the University. Under its supervision is the football team, the track team, the baseball nine, basketball team, tennis club, and indoor baseball club.

The members of the Athletic Council for the present year are: Prof. B. J. Hawthorne, Prof. I. M. Glen, and Mr. W. L. Hayward, representing the Faculty; Mr. C. N. McArthur, Judge L. T. Harris, and Mr. G. W. Hug, representing the Alumni Association; and

Mr Paul Reid, Mr. William Wood, and Mr. Ralph Dodson, representing the Student Body.

MUSICAL.

The University of Oregon Glee and Mandolin Clubs are student organizations, open to all students who are successful in the tryout held during the first week of the University year. The Glee Club is composed of sixteen men, and the Mandolin Club of twelve or more men. Yearly Thanksgiving concerts are given in Eugene and Portland, and a tour is usually made during the Christmas holidays.

The yearly selection of officers is held at the beginning of each school year. All officers except the director are chosen from the membership of the club. The clubs are under the direction of Irving M. Glen, Professor of Early English Literature and Dean of the School of Music.

The Treble Clef, a musical club for women, was organized during 1900. It consists of sixteen voices, four on each part, and is under the direction of the University School of Music. Regular practice is held throughout the year, and an annual concert is given just before the Easter holidays.

The University Band is open to all students who are successful in the tryout. The band furnishes music for games, rallies, and other student affairs. It offers valuable training to those interested in this kind of music.

STUDENT LOAN FUND.

Through the generosity of Mr. William Ladd of Portland, Mr. A. S. Roberts of The Dalles, and the Class of 1904, the University Loan Fund was begun. Although for a number of years the total amount of the fund reached only a little more than $500, yet its benefits were large and through it many students were enabled to complete their college course who otherwise could not have done so. At the beginning of the present year Senator R. A. Booth of Eugene became interested and added the sum of $500. Through his efforts a number of others, among whom were Mr. Theodore B. Wilcox and Mr. J. C. Ainsworth of Portland, and Mr. John Kelly of Eugene, have made substantial donations. Two or three other donors have requested their names

not to be published. On February 12th of this year a check for $1,000 was received through Hon. J. N. Teal from the D. P. Thompson estate, the largest single gift ever made to the fund, bringing the grand total up to $2,700. These very generous donations of the year have made it possible more nearly to meet all of the demands for assistance. There has been no considerable space of time when any large amount of money was lying idle in the bank. Loans are made to deserving students at a low rate of interest and every precaution is taken to safeguard against loss.

The University hopes to establish a student loan fund of from $5,000 to $10,000, and to this end invites correspondence from any who may desire to contribute either large or small amounts. It believes that a loan is much preferable to an outright gift in the form of a scholarship. The fund is loaned under the direction of the President of the University to boys and girls all over Oregon, who desire to complete a college education, but who cannot do so without assistance. A loan of $100 a year will be made to deserving students, to be repaid usually within two years after graduation. A low rate of interest will be charged, and in addition to the signature of the student and one other person, a small amount of life insurance will be carried. It is planned also to have ten men guarantee the fund against loss. The University believes that no better way can be devised for aiding worthy students, than that of a well managed loan fund.

TEACHER'S BUREAU.

The University maintains a teacher's bureau. It does not guarantee to find positions for all its graduates, but it will assist them in every possible way to find good locations. During the past few years the demand for well trained university graduates to fill positions as principals and teachers in the high schools of Oregon has been much above what the University has been able to supply. All assistance which the University can give is freely at the command of its students and graduates.

LECTURES.

A large number of the members of the Faculty are available for institutes and lectures. They are glad to deliver addresses or

help in institutes at any time that does not conflict too much with their regular University work. Letters should be addressed to the members personally or to President P. L. Campbell or Mr. A. R. Tiffany, Secretary of the Faculty.

GENERAL ASSEMBLY.

A General Assembly of the University is held each Wednesday at 10 A. M. Appropriate exercises are held and interesting and important addresses made by invited guests, or by the President and members of the Faculty of the University.

MISCELLANEOUS.

The Societas Quirinalis is a classical club, composed only of advanced students in Greek and Latin, for the purpose of furthering and fostering the pursuit of classical studies and for the social intercourse of students in that department of work. The Quirinalis meets on the first Tuesday of each month during the college year, social sessions alternating with public lectures and meetings, at which papers on special topics are read by selected members.

The Faculty Club, composed of all the members of the Faculty, meets once every two weeks. Papers are read by various members on special subjects of interest.

Lectures—Frequent lectures by invited guests from Oregon and other states are given to students upon subjects allied to the courses given in the University. These lectures are by those fitted by training and experience to speak with authority.

Recitals—The School of Music gives recitals at stated times during the year, to which all students of the University are invited.

The Alumni Association of the University of Oregon was organized in 1879. The membership consists of all the graduates of the University. The objects of the Association are to "advance the cause of higher education, to promote the interests of the University of Oregon, and to encourage mutual acquaintance and goodfellowship among the alumni." The annual meeting is held at Eugene during Commencement Week. The dues of the Association are one dollar a year, fifty cents of which goes toward paying the general expenses and fifty cents for the subscription to the Oregon Weekly. The Weekly is sent to every member of the Association. The officers for 1908-09 are: President, L. R. Alder-

man, '98; First Vice-President, Allen H. Eaton, '02; Second Vice-President, Fred J. Zeigler, '02; Secretary-Treasurer, Albert R. Tiffany, '05. Members of the Athletic Council: L. T. Harris, '93; C. N. McArthur, '01; George W. Hug, '07.

The Associated Students exercises general control over all student affairs within the University. The general management of its affairs is entrusted to an executive committee, consisting of a president, vice-president, secretary, and two members at large. Officers are elected on the second Wednesday in May of each year.

UNIVERSITY REGULATIONS

REGISTRATION.

On the appointed Registration Days, in September and February, each student must present himself at the Registrar's office and obtain a *Certificate of Registration.*

STUDY CARD.

At the time of registering, the student receives a blank Study Card for the selection of studies for the semester. This card, properly filled out and signed by the student's adviser (head of department in which the major subject is taken), and the instructors with whom work is taken, must be filed with the Registrar within three days of the date of registration.

ENROLLMENT IN CLASSES.

At the beginning of each semester, a student must present his certificate of registration to the instructors of the courses in which he desires to be enrolled, and satisfy the instructor in charge that he has had the prerequisite work.

CHANGE OF STUDIES.

If because of difficulties with the schedule, or if for any other reason satisfactory to his adviser, any student wishes to make a change in enrollment he may do so by obtaining a "Change of Enrollment Card" from the Registrar and complying with the requirements indicated upon the card itself, as follows: This card to be effective, must be made out, dated, and signed by the adviser of the student in whose favor it is drawn. The date of use, except after special faculty action, must not be later than ten days from the date upon which the student registered in the University. The Registrar and all instructors are forbidden to honor it under any other conditions.

The instructor from whose course the change is made signs this card as an acknowledgement that he has been duly notified

of the change. The instructor in the new course acknowledges by his signature that formal enrollment has been made.

WITHDRAWAL FROM CLASS.

In case of a student leaving a course without substituting other University work for it the act is to be regarded as a withdrawal upon fulfillment of the following conditions: The act is to be initiated either by the student himself or his adviser; the adviser, after consultation with the instructor giving the course from which withdrawal is desired, must approve; the withdrawal is then effective upon filing the withdrawal card, properly executed, with the Registrar. But withdrawal shall not be granted within one month of the final examination period. The mark "W" in semester grade reports is to be held as applying exclusively to the cases coming under this paragraph.

Withdrawal cards may be obtained from the Registrar.

DISMISSAL FROM COURSES.

Dismissal from a course may be made at any time by the instructor in charge, and shall be effective after consultation upon the part of the instructor with the adviser of the student concerned. Such dismissal shall be considered a failure, and shall be indicated upon the semester grade reports by "E."

AMOUNT OF WORK.

The maximum number of semester hours for students in the first three years is 16, minimum 13; for students in the senior class, maximum 16, minimum 12.

Students without deficiencies, whose record for the preceding semester shows a grade of at least "B" in two-thirds of their work, and no grade below "C," may be permitted to carry a maximum of eighteen hours; but the extra course or courses shall not count for graduation. Students carrying extra work under this provision shall be required to drop it in case their standing in any subject is reported below "C."

Students having deficiencies resulting from failure shall not be allowed to take any extra hours for graduation on account of such deficiencies.

MINIMUM AMOUNT OF WORK ACCEPTED.

The failure on the part of a regular student to make nine hours' credit in a semester shall automatically suspend the student from the University for the following semester; a second failure to make nine hours' credit in a semester shall permanently sever the student's connection with the University.

ATTENDANCE AT CLASSES.

All students are expected to attend classes regularly. Daily reports are sent to the Registrar by all instructors, and three *unexcused absences* will automatically sever the student's connection with the class.

LEAVE OF ABSENCE.

Every student before leaving town during the session of the University is expected, as a matter of courtesy, to obtain a *leave of absence* card. These cards may be obtained by the women from the Dean of Women, and by the men from the Registrar. Absence from the University without this card will count as *unexcused absences.*

CONDITIONS AND FAILURES.

All conditions and incompletes in college subjects must be made up within one semester.

Examinations for the removal of conditions will be held on the first Monday and the following Tuesday in December, and on the Monday and Tuesday preceding the regular examination period in the second semester. Conditions may also be made up at the regular examination time.

MATRICULATION DEFICIENCIES.

Students admitted as freshmen, but having entrance conditions, may be allowed to make up during the first two years of their course, either in the University or elsewhere, a total equivalent of two preparatory units; but the total number of hours, including college and preparatory work, for any one semester, shall not exceed eighteen hours.

All matriculation deficiencies must be cleared up by the beginning of the junior year; but in cases where there is only

one unit of entrance deficiency, it must be made up during the freshman year. Such deficiencies may be made up either at the high school or under an approved private tutor.

ADVANCED STANDING.

Advanced standing will be given students coming from institutions of collegiate rank, who can satisfy the Committee on Advanced Credits that the courses offered are the equivalent of those given by the University. All applications for advanced standing, if not made before the opening of college, should be made as soon as possible after registration in the University, on blanks furnished by the Registrar.

CHANGE OF MAJOR.

A student may change majors at the beginning of any academic year by filing a petition, indicating the proposed change, with the Registrar. Change of major at any other time shall be made only with the consent of the departments concerned, and after action by the University Faculty.

SCHEDULE OF MARKS.

A equals 95 to 100 percent. B, 90 to 95 per cent. C, 80 to 90 per cent. D, 70 to 80 per cent. E, failure. Seventy per cent is the passing mark, and below 70 is failure.

Inc., incomplete. Quality of work satisfactory, but unfinished for reasons acceptable to instructor, and additional time granted.

W, withdrawal from class before middle of semester.

Incomplete work must be completed by the student within one semester; conditions must be removed within one year. Failure means that the student cannot receive credits until the work is regularly re-registered and taken over again.

HONORS.

Honors will be assigned to graduates as follows:

Students shall graduate *summa cum laude* when at least half their credits rank A, and not more than three credits, C; none below; *magna cum laude* when not more than three credits rank below B, and none below C; *cum laude* when not more than three credits rank below C; when a student's credit ranks lower than any of the above, he graduates *rite*.

SPECIAL HONORS TO SENIORS.

Under the following rule special honors will be given to seniors:

On or before the Saturday preceding Commencement Week, each head of department shall place in the hands of the Senior Credit Committee the titles of all major theses which are in his opinion of unusual excellence, the writers of such theses being thereby recommended to the faculty for special honors which shall be indicated on the Commencement program and elsewhere as the committee shall indicate.

PRIZES AND SCHOLARSHIPS

PRIZES

THE FAILING PRIZE.

The Failing prize, not to exceed one hundred and fifty dollars, is the income from a gift of twenty-five hundred dollars made to the University by Hon. Henry Failing, of Portland. It is awarded "to that member of the Senior Class in the Classical, the Scientific or the Literary Course prescribed by the University, or such courses as may, at the time, be substituted for either of said courses, who shall pronounce the best original oration at the time of his or her graduation."

THE BEEKMAN PRIZE.

The Beekman prize, not to exceed one hundred dollars, is the income of a gift of sixteen hundred dollars made to the University by Hon. C. C. Beekman, of Jacksonville. It is awarded under the same conditions as the Failing prize, for the second-best oration.

Subjects for the Failing and Beekman prize orations must be handed to the Registrar by January 10. The preliminary contest to choose the six best orators to compete in the final contest will be held Saturday morning, May 1. The Failing-Beekman contest will be held on the evening of Tuesday of Commencement Week.

AWARDS OF THE FAILING PRIZE.

1890 Edward H. McAlister, Eugene.
1891 E. Etta Levis, Harrisburg.
1892 Lenn Stevens, Eugene.
1893 Carey F. Martin, Eugene.
1894 Irving M. Glen, Dayton.
1895 Julia G. Veazie, Dallas.
1896 H. S. Templeton, Halsey.
1897 Clinton E. Woodson, Currinsville.
1898 H. S. Church, Coburg.

1899 Lawrence A. Read, Portland.
1900 Homer D. Angell, The Dalles.
1901 B. C. Jakway, Portland.
1902 Elizabeth Logan, Eugene.
1903 Ella F. Travis, Eugene.
1904 Pearl Luckey, Portland.
1905 V. W. Tomlinson, Woodburn.
1906 Norma L. Hendricks, Eugene.
1907 Nettie Burdick, Cottage Grove.
1908 Bert W. Prescott, Baker City.

AWARDS OF THE BEEKMAN PRIZE.

1890 Agnes M. Green, Seattle.
1891 Veina E. Adair, Eugene.
1892 Fred S. Dunn, Eugene.
1893 Thomas M. Roberts, The Dalles.
1894 Elias M. Underwood, McMinnville.
1895 Benetta Dorris, Eugene.
1896 V. V. Johnson, Eugene.
1897 Ida Noffsinger, McCoy.
1898 Clyde V. Fogle, Eugene.
1899 Bertha Slater, La Grande.
1900 Mary McAlister, Eugene.
1901 R. S. Smith, Klamath Falls.
1902 J. A. Gamber, Lacomb.
1903 J. H. Gilbert, Watsonville.
1904 Rosa Dodge, Ashland.
1905 Cora Shaver, Portland.
Joseph Templeton, Halsey.
1906 Loris M. Johnson, Eugene.
1907 Max Sylvius Handman, Portland.
1908 Miriam Van Waters, Portland.

THE BENNETT PRIZE.

The Bennett prize is the income from a gift of four hundred dollars made to the University by Hon. Philo Sherman Bennett, of New Haven, Connecticut. It is given for the best student paper on the principles of free government. The Bennett prize for 1908 was won by Earl F. Strong, '09, of Roseburg, Oregon.

ALUMNI MEDAL.

The Alumni medal is presented annually by the Alumni Association of the University to the best individual student debater. The medal for 1909 was won by Charles W. Robison, of the class of 1911.

SCHOLARSHIPS

MEDICINE.

The University of Oregon School of Medicine offers annually one full scholarship and two half scholarships. The holder of the full scholarship is exempt from all fees except some incidentals, the total reduction from the regular fees of the session being $120 for the first and second years of attendance. The half scholarship carries a reduction of $60 for each session in the same way. Two half scholarships cannot be united to make one full scholarship.

The scholarships are awarded to graduates of the University of Oregon, having a Bachelor's degree of not more than three years' standing at entrance to the Medical School. The awards are made by the faculty of the University, subject to approval of the Medical faculty.

COLLEGE ALUMNAE SCHOLARSHIP.

The Oregon Branch of Collegiate Alumnæ offers to the young women of Oregon a scholarship of $200 at the University of Oregon for 1909-10.

Application for this scholarship should be in the form of an informal letter stating fully the work done in the preparatory school and the course desired in the University, with whatever further information the candidate may consider desirable. The candidate who, in the judgment of the committee, is the best fitted to do excellent work will be appointed. Applications may be addressed to the chairman of the committee, Miss Laura Northup, Portland High School, or 261 Fourteenth street, Portland, Oregon.

STUDENT EXPENSES

INCIDENTAL FEE.

There is no tuition at the University of Oregon. The incidental fee, payable each year by students in all departments of the University, is $10. There is also a student-body tax of $5 per year for the support of student enterprises. Graduate students in absentia are not required to pay the student-body tax. The fees in the School of Music vary with the instruction.

A diploma fee of $10 is charged for the first degree taken, and $10 for each succeeding degree. The rules prescribe that no person shall be recommended for a degree until he has paid all dues, including the diploma fee.

GENERAL EXPENSES.

Comparative statement of student's expenses for the academic year, from September to June:

	Low.	Average.	Liberal.
Incidental Fee	$ 10.00	$ 10.00	$ 10.00
Student Body Tax	5.00	5.00	5.00
Board and Room	162.00	192.00	270.00
Sundries	33.00	93.00	115.00
	$210.00	$300.00	$400.00

The expenses of one person for a year vary according to the circumstances of the case, but, as will be seen from the above statement, are in general very low. The following estimate is probably substantially correct: Room from $0.50 to $2.50 per week; board from $3.00 to $4.50 per week; board and room in Men's Dormitory $3.50 to $4.00 per week; board and room in Women's Dormitories $4.00 and $4.50 per week; books from $5.00 to $12.00 per year. Students often rent rooms and do light housekeeping, thus reducing the cost of living to a very low point.

SELF-SUPPORT.

Seventy per cent of the men attending the University during 1907-08 and 1908-09 were either wholly or partly earning their own way by work in the summers and work done during the college year. Eugene is a rapidly growing town of 10,000 inhabitants, whose citizens are friendly to the University and take pleasure in affording to students the opportunity to earn their necessary expenses. The work available during the session consists of janitor work, typewriting, reporting, tutoring, waiting on table, clerking, clothes pressing, odd jobs, etc. The Y. M. C. A. conducts a free labor bureau, which is at the service of the students. The demand for student help is usually larger than the supply. The University is glad to be of all possible assistance to those desiring to find work.

LABORATORY FEES.

In all laboratory courses a charge is made for the use of the laboratory and its equipment, for supplies used, and for breakage. At the end of the semester or year, depending on the course taken, any cash balances are returned or collected as the case may be. Payment of the fee must be made before enrollment in any laboratory course.

Following are the amounts of deposit required and a statement of the usual expenses of the different courses:

BOTANY AND ZOOLOGY.

A deposit of $5 is required for each laboratory course, with the exception of Botany I, Botany II, and Botany VIII, and Zoology I, and Zoology II, which are $2 each. Additional expense for supplies, if any, is met by the purchase of coupons. The usual expense to the student in advanced courses is from $2 to $4.

CHEMISTRY.

The deposit for each course is $10. Additional expense for supplies, if any, is met by the purchase of coupons. All returnable material, as well as unused portions of coupons, are redeemed at the close of the laboratory work in any course at their cash value. The usual cost to the student is as follows:

General Chemistry, $10.
Analytical Chemistry, $15 to $20.
Organic Chemistry, $15 to $20.
Physical Chemistry, $10.

CIVIL ENGINEERING.

Deposit for Testing Laboratory or Topographical Surveying, $2.50.

Key deposit for Mechanical Drawing, $1; refunded at the end of the course on the return of the key.

ELECTRICAL ENGINEERING.

Deposit $3 for each course. The usual expense is, for
Courses 1 and 2, $2 a semester.
Courses 3, 4, 5, 6 and 7, $3 a semester.
Courses 24, 25 and 41, $2 a semester.
Courses 23 and 40, $1 a semester.

MINING AND METALLURGY.

The deposit for each laboratory course is $10. The assaying course usually costs an additional $5 for fuel.

GYMNASIUM.

Locker fee, $1.50. Of this amount $0.50 is refunded when the locker is surrendered and the keys returned.

PHYSICS.

A deposit of $5 is required for each course each semester. The usual expense for Courses 1 and 3 is $2.50 per semester.

ORGANIZATION OF THE UNIVERSITY

GRADUATE SCHOOL.

COLLEGE OF LITERATURE, SCIENCE AND THE ARTS.
- General Courses in Liberal Arts.
- Special Courses, including
  - Course Preparatory to Medicine.
  - Course Preparatory to Law.
  - Course Preparatory to Journalism.

SCHOOL OF COMMERCE.

COLLEGE OF ENGINEERING.
- Civil Engineering.
- Electrical and Mechanical Engineering.
- Mining Engineering.
- Chemical Engineering.

SCHOOL OF EDUCATION.
- A four years' course.

SUMMER SCHOOL.
- A six weeks' course.

CORRESPONDENCE SCHOOL.

SCHOOL OF MUSIC.
- General Courses in Theory and Harmony.
- Piano.
- Voice.
- Violin.

SCHOOL OF MEDICINE.
- A four years' course.

SCHOOL OF LAW.
- A three years' course.

THE GRADUATE SCHOOL

FACULTY.

The faculty of each college consists of the President of the University and the professors, assistant professors, and instructors giving instruction in the college.

ORGANIZATION.

The administration of the Graduate School is entrusted to a committee of the University Faculty called the Graduate Council.

AIM.

The Graduate School in the different departments adapts its work to the needs:

1. Of those desiring to fit themselves for higher positions in the work of education and who as preparation for this work seek to specialize along definite lines.
2. Of those desiring to utilize the opportunities offered by the University to gain greater proficiency in other lines of professional activity or public service.
3. Of those competent to undertake research problems in any department of study and to be of service in the advancement of knowledge. Provision has been made for the publication under the auspices of the University of the results of especially meritorious work of this kind.

ADMISSION AND REGISTRATION.

Students holding the Bachelor's degree from this University or other institutions whose requirements for the degree are equivalent, and who desire to do graduate work, whether for an advanced degree or for no degree, are admitted to the Graduate School. Students holding a Bachelor's degree, but desiring to obtain a first degree in some other line, will register in the Undergraduate Department. Candidates for admission to the Graduate School must make formal application upon blanks, furnished for

that purpose, to the Graduate Council, submitting diplomas or other evidence of the requisite standing.

When approved by the Graduate Council, the applicant pays the required fee at the Steward's office, and receives from the Registrar, each semester, a study card to be filled out by his major professor. In case of a candidate for an advanced degree, the major professor must be the head of some department in which, either here or in the university from which he comes, the student has taken a sufficient amount of work to fit him for graduate study. The minor may be taken in undergraduate work. When made out the study card whether the student be a candidate for an advanced degree or not, must be submitted to the Graduate Council for formal approval. Otherwise, graduate students not seeking a degree are subject to the same regulations as undergraduates.

ASSIGNMENT OF STUDIES.

The heads of departments in which the student takes work constitute his Special Committee, which determines his course, conducts his examinations, and upon completion of all requirements, certifies to the Graduate Council his having earned the degree. The head of a department in which the candidate for an advanced degree takes his major work shall be his adviser, and chairman of his Special Committee.

DEGREES GRANTED.

The University now offers the following advanced degrees: Master of Arts, Master of Science, Civil Engineer, Electrical Engineer, Mechanical Engineer, Mining Engineer.

THE MASTER'S DEGREE.

Candidates for the degree Master of Arts or Master of Science must complete at least six weeks (one summer term) of study in residence, with the condition that all work in absentia for the Master's degree shall be done in regularly organized courses in the University Correspondence Department. The work to be counted toward an advanced degree must be divided between a major subject and a minor, the former receiving approximately twenty semester hours and the latter ten. Six of the thirty hours may, at the option of the candidate's Special Committee, be assigned to the thesis. All candidates must, on or before

Monday of the third week before the last of the University year in which the degree is to be conferred, file with the Registrar for the Graduate Council a thesis approved by the chairman of his special committee having charge. Within the week in which the thesis is filed the candidate shall sustain an oral examination by a committee of three appointed by the President of the University, two of which shall be the heads of departments in which the student takes his work.

Students who during their candidacy for the Master's degree are engaged in teaching or other gainful employment, will be required to devote to their studies such longer period than one year as may be designated by the Graduate Council.

ENGINEERING DEGREES.

Bachelors of Science in Engineering of this University, or of other colleges or universities of equal rank, may receive at the expiration of one additional year of study the professional degree of Civil Engineer, Electrical Engineer, Chemical Engineer, or Mining Engineer, appropriate to the undergraduate course taken, in accordance with the requirements prescribed in the College of Engineering.

Bachelors of Science in Engineering may receive the professional degree named above without the additional year of study at the University, who have spent at least three years' actual time in professional practice in positions of responsibility, in the designing, construction or operation of engineering work, and who shall furnish details of satisfactory evidence as to the nature and extent of this practice.

They must submit an engineering thesis accompanied by detailed explanations, drawing, specifications, estimates, etc., embodying the results of their work or observations. If approved, the thesis and all accompanying material shall be the property of the University. All theses for any degree must be delivered to the Dean of the College of Engineering on or before the 15th day of May.

COLLEGE OF LITERATURE, SCIENCE AND THE ARTS

THE FACULTY.

P. L. CAMPBELL, A. B., President.

LEWIS R. ALDERMAN, B. A., Professor of Education and Director of Correspondence School.

FRANK L. BARKER, E. M., Professor of Geology.

JAMES D. BARNETT, Ph. D., Professor of Political Science.

JOHN FREEMAN BOVARD, M. S., Assistant Professor of Biology.

WILLIAM PINGRY BOYNTON, Ph. D., Professor of Physics.

LUELLA CLAY CARSON, A. M., Professor of Rhetoric and American Literature.

ROBERT CARLTON CLARK, Ph. D., Professor of History.

TIMOTHY CLORAN, Ph. D., Professor of Romance Languages.

EDGAR EZEKIEL DECOU, M. S., Professor of Mathematics.

FREDERIC STANLEY DUNN, A. M., Professor of Latin Language and Literature.

IRVING MACKAY GLEN, A. M., Professor of English Language and Early English Literature.

BENJAMIN JAMES HAWTHORNE, A. M., Professor of Psychology.

WILLIAM L. HAYWARD, Director Men's Gymnasium.

HERBERT CROMBIE HOWE, A. B., Professor of Modern English Literature.

JOSEPH SCHAFER, Ph. D., Professor of History.

FRIEDRICH GEORG G. SCHMIDT, Ph. D., Professor of the German Language and Literature.

HENRY DAVIDSON SHELDON, Ph. D., Professor of Philosophy and Education.

FREDERICK LAFAYETTE SHINN, Assistant Professor of Chemistry.

ORIN FLETCHER STAFFORD, A. B., Professor of Chemistry.

JOHN STRAUB, A. M., Professor of Greek Language and Literature, and Dean of the College of Literature, Science and the Arts.

ALBERT RADDIN SWEETSER, A. M., Professor of Biology.

FREDERICK GEORGE YOUNG, A. B., Professor of Economics and Sociology.

JULIA BURGESS, M. A., Instructor in English.

MABEL COOPER, B. A., Assistant in Correspondence School.

JAMES CURRIE, M. A., Instructor in Chemistry.

SAMUEL ELIOT, B. A., Instructor in Psychology.
JAMES HENRY GILBERT, Ph. D., Instructor in Economics and Political Science.
MOZELLE HAIR, B. A., Assistant Instructor in Modern English Literature.
ANDREW W. JACKSON, B. A., Assistant Instructor in Physics.
MARY E. KENT, B. A., Assistant Instructor in Biology.
HUGO W. KOEHLER, B. A., Instructor in German.
HEMAN BURR LEONARD, Ph. D., Instructor in Mathematics.
ELLEN M. PENNELL, Instructor in English.
MARY A. PERKINS, M. A., Instructor in English.
CHARLES ROY REID, B. S., Instructor in Mathematics.
ANGELINE WILLIAMS, B. A., Assistant Instructor in English Literature.

ORGANIZATION.

The College of Literature, Science, and the Arts includes the following departments:

Biology, Chemistry, Rhetoric and American Literature, English Language and Early English Literature, Modern English Literature, Economics and Sociology, Political Science, Education, Geology, German, Greek, History, Latin, Mathematics, Philosophy, Psychology, Physics and Romance Languages.

ADMISSION.

For full entrance to the Freshman Class fifteen units are required. Graduates of high schools who for any reason do not have fifteen units may enter as conditioned freshmen if they have satisfactorily completed at least thirteen units. All conditions must be made up as soon as possible after entrance.

The subjects required of all freshmen entering the College of Literature, Science, and the Arts are as follows:

English	3 units
Algebra	1½ units
Plane Geometry	1 unit
One Foreign Language	2 units
History	1 unit
Physics	1 unit
Elective	5½ units
Total	15 units

SPECIAL COURSES.

A number of courses specially preparatory to professional work are outlined by the various departments.

COURSE PREPARATORY TO MEDICINE.

Students expecting to study medicine should make Biology their major subject. The pre-medical studies offered by the department prepare the student to anticipate one year in the Medical School of the University of Oregon, and are also accepted by many of the standard Medical Colleges as the equivalent of one year's work of the regular four years' course. See announcement of courses, department of Biology.

COURSE PREPARATORY TO LAW.

Not only does any course leading to an A. B. degree give a great advantage to the student of law, as the requirements for admission to the best law schools indicate, but a college course arranged especially with the study of law in view can be made of great additional value. The student familiar with the political, economic, and social conditions and institutions that have determined the development of law will have a grasp of the principles of law, and will naturally pursue a method in future study that will make possible much higher efficiency in his profession. The departments of Economics and History offer the courses which constitute this basic study in preparation for law. The department of English offers the opportunity to gain a mastery of clear analytical expression of thought, peculiarly valuable to the lawyer.

COURSE PREPARATORY TO JOURNALISM.

The departments of English outline courses suited to the needs of those expecting to enter journalism. A liberal preparation for journalism includes work in many departments, but the general supervision rests naturally with the special English department of Rhetoric.

Composition, Literature, History, Economics, and the languages constitute a large part of the course.

SCHOOL OF COMMERCE.

The different branches of the public service like the civil and consular service, and the various lines of industrial and commercial pursuits, like banking, transportation, domestic and foreign

commerce, are rapidly aproximating the character of professions. To achieve the largest measure of success in these and meet the requirements of highest citizenship the principles of the social, physical, and mathematical sciences concerned must be possessed and applied. Modern industrial processes, methods, and organization are changing rapidly in magnitude, complexion, and social character in relation to public good. The historical, social, economic, political, and scientific studies and improvements in educational methods are fortunately keeping pace in their development with the requirements of the business world.

The courses in economics, politics and sociology apply to the actual business conditions and methods of today. They give just the preparation necessary for the mastery of the larger problems of the business man and go as far into matters of detail as can be done to advantage outside of actual business dealings. They give the young man the standpoint of the promoter of the public interest at the same time that he is securing the best insight into commercial and industrial affairs. He thus secures real cultural training as he is getting his bearings for his vocation.

The student wishing to take of the School of Commerce will make his major in Economics. The head of the department of Economics will outline his course as suited to his individual needs, and give him full information and advice.

GRADUATION.

The degree of Bachelor of Arts is conferred upon students of the College of Literature, Science, and the Arts, who have been in residence at least one academic year, and who have secured one hundred and twenty semester hours of credit, exclusive of physical training; but the degree of Bachelor of Science may be conferred upon students conforming to the requirements enumerated above and electing majors in Natural Science or Mathematics, provided that written request for this degree be filed with the Registrar of the University at least thirty days before the date upon which the degree is to be granted.

REQUIRED WORK.

A semester hour is the credit given for a course consisting of one recitation, lecture, or laboratory period a week for one semester of twenty weeks. Three hours shall constitute a laboratory period.

Major—Every student on entering the University must choose a major subject. The work required in the major subject (including thesis) shall not be less than twenty nor more than forty semester hours.

Thesis—Each candidate for the Baccalaureate degree shall present an approved graduating thesis in his major subject. Credit not to exceed four semester hours may be allowed for the preparation of the thesis.

Physical Training—In addition to the one hundred and twenty semester hours required for graduation, four semester hours shall be earned in physical training, two in the Freshman year and two in the Sophomore. In case students are for valid reasons excused from physical training, such students shall earn an equivalent amount of credit in other departments. Two hours in the gymnasium shall be equivalent to one semester hour.

Language—Every candidate for the degree of Bachelor of Arts shall secure during his Freshman and Sophomore years credit in languages other than English to the extent of 14, 16, 18, or 20 semester hours, which shall be taken in two year-courses.

Freshman Studies—The studies of the Freshman year, except as heretofore provided, shall be chosen from the following list of subjects, consisting of the courses offered by the several departments as Freshman work: Botany 1, Botany 2, Zoology 1, Zoology 2, Chemistry 1, Economics 1, Economics 2, Economics 3, Politics 1, Politics 2, Rhetoric and Composition 1, Rhetoric and Composition 1a, Rhetoric and Composition 1b, Rhetoric and Composition 1c, Rhetoric and Composition 1d, English Literature 1, English Literature 2, Early English Literature 1, Public Speaking 1, Geology 1, Greek 1 or 2, History 1, History 2, Latin 1, Latin 2, Mathematics 2, Mathematics 3, German, French, Spanish, Physics 1, Physics 1a, Physics 2, Psychology 1, Practical Problems in Ethics.

DEPARTMENTS OF INSTRUCTION

ANNOUNCEMENT OF COURSES FOR 1909-10

BIOLOGY.

Professor Sweetser.
Assistant Professor Bovard.
Miss Kent.

(*a*) Introductory Courses as a foundation for study in Zoology and Botany; (1) for students preparing for the study of Applied Science; (2) for students seeking general culture; (3) for students preparing for the study of Medicine.

(*b*) Intermediate Courses for students preparing for more extended study in Zoology, Medicine, Physiology, Embryology, Botany, Palæontology, Geology.

(*c*) Advanced courses for students in the Graduate School, and for those seeking specialized study and research as far as the resources of the department will permit.

(*d*) Premedical Courses for students intending to study Medicine, Dentistry, and Pharmacy. On the completion of this course students will be given one year's credit at the Medical School.

The following is an outline of the work usually followed in the Premedical Course:

Freshman year	Botany 1 and 2; Zoology 1 and 2.
Sophomore year	Botany 3; Zoology 3.
Junior year	Botany 6; Zoology 4 and 5.
Senior year	Botany 5; Zoology 6, 7, 8 and 13.

Students proposing to study Pharmacy should elect Zoology 1, Botany 1, 2, 3, 4, 5 and 6, and are strongly urged to take most all of the work in the course preparatory to Medicine and Dentistry.

Students should observe the sequence of courses as far as possible in choosing work in this department.

BOTANY.

1. *Phenogamic Botany.* Three lectures and one laboratory period. An introductory study of the Morphology, Physiology, and Ecology of the Flowering Plants, both Angiosperms and Gymnosperms. It is intended for beginners or for those who wish to get a comprehensive view of the subject. Open to all Freshmen. *Four hours, first semester.*

2. *Cryptogamic Botany and Taxonomy of Phenogams.* Three lectures and one laboratory period. Morphology, Physiology, and Ecology of the Flowerless Plants and classification of Phenogams and Cryptogams. This may be taken in sequence with Course 1, by those who have had Botany in high schools or independently. Open to Freshmen. *Four hours, second semester.*

3. *Structural Botany and Plant Histology.* One lecture and two laboratory periods. Prerequisites, Courses 1 and 2. Must precede Course 5. *Three hours, first semester.*

4. *Plant Physiology and Morphology.* One lecture, two laboratory periods. An advance course, and will include a more or less extended study of plant organs and vegetal functions. Prerequisites, Courses 1 and 2. *Three hours, second semester.*

5. *Medical Botany.* One lecture, two laboratory periods. A study of some of the typical medicinal plants, their structure, habitat and medicinal properties. Also a few powdered drugs and their adulterants. Prerequisites, Courses 1, 2 and 3. *Three hours, second semester.*

6. *Bacteriology.* One lecture, two laboratory periods. Laboratory technique and lectures, methods of staining, examining and cultivating bacteria. Advised for premedical students. (Not given in 1909-10.) *Three hours, both semesters.*

7. *Economic Botany.* Biological examination of water, bacteriology of milk foods, etc. *Hours to be arranged.*

8. *Systematic Botany.* (a) Taxonomy of Cryptogams, Mycology, and Algology. (b) Higher Cryptogams and Phenogams. *Hours to be arranged.*

9. *General Biology.* Two lectures. Devoted to the study of plant and animal structure and some of the fundamental principles of life. Discussion of evolution from biological standpoint. *Two hours, each semester.*

10. *Research.* Thesis and other investigations.

11. *Sanitary Hygiene.* The economy of the microbes, pure water, pure air, pure milk and pure food. Lectures. Open to all. (Not given in 1909-10.) *Two hours, second semester.*

ZOOLOGY.

1. *Invertebrate Zoology. One lecture and two laboratory* periods. A study of a few types of invertebrates with special reference to the correlation of structure and function. Prerequisite to all higher courses in this department. Open to all Freshmen. *Three hours, first semester.*

2. *Vertebrate Zoology.* One lecture and two laboratory periods. A continuation of Course 2, using vertebrate types. Prerequisite to all higher courses in this department. Open to all Freshmen. *Three hours, second semester.*

3. *Mammalian Anatomy.* One lecture and three laboratory periods. A comparative study of the vertebrate skeleton with the dissection of a typical mammal. Prerequisite, Courses 1 and 2. *Four hours, both semesters.*

4. *Histology. The Cell.* One lecture and two laboratory periods. A detailed study of the cell and the various tissues that are found in the body. Prerequisites, Courses 1 and 2. This course should precede Course 5. (Not given 1909-10.) *Three hours, first semester.*

5. *Histology. Microscopical Anatomy.* One lecture and two laboratory periods. The microscopical anatomy of the various organs of the body. Prerequisites, Courses 1 and 2. The course should be preceded by Course 4. (Not given 1909-10.) *Three hours, second semester.*

6. *Vertebrate Embryology.* Two lectures and two laboratory periods. The development of the chick and a comparison with some of the other vertebrate types. Prerequisite, Courses 1 and 2. *Four hours, first semester.*

7. *Physiology.* Three lectures and one laboratory period. Blood Circulation, Respiration, Muscle, Nerve, Reproduction, and the Nervous System. Prerequisites, Courses 3, 4 and 5, Organic Chemistry, and one year of Physics. *Four hours, first semester.*

8. *Physiology.* Three lectures and one laboratory period. Digestion, Metabolism, Dietetics, Excretion, and Animal Heat. Pre-

requisites, Courses 3, 4 and 5, Organic Chemistry and at least a year in Physics. ***Four hours, second semester.***

9. *Seminar.* Discussion of current literature.

One hour, both semesters.

10. *Research Laboratory.* Original work on some Zoological problem by the student under the guidance of the instructor. Credit to be based on the character of the work.

Hours to be arranged.

11. *Elementary Physiology.* Lectures and recitations. Course open to all students. Study of the anatomy and functions of the body. (Not to be given 1909-10.) *Two hours, first semester.*

12. *Nature Study.* Two lectures and one laboratory period. The lectures and the assigned readings cover the History of Zoology, the Distribution of Animals, and the Life History of some of the most important species. The laboratory work consists in the examination of the local fauna, with special emphasis on the Life Histories of these forms. Frequent excursions will be made to study birds and other animals. (Not to be given during 1909-10.) *Three hours, second semester.*

13. *Osteology.* One lecture and one laboratory period. A study of Human Osteology. Required of all premedical students during the Senior or Junior years. *Two hours, second semester.*

EQUIPMENT.

The Biological department is well equipped for work. It has a large lecture room and four well-lighted laboratories. The equipment of the department includes microscopes, models and apparatus for Animal and Plant Physiology. It is the aim of the department to keep on hand a good supply of all the ordinary working tools suitable for courses in Botany, Zoology, Bacteriology, and Physiology. An attempt will be made to supply special apparatus as the occasion may demand.

The museum contains a fine series of mounted and unmounted birds and mammals, to illustrate different groups; a collection of Oregon reptiles, made by Mr. J. R. Wetherbee; a series of fish, mostly salmonidæ from the Columbia River, donated by the United States Government; a collection of food fishes of the Oregon coast, made by Mr. B. J. Bretherton, of Newport, Oregon, and presented to the University.

Mr. Thomas Howell has donated his large herbarium, containing many type species, to the University. This collection will be available for students in Systematic Botany.

The Leiberg collection, of 15,000 sheets of specimens, mostly from Oregon and Idaho, has just been given to the University by Mr. Leiberg. They are for the most part duplicates of specimens filed with the government, and are extremely valuable.

LABORATORY FEES IN BOTANY AND ZOOLOGY.

A deposit of $5 is required for each laboratory course, with the exception of Botany I, Botany II, and Botany VIII, and Zoology I, and Zoology II, which are $2 each. Additional expense for supplies, if any, is met by the purchase of coupons. The usual expense to the student in advanced courses is from $2 to $4.

CHEMISTRY.

Professor Stafford.
Assistant Professor Shinn.
Mr. Currie.

In the courses outlined below especial attention is given to the matter of making the preparation for teaching and research, chemical technology, medicine, mineralogy, metallurgy, and chemical engineering as complete and practical as possible. The arrangement is such that progress in chemical training for any of these lines of work shall be logical and continuous from the very first. At the same time the value of chemistry as a purely educational factor is kept in view, and no effort is spared to make this study conform to the requirements of such. For training in habits of exactitude, for gaining a helpful insight into the methods of scientific thought and procedure, and for practice in the interpretation of evidence, chemistry holds a high position among the studies offered in college or university.

Students electing Chemistry as a major will in general be expected to take Course 1 during the Freshman year, Course 3 in the Sophomore year, and Courses 5 and 10 during the Junior year. The Senior year may be devoted to whatever courses the department may offer during that year which will most nearly meet the demands of the special line of work to be taken up after graduation. Prerequisites and closely allied work during the college course include

German, French, Mathematics, Physics, Mineralogy, Biology, etc., depending again upon the work for which the student is making preparation.

1. *General Chemistry*—This course or a satisfactory equivalent is prerequisite for all other work in this department. Its purpose is to give a general introduction to the science, emphasizing, incidentally, many practical applications of Chemistry in the affairs of every-day life, manufactures, metallurgy, etc. Three lectures are given each week for the year in which the subject material of the course is illustrated by elaborate lecture experiments, while numerous specimens, models, charts, lantern slides, etc., serve to give the subject a living interest by bringing the students as nearly as possible into contact with its practical aspects. Three hours of laboratory work per week for the year, with the ample facilities for laboratory work that this department now offers, affords a good opportunity for first-hand contact with the experimental truths of chemistry and for training in laboratory methods. Lectures on Monday, Tuesday and Wednesday at 11; laboratory periods 1 to 4, Thursday or Friday. *Four hours, both semesters.*

3. *Analytical Chemistry.* A course in qualitative analysis embracing the systematic separation and detection of the common inorganic radicals, followed by a course in quantitative analysis consisting of exercises illustrating the important methods of gravimetric and volumetric determinations. One lecture or recitation per week at an hour to be arranged. Laboratory open to students in this course 1 to 5, Monday, Tuesday and Wednesday.
Four hours, both semesters.

5. *Organic Chemistry.* An introduction to the chemistry of the hydrocarbons and their derivatives. The subject matter of this course is a necessity to the advanced student of chemistry, and to students of medicine, pharmacy, biology, and kindred subjects. The work is based largely upon "Organic Chemistry"—Perkin and Kipping. Two lectures a week for the year. Laboratory requirements are the satisfactory completion of twenty-five preparations to be assigned by the instructor.
Three hours, both semesters.

10. *Advanced Inorganic Chemistry.* A lecture course in which an introductory study of the law of mass action, the phase rule, the theory of electrolytic dissociation, Avogadro's hypothesis, and

similar helpful conceptions is made in connection with their practical applications. The work is based upon "The Principles of Inorganic Chemistry"—Ostwald. Three lectures per week through the year. *Three hours, both semesters.*

12. *Advanced Analytical Chemistry.* A course designed for those who wish to perfect themselves in general analytical methods or to secure practice in the analytical chemistry of special lines of work. Enrollment may be made for from two to twelve semester hours. *Both semesters.*

14. *Industrial Chemistry.* Typical industries are studied for the purpose of bringing out the technique of applied chemistry as well as to give specific information regarding the cases discussed. In 1907-08 the questions discussed were: Fuels, Cements, Lime, Plaster, Alkalis, Acids, Coal Gas, Producer Gas, Ammonia, Electric Furnaces, and their produces, and Electro-metallurgy. Lectures, collateral reading, and reports. *Two hours, both semesters.*

16. *Physical Chemistry.* The elements of this subject. Two lectures and one three-hour period for laboratory work or calculations. *Three hours, both semesters.*

LABORATORY FEES AND PURCHASE OF MATERIAL.

The efficiency of a laboratory course depends to a very great extent upon having at hand a sufficient supply of the proper materials for the work outlined by the instructor. These materials correspond in a way to the pencils, paper, text-books, etc., required in other courses to facilitate the work of instruction.

The selection of materials is itself a task demanding considerable experience if the best are to be secured, and since, moreover, the remoteness of the University from adequate sources of such supplies make their purchase in a small way a matter entirely out of the question, it becomes a necessity for the department to carry in addition to its own assortment of chemicals and apparatus for general and lecture purposes an amount sufficient for the use of its students in all of the courses offered.

In conducting this phase of departmental affairs, the aim is to make it strictly a business proposition, the carrying out of which demands a rigid adherence to the following details:

A deposit of ten dollars for each laboratory course in which enrollment is made must be placed with the University Steward

to stand as a security for the *unreturnable* portions of the outfits loaned at the beginning of laboratory work, and as a fund from which may be deducted a proportionate share of the cost of material supplied to the course in a general way. This deposit, as a rule, does not nearly cover the entire cost of the outfits, and the transaction is made with the understanding that where the breakage and other losses are excessive the student is to make good whatever the amount may be over and above the deposit. The University reserves the right in all cases to withhold credit for work done until laboratory accounts are fully settled.

Loans of additional material are made from time to time as may be necessary, the charges for which are punched from coupons issued in sums of one dollar by the University Steward. Such additional material need not necessarily be obtained from the store room, however, but from wherever it may be desired so long as it is available when needed, and is adapted in all respects to the course requirements both as to quality and quantity; but in order to avoid the accumulation of heterogeneous material in the storeroom, the department will not receive any article for credit at the end of a course that was not originally dispensed from the regular stock. Since a large part of the apparatus carried in the storeroom is imported free of duty for use in the University laboratories only, the department does not relinquish title to the material taken out, but considers the transaction as a loan, with the understanding that unused material is to be returned for credit in all cases.

All returnable material, as well as unused portions of coupons, are redeemable at the close of the laboratory work in any course at their charged value, and cash balances are collected or returned as the case may be.

The approximate cost of the laboratory courses outlined above is as follows: General Chemistry, $10; Analytical Chemistry, $15 to $20; Organic Chemistry, $15 to $20. In addition to the ten dollar deposit each student is required to purchase one or more of the one dollar coupons at the time enrollment is made.

It is especially to be noted that these deposits are to be made preliminary to enrollment in laboratory courses. There should therefore be due provision on the part of the student for the prompt payment of the amounts in order that no hardship may be incurred by the delay that otherwise must follow.

ECONOMICS, SOCIOLOGY, AND POLITICAL SCIENCE.

Professor Young.
Professor Barnett.
Dr. Gilbert.

The courses offered by this department are designed to meet the needs of students who intend to enter the public service, business, the professions of law, journalism, the ministry, or who are preparing to teach in this field or in that of history or literature. Students planning to follow engineering or other practical pursuits who wish to round out their preparation for life on the business, social, and civic sides, will find courses especially adapted to their needs. Preparation for those higher and wider responsibilities of citizenship that should be assumed by every university man or woman is provided for in special courses. (See courses No. 16 and 17.)

The work of this department has thus the following distinct but related aims:

1. To provide in co-operation with other departments the regular preliminary university instruction for several practical and professional pursuits.

2. To supplement the work of other departments in providing the lines of study necessary in the training for efficient citizenship.

3. To assist and encourage the development of these sciences and to stimulate a larger utilization of their principles in the organization and affairs of this commonwealth. (See "Research and Thesis Course," No. 19.)

Special attention is called to the courses of the department of History, which are naturally preliminary to thorough work in this department; to the general course in biology for concepts helpful in the study of sociology; and to related courses in philosophy and ethics as well as the journalistic courses in the department of Rhetoric and English.

Open to Freshmen at the beginning of the University year.

Economics: Courses 1 and 2, and if student has had requisite preparation, Course 3.

Political Science: Courses 1 and 2.

ECONOMICS AND SOCIOLOGY.

1. *Economic and Social History of England.* This course is introduced by a sketch of the social and industrial evolution of mankind to the stage represented by the inhabitants of England at the time of the Saxon invasion. The nature of the social and industrial organization of the English people is traced through its successive modifications down to the present time, and the influences affecting it identified. Industrial development on the continent is at each stage brought into comparison with that of the English people. Text-book, assigned readings and exercises.

Two hours, first semester.

2. *The Economic and Social History of the United States.* The development of the characteristic phase of agriculture, industry, and commerce in the United States is studied and the interaction between this economic development and the political and social institutions noted. *Two hours, second semester.*

3. *The Principles of Economics.* The principles that underlie the different economic relations and institutions are developed and applied. The elements in the more important economic problems are pointed out. Text-book, assigned readings and exercises.

Three hours, both semesters.

4. *The Elements of Sociology.* This course is taken up with an inquiry into the nature of society, the course of social evolution, the factors of social change and the causes of social progress.

Two hours, both semesters.

5. *The Labor Problem.* Topics considered are: The rise of the factory system, factory legislation, the growth of trade unions, and changes in the law in respect to them, the policies of trade unions, strikes, lockouts, arbitration and conciliation, proposed solutions of the labor problem, and the future of labor in the United States. *Two hours, first semester.*

11. *Public Finance.* It is the aim of this course to ascertain principles of public expenditure, budgetary legislation, financial organization, public revenue and public indebtedness. These principles will then be applied to concrete problems connected with corporation, railway, mortgage and insurance taxation, and double taxation, and the personal property and inheritance taxes.

Three hours, both semesters.

12. *Systems of Finance.* The history, organization, and correlation of the features of a national and of a commonwealth system of finance with special reference to Oregon experience and conditions. *Two hours, first semester.*

13. *Money, Banking, and Economic Crises.* The principles of Economics are applied to modern monetary systems with the view of developing policies of improvement. The conditions attending the development of industrial and monetary crises are analyzed. *Two hours, both semesters.*

14. *Corporation Finance, Securities and Accounting.* A study of the methods of financiering employed in large corporations, with their systems of organization and accounting. *Two hours, second semester.*

15. *History of Economic Thought.* The interactions between the ideas pertaining to economic interests and the conditions of economic life, also the relations between the economic thought and the philosophical speculations of successive epochs are traced. The existing schools of economic thought are defined. *Three hours, first semester.*

16. *Distribution of Wealth.* An historical and comparative study of the theories of leading economists. *Three hours, second semester.*

17. *Railway Transportation.* A study of the economic, social and political problems connected with the railroad as a factor in modern life. *Four hours, first semester.*

18. *Pools, Trusts, and Combinations.* An inductive study of the tendencies and forces in modern industrial development. *Four hours, second semester.*

19. *Economic Research and Senior Theses.* Topics for research relating to problems of legislation and administration in Oregon. All seniors taking majors in this department will be guided in the preparation of their theses. *Two hours, both semesters.*

20. *Modern Sociological Thoughts.* A survey of the leading sociological writers, and a synthesis of their systems. *Three hours, both semesters.*

22. *Psychological Sociology.* The reciprocal relations between psychology and sociology are traced. *Two hours, both semesters.*

POLITICAL SCIENCE.

Professor Barnett.

1. *American Government.* A general study of the government of the United States, federal, state and local, with special attention to practical operation and contemporary reforms. Prerequisite to all other courses in political science. Monday, Tuesday and Friday, at 10. *Three hours, first semester.*

2. *Government of England.* The organization and operation of the government of England. Monday, Tuesday and Friday, at 10. *Three hours, second semester.*

3. *Governments of Continental Europe.* The organization and operation of the governments of France, Italy, Germany, Austria and Switzerland. Monday, Wednesday and Friday, at 9. *Three hours, first semester.*

4. *Elementary Law.* A very brief introduction to the theory of law and to the history of English and American law, followed by a general consideration of the principal branches of the common law. Practice in the use of cases. Monday, Wednesday and Friday, at 9. *Three hours, second semester.*

5. *Constitutional Law.* A study of the federal constitution as interpreted by the courts. Chiefly a discussion of leading cases. It is desirable that this course be preceded by Political Science 4. Monday, Wednesday and Friday, at 8. *Three hours, first semester.*

6. *International Law.* The general principles of the law governing the relations between states. It is desirable that this course be preceded by Political Science 4 and History 4. Monday, Wednesday and Friday, at 8. *Three hours, second semester.*

7. *Law of Officers.* The law of public officers, including extraordinary legal remedies. Chiefly a discussion of leading cases. Open to students credited with at least one course in law. Tuesday and Thursday, at 8. (Omitted 1909-10.) *Two hours, both semesters.*

8. *Municipal Government.* The organization and operation of municipal government in England, France, Prussia, and the United States. Open to Juniors and Seniors. Tuesday and Thursday, at 8. *Two hours, second semester.*

9. *Problems of Government.* A study of some of the more important contemporary problems of American government, including a consideration of the initiative and referendum and the recall, minority representation, nominating systems, and civil service reforms. Open to advanced students of Political Science. Tuesday and Thursday, at 8. *Two hours, first semester.*

10. *Political Theory.* A very brief study of the history of political theory, and a more extensive study of modern political theory. Open to advanced students of Political Science. Tuesday and Thursday, at 8. (Omitted 1909-10.)

Two hours, second semester.

ENGLISH.

Six objects are contemplated in the following courses:

1. An ability to appreciate, enjoy, and criticise justly, the best in English literature.

2. A scientific knowledge of the origin and development of English literature in general, and of special periods in particular.

3. Proficiency in English composition, including skill in organization of material.

4. A scientific knowledge of the laws of written and spoken discourse.

5. Ability to apply the methods of philological science to the English language.

6. The ability to appear before an audience with composure, and speak so as to be heard, to be understood, and to be believed.

All students, regular and special, who take up the work in these courses, must present fifteen hours of entrance English. The entrance English requirements will conform to the state high school course. Further, every student, at the beginning of his Freshman year, shall elect either (1) to take an examination testing facility and accuracy in the use of English, or (2) to take a course of at least two semester hours (1a or 1b) in English, for which college credit will be given. (If the student fail in the test examination, a freshman course of, at least, two semester hours will be required. A passing mark in the test examination leaves the student free from required English and eligible to elect courses under conditions specified. A student who attains grade A in the

test examination is eligible to enter Courses 2 and 3 or 4. A student who passes the test examination with grades B or C must take a freshman course to be eligible to do sophomore work.)

Under Rhetoric, Criticism, and English Composition, 1a or 1b is required of all freshmen in all courses who do not pass a test examination, excepting such freshmen as may desire to elect either 1 or 1c. Course 2 is open to those who have attained grade A in the test examination. Course 3 is open to those who have taken or are taking Course 2.

All students entering advanced college classes must be accredited with English done elsewhere or comply with entrance requirements here, through examination or work in class.

RHETORIC AND AMERICAN LITERATURE.

Professor Carson.
Miss Burgess.
Miss Perkins.
Mrs. Pennell.

Students who elect their major in the Department of Rhetoric and American Literature are expected to take in their freshman year: 1. English Prose Style, 1. Outlines of Modern English Literature, or 1. Beginnings of English Literature. 1. Public Speaking; in the sophomore year: 2. Rhetoric and Criticism, 3, Criticism, Exposition and Argument, 2. Public Speaking, one course in Literature to be selected according to plans of the student, and one course in American History. The remaining hours will be filled from other departments.

RHETORIC, CRITICISM, AND ENGLISH COMPOSITION.

The courses in English Composition comprise papers under description, narration, exposition, and criticism, followed by forensics, analysis of masterpieces of argumentative composition, short stories and orations. In the junior and senior courses in orations, lectures are given concerning the differences between spoken and written discourse, the charactertistics of the oration, the nature and purposes of persuasion, the laws of good prose. Courses 1, 1a, 1c are open to freshmen who enter at the beginning of the second semester.

Courses 2, 3, 4 and 5, in Rhetoric and English Composition, also Courses 1, 2 and 3, in Public Speaking, are prerequisite for the Junior Exhibition in May of the junior year.

1. *English Prose Style.* A three-hour course in English composition, open to all freshmen. A study of the elements of effective prose with analysis of selected masterpieces and constant training in writing. Text-books: Newcomer's Elements of Rhetoric and Carson's English Composition. Miss Burgess.

Three hours, both semesters.

1a. *English Composition.* Elements and principles of effective composition in English prose. Three methods are used: (1) the analysis of several masterpieces of literature; (2) constant practice in exercises in class and outside under grammatical rules and requirements; (3) the preparation of six short themes. Text-books: Meiklejohn's Art of Writing English and Carson's English Composition. Open to all freshmen in all courses and prescribed for those not passing the test examination in English, who do not elect 1 or 1c. Mrs. Pennell. *One hour, both semesters.*

1b. *English Composition.* The course aims: (a) to secure knowledge of the fundamental principles of composition; (b) to secure skill in the construction of sentences and paragraphs and in outlining. These subjects are reached through text-books, lectures, analysis and construction work. Six themes are required. Text-book: Scott and Denny's Paragraph Writing. Open to freshmen with special preparation. Miss Perkins.

One hour, both semesters.

1c. *English Composition.* A two-hour course open to all freshmen; intended especially for freshmen who desire more than 1a or 1b. The first half of the year is given to the study of exposition; the last half to argument. The work is carried on through text-books, lectures, exercises, essays, and analysis of selections from master writers on science. Six themes are required. Text-books: Newcomer's Elements of Rhetoric and Nutter, Hersey and Greenough's Specimens of Prose Composition. Miss Burgess, Miss Perkins and Mrs. Pennell. *Two hours, both semesters.*

2. *Rhetoric and Criticism.* A three-hour course open to students who have passed in a freshman course, or who have attained grade A in the test examination. A good deal of written work is done

to develop accuracy, originality, and creative power. The first half of the year is given to the study of style, and exercises are written giving special attention to diction, figures, and structure of sentences and paragraphs. The second half of the year is given to invention. Exercises are written illustrating the essentials of description, narration, exposition, and the different forms of argument. Text-books: Genung's The Working Principles of Rhetoric and Genung's Rhetorical Analysis. Professor Carson.

3. *Criticism, Exposition, and Argument.* English Composition. A one-hour course open to those who have taken or are taking Course 2. This course is closely connected with Course 2, and must be taken with it unless by the consent of the instructor. Constant practice in writing consists of (1) exercises based on the text-book, written in the classroom and outside; and (2) the preparation of six themes accompanied by outlines. The text-book: Genung's The Working Principles of Rhetoric. Professor Carson and Miss Perkins. *One hour, both semesters.*

4. *English Composition.* A two-hour course open to students not taking Course 2, who have passed a freshman course or the test examination with Grade A. This course will be adapted to the needs of class. Text-book: Wendell's English Composition. Miss Burgess. *Two hours, both semesters.*

5. *Argument and Persuasion.* Open to all who have passed Courses 2 and 3. This course includes: (1) a study of the principles of argumentation and persuasion, as set forth in the master arguments and orations; (2) the drawing of two briefs from masterpieces of argumentative composition and the analysis of two orations in class; (3) the construction of three arguments, one description or narration, and one paper of oratorical nature, each preceded by a brief; (4) lectures and conferences. Text-book: Baker's Specimens of Argumentation. Professor Carson.

Two hours, both semesters.

(One hour in lectures, one hour in conferences and assignments.)

6. *Argumentative Composition.* This two-hour course emphasizes analysis, evidence, and the processes of debate and consists of: (1) the drawing of two briefs from masterpieces of argumentative composition; (2) the study of principles and methods under analysis of questions; (3) the study of nature and kinds of evidence; (4)

the production of three forensics, each preceded by a brief. Text-books: Baker's Forms of Public Address; Baker's Specimens of Argumentation. Open in the first semester to juniors and seniors only except with consent of instructor. Prerequisite, Courses 2 and 3; 6 to be followed by a supplementary course 7. Professor Carson. *Two hours, first semester.*

7. *Persuasion.* This two-hour course is supplementary to 6 and includes: (1) a study of the principles of argumentation and persuasion, as set forth in master orations; (2) the analysis of two orations in class; (3) the construction of two orations or papers of oratorical nature, each preceded by a brief; (4) lectures and conferences. Text-book: Same as in Course 6. Open to all who have passed 6. Professor Carson. *Two hours, second semester.*

8. *Exposition.* A study of the principles of exposition as found in Coleridge, Matthew Arnold, Huxley, Darwin, Bagehot; construction of practical exercises and three essays. Open to those who have passed or are taking Courses 2 and 3. Text: Perry's Exposition. Miss Burgess.

Two hours, either first or second semester.

9. *Advanced Composition.* The Short Story. This course is open to juniors and seniors, and sophomores with the consent of the instructor. It includes: (1) a study of narration, description, also character, plot, and dialogue, as exhibited in the short story; (2) analysis of classic prose in three forms; (3) construction of six papers illustrating these forms. Professor Carson.

Two hours, both semesters.

(One hour in lectures, one hour in conferences and assignments.)

10. *Forensics and Orations.* Open only to seniors who have passed Course 5 or Course 6, first semester, and 7, second semester, with credit. Course 10 consists of (1) argumentative composition; (2) the analysis of master orations; (3) lectures, conferences, and criticisms of briefs, forensics, and orations; (4) the writing of two forensics and two orations, each preceded by a brief. Professor Carson. *Two hours, both semesters.*

(One hour in lectures, one hour in conferences and assignments.)

11. *Journalism.* Development and functions of the American newspaper. Study of the methods of journalism as set forth in a few great papers of our day and country. Practice in various forms

of newspaper writing. Text-book: Shuman's Practical Journalism. Prerequisite, at least junior standing. Professor Carson.

Two hours, both semesters.

12. *English Literary Criticism.* Lectures on the principles of criticism; a survey of literary criticism in England since the sixteenth century; special attention given to the nineteenth century, including Wordsworth, Coleridge, Hazlitt, Lamb, Arnold, Pater, Lowell. Assigned readings and reports. Professor Carson.

Two hours, both semesters.

13. *Argumentation.* A two-hour course open to students credited in Courses 2 and 3. The course considers analysis of questions for argument, study and organization of evidence, methods of presentation. Text: Baker's revised edition The Principles of Argumentation. *Two hours, both semesters.*

14. *Daily Themes.* Open to a limited number who have passed Course 5 or equivalent with credit. *One hour, both semesters.*

15. *Verse Composition.* After a few introductory lectures on the principles of English versification, the student will begin fortnightly practice in composition, with regular appointments for consultation and criticism. The purpose of this course is partly to familiarize the student with the chief varieties of English verse and stanza (heroic verse, the sonnet, etc.), and partly to give him added command of language. Open to a limited number of students with consent of the department. Professor Carson.

One hour, both semesters.

16. *Oratorical Themes.* Lectures on the fundamentals of oratory. Analysis of masterpieces. Preparation of original orations. Intended as a special course for students who wish to enter oratorical contests. Professor Carson. *Two hours, first semester.*

AMERICAN LITERATURE.

17. *Outlines of American Literature.* This course gives an outline of American literary history and the reading and discussion of important works in prose and verse. Authors read: Franklin, Cooper, Irving, Bryant, Longfellow, Emerson, Hawthorne, Holmes, Lowell, Whittier. First semester, to about 1850. Second semester, from about 1850. Open to all who have taken or are taking Course 1 in Modern English Literature or Course 1 in Beginnings of English Literature. Miss Burgess.

Two hours, both semesters.

18. *American Literature.* A course open to juniors and seniors. The environments, works, and influence of a few authors are studied through lectures, reports, and readings; also the characteristic writers in the most important sections of our country. Professor Carson. *Two hours, both semesters.*

19. *American Literary Criticism.* This course gives an outline of American literary criticism, with a brief consideration of the theories and methods of a few American critics. One hour. Professor Carson.

FOR GRADUATES AND ADVANCED UNDERGRADUATES.

21. *Seminar in the Critical Study and Construction of the Short Story.* The structure of the short story will be analyzed in comparison with that of the novel and the drama. Themes, motives, art, in development of character, plot, and environment will be discussed. This course will require the construction of a certain number of short stories, with practice in working out details. Open to graduates, seniors, and special students in English who are properly fitted. Professor Carson. *Two hours, both semesters.*

22. *Seminar in Rhetorical Methods.* Two-hour sessions each week. This course is intended for graduates who intend to teach English, or for teachers of English. Prerequisites are Courses 1, 2 and 3, or equivalents. The aim of this course is two-fold: To discuss important questions in the theory of rhetoric; to outline modern methods of teaching rhetoric and English composition in schools and colleges. Primarily for graduates. Not given in 1909-10.

23. *Modern English Grammar.* A course for teachers of English. Open to students who have taken Courses 2 and 3. Mrs. Pennell. *Two hours, both semesters.*

24. *Seminar in Theory, History, and Practice of Criticism.* This course will consider the critical theories of Plato, Aristotle, Horace, Boileau, Lessing, and also English masterpieces of literary and applied criticism from Sidney to Arnold. Open to graduates. Not given in 1909-10.

25. *Outline History* of the beginning of English Prose. A brief consideration of Caxton, Malory, Tyndale, and history of the English version of the Bible to 1611, with a discussion of the influence of the Bible on English prose.

One hour, both semesters.

EQUIPMENT.

This department is very well equipped in English dictionaries and special works for reference in Rhetoric, English Composition, and Criticism. It is securing a good working library in American literature. It is receiving the great newspapers of this country and a few from other countries. It has also some of the best standards in typography.

ENGLISH LANGUAGE AND EARLY ENGLISH LITERATURE.

Professor Glen.

Students choosing major work in this department will usually be required to pursue the following courses in the order stated: Freshman year, Course 1; sophomore year, Courses 2, 6 and 7; junior year, Course 3; senior year, Course 4. This contemplates a minimum of twenty-two hours' work for a major. Additional work will be prescribed as the needs of the individual student may demand.

1. *Beginnings of English Literature.* The first semester will cover the field of Anglo-Saxon literary development, emphasizing the characteristics of the heathen, transitional and Christian epochs in poetry and the causes and purposes of the later period of prose.

The second semester will continue the work from the Norman Conquest to Spenser. Special mention will be made of: Results of the Norman Conquest on English literature, religious poetry, folk poetry, legend, tale, tract, early stages of drama, Chaucer and his imitators, Wyatt, Surrey, and Skelton. The work will consist of lectures, recitations and reports. The course is required before entrance upon any subsequent literary courses in this department. Regular freshman course. *Two hours, both semesters.*

2. *Chaucer.* Biography. Textual and critical studies in the Canterbury Tales and in minor poems. Topics assigned for individual study and reports: Sources of poems, content, and relationship. Given as sophomore work. May be taken by any who have had prerequisite Course 1. *Two hours, one semester.*

3. *Scottish Poets.* A study of early Scottish poetry. Poems of Bruce, Barbour, Henryson and The Tail of Rauf Coilyear will be read and discussed as representative of the later expression of Northumbrian poetry. *Two hours, one semester.*

11. *Anglo-Saxon.* Grammar and translation of select passages in prose and poetry. The relationship between Anglo-Saxon and cognate continental languages will be carefully studied and traced. A knowledge of German will be extremely helpful.

Three hours, both semesters.

12. *Anglo-Saxon. Beowulf.* A textual and critical study of the great epic. Theories of composition and authorship. Historical and literary value. Christian and heathen elements.

Three hours, both semesters.

13. *History of the English Language.* A lecture course in the growth and development of the language, including discussions of the different language families, characteristics, and relationship. Consonant shifts. Teutonic group characteristics. Native and foreign linguistic elements. *Two hours, first semester.*

14. *English Phonology.* Principles of Phonetics. Development of English vowel and consonant systems.

Two hours, second semester.

21. *Anglo-Saxon.* Reading from Cynewulf, signed poems and attributed poems. Alfred, Saxon Chronicles, Aelfric, alliterative and prose homilies. *Two hours, both semesters.*

22. *History of English Epic and Lyric Poetry.* This course is intended to serve as an introduction to the field of epic and lyric poetry. With Course 23 it aims to cover the three great lines of development in the English verse. *Two hours, first semester.*

23. *History of English Drama.* This course will be introduced by a survey of the greater epochs of the drama in literary history, after which it will proceed to the discussion of the beginnings and subsequent development of the drama in English.

24. *Metrical Romances of Early English Literature.* Form and contents. Early materials and significance. Origins. A graduate course. *Two hours, one semester.*

PUBLIC SPEAKING.

Professor Glen.
Mr. Eliot.

1. *Regular Freshman Course.* Fundamental articulation, emphasis, inflection, and elementary work in vocalization and gesture.
One hour, both semesters.

2. *Sophomore Orations.* Open to all who have taken 1. A more detailed study of interpretation and expression. Advanced work in vocalization and gesture. Public work.
One hour, both semesters.

3. *Oratorical Forms.* Introduction to the study of oratorical forms and delivery, characteristics of oratorical style. Divisions of oratorical style, methods of cultivation of best style. What to avoid in oratory. Continuation of work in vocalization. Public junior orations. *One hour, both semesters.*

4. *Famous Orations and Orators.* Private rehearsals. Class drill. Competition for Failing and Beekman prizes. First semester, American orators. Second semester, British orators.
One hour, both semesters.

EQUIPMENT.

The library facilities for study in this department have been sufficient thus far for the general needs of the work. A select collection of complete editions by the best known and most scholarly editors of English literary productions is being secured. The library is quite full of material for the study of old lyrics, and a beginning has been made in collecting material for the study of courses, such as "Morte D'Arthur," "Orlando Furioso," "Amadis de Gaul." The literature of criticism and philology is represented by such names as Ten Brink, Brook, Gosse, Earle, Sweet, Skeat, Whitney, Bright, Bosworth-Toller, Kluge, Cook, Emerson, and Mayhew. A nearly complete set of the publications of the Scottish Text Society and a complete set of Early English Text Society publications have been added recently.

MODERN ENGLISH LITERATURE.

Professor Howe.
Miss Williams.
Miss Hair.

More courses are given in the department than any one student is permitted to take, and opportunity is offered to map out work in more than one field. All students wishing to make English Literature a major are therefore requested to consult the head of the department.

1. *Outlines of Modern English Literature.* From Edmund Spenser to the present. A laboratory course, in which the student will read the literature, instead of reading about it. The aim is to lead the student, as far as possible, to gain his knowledge of each epoch from his own reading of selected works of representative authors. This work is supplemented by lectures and interpretative readings. Professor Howe.

Three hours, both semesters.

2. *Wordsworth.* A study of the best known poems of the author, in such order as to illustrate the power, scope, and characteristic beauty of the author. Professor Howe.

Two hours, first semester.

3. *William Morris.* A study of the life and writings, both prose and verse, sufficient to give the student a fair comprehension of the meaning and importance of Morris. Professor Howe.

Two hours, second semester.

(Courses 2 and 3 are given in natural sequence, but may be taken separately. They are open to freshmen, and required in sophomore year of such students taking a major in the department as did not take them in freshman year.)

4. *Shelley.* A study of the more important works in their order as written, and elucidated by some study of Shelley's life, illustrative of his system of thought, and significance in the literature. Miss Williams. *Three hours, first semester.*

5. *Browning.* A study of the Ring and the Book, followed by systematic examination of a number of the important short poems. The aim is first, to give the student facility in reading Browning

understandingly, and secondly, to acquaint him with the range of the author's thought and sympathies. Miss Williams,

Three hours, second semester.

(Courses 4 and 5 will be taken in sophomore year by students with a major in the department. In conjunction with Courses 2 and 3 they lay a solid basis of knowledge prerequisite to Courses 6 and 7, which may be taken at any time after completing the four courses last preceding, but are properly senior courses.)

6. *The Georgian Poets.* Wordsworth, Coleridge, Southey, Scott, Byron, Shelley, Keats, Hunt, Hood, Landor. Miss Williams.

Three hours, first semester

7. *The Victorian Poets.* Browning, Barrett-Browning, Tennyson, Rossetti, William Morris, Swinburne, Matthew Arnold, DeVere. Miss Williams. *Three hours, second semester.*

8. *Edmund Spenser.* A study of the Shepherd's Calendar and the later books of the Færie Queen. Professor Howe.

Two hours, first semester.

9. *Milton.* Paradise Lost entire, Paradise Regained, and Samson Agonistes. Professor Howe. *Two hours, second semester.*

10. *Shakespeare.* The comedies and historical plays. Professor Howe. *Three hours, first semester.*

11. *Shakespeare.* The tragedies. Not given during 1908-09.

Three hours, second semester.

(Courses 10 and 11 will hereafter constitute a prescribed prerequisite to Course 23, in the critical study of Shakespeare.)

12. *The Contemporaries of Shakespeare.* The important Elizabethan and Jacobean dramatists. Professor Howe.

Two hours, both semesters.

13. *English Prose Writers,* (not novelists), of the nineteenth century. Ruskin will be read in class, with Matthew Arnold, Newman, etc., as collateral reading. Professor Howe.

Three hours, first semester.

14. *English Prose Writers,* (not novelists), of the nineteenth century. Carlyle will furnish the class text, but De Quincey, Macaulay, and Landor will also be studied. Professor Howe.

Three hours, second semester.

(Courses 13 and 14 should be taken consecutively, but may in exceptional cases, be taken separately.)

15. *English Prose Writers of the Eighteenth Century.* Gibbon, Burke, Samuel Johnson, Boswell, Hume, Smollett, Goldsmith, Fielding. Professor Howe. *Two hours, both semesters.*

16. (*a*) *The English Novel.* Its evolution and scope, from the Morte D'Arthur to the present, including a study (a) of the Elizabethan novelists Greene, Lodge, Nash, etc.; (b) of the Augustan novelists, Richardson, Fielding, etc.; (c) of the Georgian novelists, Scott, Jane Austen, the Tale of Terror, etc., and (d) of the Victorian novelists, Dickens, Thackeray, etc. A lecture course, with collateral reading and papers by the class. Professor Howe. *Three hours, both semesters.*

(*b*) *The English Novel in the Nineteenth Century.* Typical works of Jane Austen, Scott, Dickens, Thackeray, Meredith, and Thomas Hardy are read in class, and an equal amount of outside reading assigned for report and examination. The course is accompanied by expository lectures. *Three hours, both semesters.*

(*c*) *Social Problems in the English Novel.* The attempt to use the novel in the cause of various reforms. Dickens, Charles Reade, Charles Kingsley, Macdonald, and other nineteenth century writers will be considered, also existing tendencies in the work of John Galsworthy, Mary E. Mann, Arnold Bennet, Mrs. Humphrey Ward, etc. Professor Howe. *Three hours, both semesters.*

(The three courses numbered 16 will be given in successive years. For 1908-09 the course was 16*c*.)

17. *Living English Writers.* The Poets. Kipling, Meredith, Watson, Yeats, Stephen Phillips, Davidson, and others. Miss Hair. *Two hours, first semester.*

18. *Living English Writers.* Prose. The essay, drama, and novel will be examined. Miss Hair.
Two hours, second semester.

19. *The Relation of English to Contemporary European Literature,* during the last twenty-five years. The Drama. Professor Howe. Not given in 1909-10. *Two hours, first semester.*

20. *The Relation of English to Contemporary European Literature,* during the last twenty-five years. The Novel. Not given in 1909-10. Professor Howe. *Two hours, second semester.*

21. *The Teaching of English Literature.* Lectures. Required of all seniors taking a major in English Literature. Professor Howe. *One hour, first semester.*

22. *Seminar in English Literature.* The course is preparatory to the writing of the thesis, and is required of all seniors and graduates taking a major in English Literature. Professor Howe. *Two hours, both semesters.*

23. *A Critical Study of Shakespeare and of His Critics.* A limited number of plays will be examined in the light of the critics. Courses 10 and 11 are prerequisite to this course. Not given in 1909-10. Professor Howe. *Three hours, both semesters.*

GEOLOGY.

Professor Barker.

1. *General Geology.* A beginner's course geology including dynamical, structural, and physiographical geology. Lectures and field trips. *Three hours, first semester.*

2. *Historical Geology.* A continuation of Course 1. Lectures and field trips. Prerequisite Geology 1. *Three hours, second semester.*

3. *Economic Geology.* The genesis of ore deposits. A study of valuable mineral deposits, their occurrence, associations, and tracing by geologic principles. Prerequisites Geology 1, 2 and 4, and Chemistry, General and Analytical. *Three hours, both semesters.*

4. *Crystallography and Mineralogy.* This course begins with the study of crystal forms in the different systems, then takes up mineral determination by means of the blow pipe, and lastly the determination of minerals with the aid of the pocket knife and magnifying glass. One hour lecture and two laboratory periods. Prerequisite Geology 1 and 2, and General Chemistry. *Three hours, both semesters.*

5. *Petrology.* The determination of rocks by means of the hand specimen. Prerequisite Geology 4. Two laboratory periods first semester. *Two hours, first semester.*

6. *Field Geology.* The geological mapping of an assigned area. Prerequisite Geology 2. *Hours to be arranged.*

7. *Paleontology.* A study of the fossil life. Prerequisite Geology 2 and some Biology. *Hours to be arranged.*

EQUIPMENT.

In the Department of Geology the University of Oregon has a fine collection of illustrative material. This is contained in two cabinets, one of rock and minerals, part of which was presented to the University by the United States Geological Survey; the other part being rocks and minerals of Professor Condon's collection.

The other cabinet is especially rich in fossil remains and represents the fruits of over forty years of continued research in the mountains of Oregon for minerals to illustrate their history. These are, therefore, strictly characteristic of Oregon's own geological record.

These minerals more than fill twenty large glass cases, whose under spaces are crowded with over two hundred drawers also filled with illustrative geological materials, arranged to accommodate the classes of the geological department. This undisplayed material would fill thirty or forty cases, and require a much larger museum room.

GERMANIC LANGUAGES AND LITERATURES.

Professor Schmidt.
Mr. Koehler.

The aim of the instruction in the department is primarily to enable students to use modern German with facility in reading, writing, and, as far as practicable, in speaking, and to acquaint them with the masterpieces in German literature.

Opportunity is also given for graduate courses in Germanic languages. These are intended especially for students who desire to make the teaching of these languages their profession, or who expect to take an advanced degree in them. Careful attention is given to the linguistic as well as to the literary training of the student, aiming at a comprehensive insight into the historical growth of the Germanic languages and literatures.

The German Club (Verein Germania) is intended for students who are interested in conversation and lectures on German life and customs. From time to time programs are arranged to give students an insight into the musical and dramatic life of Germany. Students must have had several years of German before they are eligible to membership. Meetings take place twice a month.

Any of the following courses, German 1 to 12, are open to freshmen who have had the prerequisite courses:

GERMAN LANGUAGE AND LITERATURE.

1. *Elementary German.* The elementary course comprises: Essentials of German by Vos, German Composition, Translation of Easy Prose and Poetry. Special attention is paid to systematic training in pronunciation. The reading of about one hundred pages of graduated texts from a reader is required. Huss's German Reader is used. In addition to this two or three of the following selections will be read: Storm's Immensee, Heyse's L'Arrabbiatta, Volkmann's Kleine Geschichten Mærchen und Erzæhlungen, Seidel's Mærchen, Zschokke's Der Zerbrochene Krug.

Five hours, both semesters.

2. *Advanced German.* During the second year the work comprises advanced German Grammar and Composition, Syntax. German conservation (based upon Vos's Material or some other method) throughout the year. Material to be read is selected from the following list: Heyse's Das Mædchen von Treppi; Baumbach's Die Nonna; Wildenbruch's Das edle Blut; Hillern's Hœher als die Kirche; Seidel's Leberecht Huehnchen; Hauff's Das Kalte Herz; Leander's Træumereien; Freitag's Die Journalisten; Lessing's Minna von Barnhelm; Schiller's Wilhelm Tell; Gœthe's Hermann und Dorothea. The class is expected to read two or three stories and two or three plays during the year.

Four hours, both semesters.

3. *Classical Drama.* (a) Gœthe's Egmont, Torquato Tasso, Iphigenie auf Tauris; (b) Schiller's Maria Stuart, Jungfrau von Orleans, Wallenstein; (c) Lessing's Minna von Barnhelm, Emilia Galotti, Nathan der Weise; (d) Grillparzer's Sappho; (e) Kleist's Prinz Friedrich von Homburg. Writing of essays in German. Practice in writing German is afforded by means of dictation or similar exercises. *Three hours, both semesters.*

4. *German Fiction and Contemporary Literature.* During the year some of the following works will be read: Ebner-Eschenbach's Die Freiherren von Gemperlein, Keller's Dietegen, or Kleider Machen Leute; Riehl's Novellen, for example, Burg Neideck, Der Fluch der Schœnheit; Der Stumme Ratsherr, Das Spielmannskind; Scheffel's Ekkehard; Wildenbruch's Der Letzte; Dahn's

Sigwalt und Sigridh, Meyer's Gustav Adolph's Page; Sudermann's Der Katzensteg; and Auerbach's Brigitta, Frenssen's Jœrn Uhl, etc. *Three hours, both semesters.*

This course alternates with Course 18.

5. *Modern German Drama.* The following dramas will be read: Wildenbruch's Harold, Hauptmann's Die Versunkene Glocke; Sudermann's Johannes, Fulda's Der Talisman; Hebbel's Agnes Bernauer or Herodes und Mariamne; Gutzkow's Zopf und Schwert, Uriel Acosta, etc. *Three hours, both semesters.*

6. *German Poetry.* Gœthe's Poems; Schiller's Ballads; Uhland's Poems; White's Heine's Poems; Klenze's Deutsche Gedichte; Hatfield's German Lyrics and Ballads, or Kluge's Auswahl Deutscher Gedichte, will be used as text-book. *One hour, one semester.*

Poems and Epics. Scheffel's Trompeter von Seckkingen, etc. *One hour, one semester.*

7. *Goethe's Faust.* Part I, with commentary. *Two hours, one semester.*

8. *Heine's Prose.* Die Harzreise; Die Romantische Schule and other selections will be read. *Two hours, one semester.*

9. *Historical German.*—This course consists of the rapid translation of modern historical and economic German. It is especially designed for those students who wish to acquire a sufficient knowledge of the language to enable them to read German books on history, philosophy, etc. The matter to be read is selected from such works as Riehl's Kulturgeschichtliche Novellen; von Sybel's Kleine Historische Schriften; Freytag's Bilder aus der Deutschen Vergangenheit; Seiler, Die Heimat der Indogermannen, Schiller's Geschichte des dreissigjæhrigen Krieges, etc. *Two hours, one semester.*

10. *Scientific German.* This course is recommended to students who are taking or who plan to take special courses in Natural Science or in Medicine. Gore's or Dippold's German Science Reader is used as an introduction, and is followed by monographs on various subjects in order to give the student as large a vocabulary as possible. Among the books to be read are: Lassar-Cohn's Die Chemie im tæglichen Leben; Brewer's Naturlehre; Mueller's die Electrischen Maschinen; Helmholtz's Ueber Gœthe's Naturwissenschaftliche Arbeiten. No student is advised to take this course who

has not had at least two years of thorough preparation in literary German. *Two hours, one semester.*

11. *Teaching of German.* Discussion of methods, examination of texts. Open to seniors and special students who have not less than 20 hours' credit in German. Required of students who wish to be recommended as teachers of German in the high schools of the State. *Two hours, one semester.*

12. *Advanced German Composition.* C. A. Buchheim. Materials for Prose Composition, Parts I and II.
One hour, both semesters.

13. *German Conversation.* Open to all students who have had Courses 1 and 2. *Two hours, both semesters.*

14. *General History of German Literature.* Bernhardt's or Max Koch's Deutsche Litteraturgeschichte is used as a text-book. A limited number of lectures are given.
One hour, both semesters.

15. *Scandinavian Literature.* Works of Ibsen, Bjoernson, etc., in standard translations will be read and discussed.
Two hours, one semester.

16. *German Culture and Civilization.* A course of illustrated lectures. Open to all students. *One hour, one semester.*

18. *Germanic Mythology.* Texts: F. Kaufmann, Eugen Mogk, and Grimm. *One hour, one semester.*

18. *The Nineteenth Century Novel.* Freytag's Soll und Haben or Rittmeister von Alt-Rosen; Meyer's Jurg Jenatsch; Sudermann's Der Katzensteg; Frenssen's Joern Uhl; Storm's Der Schimmelreiter; Riehl's Kulturgeschichtliche Novellen; Paul Heyse's Das Gluck von Rothenburg; Scheffel's Ekkehard; Ludwig's Zwischen Himmel und Erde; Dahn's Ein Kampf um Rom. In addition to this, suitable selections from Ganghofer, Rosegger, Auerbach, Ebner-Eschenbach, Spielhagen and others will be assigned for outside reading.
Three hours, both semesters.

FOR GRADUATES AND ADVANCED UNDERGRADUATES.

In so far as the demand will justify the formation of classes, the department will offer the following courses:

20. *Middle High German.* Michels Mittelhochdeutsche Grammatik, 1900; Henrici, Proben der Dichtungen des Mittelalters, Ber-

lin, 1898; Selections from Nibelungenlied; Walther von der Vogelweide; Parzival; Lexer; Mittelhochdeutsches Taschen-Wœrterbuch.

21. *Old High German.* Braune's Althochdeutsche Grammatik, and the same author's Althochdeutsches Lesebuch (4th edition); Muellenhoff and Scherer's Denkmæler Deutscher Pœsie und Prosa (3rd edition); Behaghel's Historical Grammar of the German Language.

22. *Gothic and the Elements of Comparative German Grammar.* Braune, Gotische Grammatik, 4. Auflage, Halle, 1895; Heyne's Ulfilas, 9. Auflage, von F. Wrede, Paderborn, 1896; Streitberg's Urgermanische Grammatik. This course is required for advanced degrees in English Philology.

23. *History of German Literature to the Nineteenth Century.* With special study of the classic periods of the twelfth and eighteenth centuries. Scherer's Geschichte der deutschen Literatur; Franke's Social Forces in German Literature are used as textbooks. Papers on assigned topics will be required.

24. *Physiological Phonetics.* The sounds of English, German, and French. Grandgent, German, and English sounds (Boston, Ginn & Co., 1892); Ripmann's adaptation of Vietor's Kleine Phonetik (London, J. M. Dent & Co., 1899); Sweet, A Primer of Phonetics (Oxford, Clarendon Press, 1890); Lectures. Each student will make a special study of his English vowels.

Two hours, both semesters.

ROMANCE LANGUAGES AND LITERATURES.

Professor Cloran.

FRENCH.

1. *Elementary French.* Fraser and Squair's French Grammar, Part I, with written exercises and systematic training in French pronunciation. The reading of several hundred pages of graduated texts is required. Super's French Reader or some similar textbook is used. Translation at hearing.

Five hours, both semesters.

2. *Advanced French.* Composition and syntax on the basis of Fraser and Squair's French Grammar, Part II. Reading of prose and verse. Selections will be read from the following authors: Bazin, Loti, Hugo, Gautier, Balzac, De Vigny, About. French conversation.

Four hours, both semesters.

3. *History of French Literature in the Seventeenth Century.* Selections will be read from Racine, Moliere, Corneille, Bossuet, Pascal, and Boileau. This course is open to students who have completed Course 2 or its equivalent.

Three hours, both semesters.

4. *History of French Literature in the Eighteenth and Nineteenth Centuries.* The following texts will be read: Selections from the works of Rousseau, Voltaire, Beaumarchais, Chateaubriand, Beranger, Alfred de Musset, Alfred de Vigny, Lamartine, Gautier, and Victor Hugo. Course 4 alternates with Course 3.

5. *Scientific French.* The purpose of this course is to acquaint the student with technical terms, to familiarize him with scientific forms of expression and style, and to enable him to read with profit the scientific and technological contributions to French magazines. Bowen's Scientific French Reader will be used, and a number of magazine articles will be assigned to each student for outside reading. Open to students who have had two years of French. *One hour, both semesters.*

6. *French Conversation.* Open to students who have had one year of French and who are taking Courses 2, 3 or 4.

One hour, both semesters.

7. *Advanced French Conversation.*

One hour, both semesters.

8. *History of French Literature and French Civilization.* Open to students who have had two years of French.

Three hours, both semesters.

9. *Lectures on French, Spanish and Italian Literature of today.*

One hour, both semesters.

FOR GRADUATES AND ADVANCED UNDERGRADUATES.

10. *Old French.* Lectures on old French Phonology and Morphology. Students shall provide themselves in advance with Gaston's Paris's Extraits de la Chanson de Roland, and Schwan-Behren's Grammaire de l'ancien francais, traduction de Bloc (Leipzig, 1900.) Other books used are Kœrting, Lateinisch-romanisches Wœrterbuch (Paderborn, 1901), Paris's edition of La Vie de St. Alexis (Paris, 1903).

Open to students who have had at least two years of German, four years of French, and four years of Latin.

Three hours, both semesters.

11. *Teaching of French and Spanish.* Methods and text-books. *One hour, second semester.*

SPANISH.

1. *Elementary Spanish.* Edgren's Spanish Grammar; Alarcon, El Capitan Veneno; Padre Isla, Gil Blas de Santillana; Spanish conversation. The course is open to students who have had two years of Latin. *Three hours, both semesters.*

2. *Advanced Spanish.* Modern Spanish Literature. Palacio Valdes, Perez Galdos, Alarcon, Valera, Echegaray, Becquer, and Pereda. Spanish conversation. *Two hours, both semesters.*

3. *Classical Spanish.* Cervantes, Don Quixote (selections); selected plays of Lope de Vega, and Calderon. *Two hours, both semesters.*

ITALIAN.

1. *Elementary Italian.* Grandgent's Italian Grammar; Bowen's First Italian Readings; Reading of Modern Prose. This course will be open to students who have had two years of French or four years of Latin. Given in 1909-10. *Two hours, both semesters.*

2. *Advanced Italian.* The classic period of Italian Literature. Readings from Dante, Boccaccio and Petrarch. Courses 1 and 2 are given in alternate years. Not given in 1909-10. *Two hours, both semesters.*

GREEK LANGUAGE AND LITERATURE.

Professor Straub.

Inasmuch as Greek is not yet taught in the high schools of this State, the University will offer first and second year Greek, which may count as college credits toward graduation.

Students who have had two or three years of Greek may enter the second semester of the third or fourth year respectively. Students may also enter 14 and 16 the second semester.

1. *Elementary Greek.* Gleason's Greek Primer. *Five hours, first semester.*

2. *Xenophon's Anabasis.* (Harper and Wallace) Book 1; Goodwin's Greek Grammar. *Five hours, second semester.*

The aim of the first year is quality, not quantity. For this reason, the drill in Greek inflections and the common constructions is made as thorough as possible. In addition, every effort is made to increase the student's vocabulary. The "Word List" in Harper and Wallace's Anabasis is an excellent help in this direction.

3. *Anabasis,* continued. Books II, III and IV. Greek Grammar reviewed. Critical study of Greek prepositions. Daily translations from English to Greek. Text-books, in addition to those used in Course 2: Pearson's Greek Prose Composition, and Adam's Greek Prepositions. *Four hours, first semester.*

4. *Homer's Iliad.* (Seymour) Books I to IV. Homeric language and verse (Seymour). Jebb's Homer. Study of "The Homeric Palace" (Isham). Daily exercises in Greek prose continued. Special attention will be given to Homeric forms. The customs of the Homeric Greeks will be carefully studied.

Four hours, second semester.

5. *Hellenistic Greek.* One or two of the Gospels will be studied, and the general principles of Hellenistic Greek noted.

Four hours, first semester.

6. *Hellenistic Greek,* continued. Selected portions of the New Testament. Selections from Septuagint will also be offered.

Four hours, both semesters.

Courses 5 and 6 are intended chiefly for students who expect to prepare for the ministry, and are elective to other Greek students. Prerequisites: Courses 1 to 4 inclusive. Text-books: Wescott and Hort's New Greek Testament recommended. Conybeare and Stock's Selections from the Septuagint (Ginn & Co.).

7. *Xenophon's Memorabilia.* Demosthenes' Philippics. (Students will be required to read up the appropriate portions of the history of Greece, in order to study the above in their proper setting.) *Four hours, first semester.*

8. *Lysias' Orations.* (Morgan's or Adam's.) Selections from Herodotus. Advanced Greek prose composition. Study of Sanford's Three Thousand Classic Greek Word list.

Four hours, second semester.

9. *Selections from the Plays of Euripides.* Study of the Attic Theater (Haigh). *Three hours, first semester.*

10. *Plato's Apology and Crito.* (Kitchel or Dyer.) Croiset's Greek Literature. *Three hours, second semester.*

11. *Selections from the Comedies of Aristophanes.* Study of the influence of comedy on Greek thought and temperament.
Three hours, first semester.

12. *Demosthenes' De Corona.* (Goodwin.) Also suitable extracts from Aeschines' "Against Ctesephon." Study of Bredif's Life of Demosthenes. *Three hours, second semester.*

GREEK-ENGLISH COURSE.

No Greek required. Open to all students.

The following eight courses are offered to students who have unfortunately not taken Greek. They will give a fairly good insight into the religion, habits, and life of that wonderful people, whose institutions and civilization still make themselves felt at the present time, and whose influence still prevails strongly in modern thought.

13. *Greek Mythology.* Text-book: Guerber. Collateral reading: Bullfinche's Age of Fable. Informal talks.
One hour, first semester.

14. *History of Greek Art.* (Tarbell.) Greek Sculpture (Gardner). *One hour, second semester.*

15. *History of Greek Literature.* From Homer to Theocritus (Edward Capps). Homeric Society (Keller).
One or two hours, first semester.

16. *The Life of the Ancient Greeks.* (Gulick.) The Ancient City (Coulages). The Attic Theater (Haigh).
One or two hours, second semester.

FOR GRADUATES AND ADVANCED UNDERGRADUATES.

17. *Modern Greek.* *Three hours, first semester.*

18. *Modern Greek Literature,* studied and compared with classic Greek. *Three hours, second semester.*

19. *Pindar's Odes and Fragments.* Thucidides, Books IV to VI.
Two hours, first semester.

20. *Selections from Aristotle.* *Two hours, first semester.*

21. *Homer's Iliad.* Books VI to XXIV, read with a view to the study of the civilization and customs of the Homeric Tribes.
One hour, both semesters.

22. *Greek Epigraphy.* Text-book: Roberts'.
One hour, first semester.

23. *Greek Inscriptions.* Text-book: Hick's Manual of Greek Historical inscriptions. *One hour, second semester.*

HISTORY OF ART.

Miss Leach.

This course is varied from year to year. One year's study may be devoted to Ancient and Mediæval Art, the next year to Modern Art. The University has a very useful collection of works on art and portfolios of prints, and frequent additions of important works are being made. *One hour, both semesters.*

HISTORY.

Professor Schafer.
Professor Clark.

For the benefit of those contemplating the election of work in this department, it is suggested that the order in which history courses should be studied will usually be the order followed below, so far as the introductory courses are concerned. But there may be exceptions, based on the amount and character of previous work, special adaptability, and questions of correlations with other subjects.

Students entering at the mid-year may be allowed to take up those courses for which their preparation most nearly fits them. All courses in this department are semester courses.

INTRODUCTORY COURSES.

1. *History of England.* A general course covering leading phases of English History. Lectures, reports, and assigned readings. Open to all freshmen. *Three hours, both semesters.*

2. *Greek and Roman History.* A general course calling for extended reading both in classical sources and in the best secondary authorities. Special stress is laid on Greek civilization. *Three hours, both semesters.*

3. *Mediaeval History.* A study of the principal historical movements of Europe from the decline of the Roman Empire to the Renaissance. Open to students who have taken the equivalent of 1 or 2. *Three hours, both semesters.*

4. *Modern History.* The development of Europe from the Renaissance to the close of the Nineteenth Century. Open to students who have taken 3 or an equivalent. *Three hours, both semesters.*

5. *Historiography.* A course intended to familiarize the student with the world's great writers of history, their works, and the methods they employed in producing them; also to impart, as concretely as possible, the leading principles of research and criticism. A brief thesis, prepared according to approved methods, is required as a condition of completing the course. Open to students who have had one University course. *Two hours, both semesters.*

6. *Early American History.* A general course covering the history of the Colonies, the Revolutionary War, and the adoption of the Constitution. Open to students who have had Course 1 or an equivalent. *Three hours, both semesters.*

7. *Later American History.* A general course covering the history of the United States from 1789 to the close of the reconstruction period. The emphasis will be placed on political history. *Three hours, both semesters.*

8. *Continental Europe,* 375-1870. A general survey, with emphasis on principles and movements rather than details, designed to explain the evolution of modern Europe. Open to students who have had one University course. *Two hours, both semesters.*

ADVANCED COURSES.

9. *Constitutional History of England.* A study of the more important phases of English constitutional development, with some attention to the working of the present constitution. Open to students who have had Course 1, and the equivalent of Courses 3 and 4. *Three hours, both semesters.*

10. *Nineteenth Century History.* A study of the most significant movements of the world's history from the close of the French Revolution to the end of the nineteenth century. Prerequisites, Courses 1, 3 and 4, or equivalents. *Three hours, both semesters.*

11. *Oregon.* The diplomatic history of the Oregon Territory. *Two hours, both semesters.*

12. *Pacific Slope History.* A study of the exploration and colonization of what is now the American portion of the Pacific Coast, together with the evolution of the Pacific states. Some attention will be given to American relations with other powers on the

Pacific, both occidental and oriental, especially Japan and China. Open to all students of proper maturity and training.

Three hours, both semesters.

EQUIPMENT.

The equipment in History is already considerable, and is being added to as rapidly as means will permit. The library contains many of the standard general histories and histories of special periods. In the way of primary sources the University is especially favored in having at hand a considerable part of the documents and manuscripts of the Oregon Historical Society, which form an exceedingly valuable body of materials for research work in history. This material is being used by our advanced students in the production of monographs on various subjects in Oregon history.

The library is also adding to its stock of historical sources, especially in the line of later English and American history. It now possesses the colonial records and archives of several of the original states, and a reasonably complete collection of materials on the Old Northwestern states. These include the historical society publications of Ohio, Indiana, Illinois, Michigan and Wisconsin, and a large part of the state documents of the same states. Efforts are now being made to complete our files of the publications of the Pacific coast states, of which a large part is already at hand.

LATIN LANGUAGE AND LITERATURE.

Professor Dunn.

COURSES PRIMARILY FOR UNDERGRADUATES.

(Courses 1 and 2 are designed for students who offer at entrance two and three years of Latin respectively. They are therefore essentially preliminary to Courses 11-18, which are based upon titles more generally recognized as College Latin.)

1. *Sallust's Catilina.* Selected Orations of Cicero.

Four hours, both semesters.

This course may be termed Third-year Latin, pre-supposing two years of previous study in the language. The Catilina of Sallust begins the year as a connecting link between Cæsar of the second year and the later study of Cicero. Three-fourths of the year's work is given to Cicero's Orations—the seven to be read

in 1909-10 including the four against Catiline and the Fourth Verrine.

Text-books: Gudeman's Sallust's Catiline (Appleton); Nicol's Catiline Orations of Cicero (Pitt Press); King's Select Orations of Cicero (Clarendon Press); Hall's Fourth Verrine Oration of Cicero (Macmillan).

2. *Ovid's Metamorphoses,* Selections; Vergil's Aeneid, Books VII-XII. *Four hours, both semesters.*

Course 2 is designed to constitute Fourth-year Latin, to which the equivalent of three years' work or graduation from Course 1 is required for registration. Selections from Ovid's Metamorphoses, about fifteen hundred lines in all, will be studied until the Christmas holidays, when the last six books of Vergil's Aeneid will form the basis of work for the remainder of the year.

Course 2 or entrance credits in its equivalent are necessary to admission to Course 11 and those that follow.

Laing's Selections from Ovid (Appleton) and Haigh's Aeneid, Books VII-IX and X-XII (Clarendon Press.)

(Courses 11-18, as tabulated below, are contemplated to form a series, covering the four years of the ordinary collegiate course. They are designed to be taken in succession of pairs, Course 11 in the first semester of the freshman year, to be succeeded by Course 12 in the second semester, 13 and 14 in corresponding semesters of the sophomore year, and so on throughout the four years. Though an absolute rigidity in succession is not insisted upon, these eight courses are projected upon the pre-supposition of a regular gradation in treatment and subject, embracing the authors almost universally read in college. Courses 11-14 are especially framed to cover as wide a variety of authors and subject matter as possible. The avowed aim is purely extensive rather than intensive. Course 15 and those following are on the contrary more exhaustive and embody more systematic studies of special periods or authors. On the whole, the student will find it advantageous, though not essential, to follow out the series.)

11. *Cicero's De Senectute.* Vergil's Eclogues; the Menæchmi of Plautus; Selections from Catullus. *Three hours, first semester.*

Course 11 properly begins the usual college course in Latin and is open to students who present four years of Latin at entrance

or have passed in Course 2. A large portion of the authors read will be covered in sight-reading.

Text-books: Allen & Greenough's Cicero de Senectute (Ginn); Sidgwick's Vergil's Eclogues (Pitt Press); Fowler's Menæchmi of Plautus (Sanborn); Simpson's Catullus (Macmillan).

12. *Selections from Horace's Odes and Epodes.* Sallust's Jugurtha; Selections from Tibullus, Propertius, and Phædrus.

Three hours, second semester.

With the Lyrics of Horace, the Elegies of Tibullus and Propertius, and the Fables of Phædrus, the latter mainly at sight, Course 12 covers a wide range in Latin poetry, relieved and supplemented by Sallust's prose monograph on the Jugurthine War.

Text-books: Moore's Odes and Epodes of Horace (American Book Co.); Long and Frazer's Sallust (Bell); Carter's Roman Elegiac Poets (Heath); Chamber's Phædrus (Bell).

13. *Selections from Horace's Satires and Epistles.* Livy, Book V; Ovid's Tristia, Books I and III.

Three hours, first semester.

Course 13 affords an opportunity for students who have already had Course 12 to continue the study of Horace, viewing him in quite a different field. The work of the course is divided between Horace and the study of Roman republican history from Livy. The instructor reserves some latitude of choice in the latter author, selecting Book V for 1909-10. Occasional passages will be cited from Ovid's Tristia.

Text-books: Kirkland's Satires and Epistles of Horace (Sanborn); Altord's Livy, Book V (Macmillan); Shuckburgh's Ovid's Tristia, Books I and III (Macmillan).

14. *Terence's Phormio;* Tacitus' Agricola; Selections from Pliny's Letters; Selections from Martial's Epigrams.

Three hours, second semester.

Two extremes of Latinity are here studied side by side—a play of the Ante-Classical Terence and selected readings from three masters of the Silver Age of Latin.

Text-books: Sloman's Phormio of Terence (Clarendon Press); Stephenson's Agricola and Germania of Tacitus (Pitt Press); Church and Brobribb's Select Letters of Pliny (Clarendon Press); Post's Select Epigrams of Martial (Ginn).

15. *Roman Law and Public Life.*

Two hours, first semester.

This course will be based upon the text of selected orations of Cicero as a point of departure for the discussion of Roman political life and the investigation of certain periods in Roman history at first hand.

Text-books: Halm & Donkin's Pro Roscio Amerino (Macmillan); King's in Cæcilium Divinatio (Clarendon Press); Cowie's in Verrem Actio Prima (Pitt Press).

16. *The Roman Historians.* *Two hours, second semester.*

Selected epochs in Livy and Tacitus will be read for purposes of comparison and will serve as a nucleus around which to group a discussion of the methods of Roman historians and a running review of the historians themselves from the annalists to the Scriptores Historiæ Augustæ.

Text-books: Summer's Tacitus' Histories, Book III (Pitt Press); Tatham's Livy, Book XXII (Clarendon Press).

17. *Roman Literary Criticism.* *Two hours, first semester.*

This course provides a rapid comparison of four of the great classic treatises on literary criticism—Cicero's Brutus, Horace's De Arte Pœtica, Quintilian's Book X of the Institutiones, and Tacitus' Dialogus.

Text-books: Kellog's Cicero's Brutus (Ginn); Dalton's Select Epodes and Ars Poetica of Horace (Macmillan); Peterson's Quintilian, Book X (Clarendon Press); Bennett's Dialogus of Tacitus (Ginn).

18. *Roman Philosophy.* *Two hours, second semester.*

Lectures covering the chief systems of doctrine prevailing among the Romans of the Classic Period will alternate with readings from Cicero's De Officiis and the best portions of Lucretius.

Text-books: Holden's Cicero's De Officiis, Book III (Pitt Press); Kelsey's Lucretius (Allyn and Bacon).

COURSES PRIMARILY FOR GRADUATES.

The courses following herewith are designed for advanced students, but are open to undergraduates who, after due conference with the instructor, can give evidence of their fitness to satisfy the requirements of the courses. These courses are given usually in alternate years, as specified below in the descriptive paragraphs.

21. *History of Latin Literature.* Part I (Poetry). Lectures and reading. *Three hours, both semesters.*

22. *History of Latin Literature.* Part II (Prose). Lectures and reading. *Three hours, both semesters.*

Courses 21 and 22 are given in alternate years, comprising lectures continued throughout the year, in which the entire field of Latin literature is viewed in chronological series from the two several standpoints of poetry and prose. Illustrative selections from the authors will either be read and discussed in the classroom, or assigned for private reading, reports of which will be required at stated intervals. Course 21 will be given in 1909-10.

Text-books: Students will be constantly referred to the classical texts in the college library. Inadequate, but yet the most available hand books of selections are the following: Smith's Latin Selections, revised by Clement (Allyn and Bacon); Gudeman's Latin Literature of the Empire, two volumes, Poetry and Prose (American Book Co.); Merry's Fragments of Roman Poetry (Oxford University Press); Thackeray's Anthologia Latina (Bell & Son); Bæhren's Fragmenta Pœtarum Romanorum (Teubner).

23. *The Roman Theater.* Terence (three selected Comedies). Fragments of lost authors. Lectures. *Two hours, first semester.*

24. *The Roman Theater.* Plautus (three selected Comedies). Seneca (three selected Tragedies). Lectures. *Two hours, second semester.*

To be omitted in 1909-10; offered in 1910-11.

Courses 23 and 24 are designed to be taken in succession, occupying the first and second semesters, respectively. Lectures supplemented by the discussion of fragments from lost plays and the reading of three selected plays from each of three playwrights, whose works have come down to us in any entirety, will give a general conspectus of the range of Latin scenic literature. The plays of Plautus and Terence selected will not include any of those usually read in Courses 11 and 14. With this exception, the choice of plays to be read from the three authors may vary from year to year.

Text-books: Dziatko's P. Terenti Afri Comœdiæ (Tauchnitz), or the following annotated editions: Wagner's Hautontimorumenos, Adelphœ, and Phormio (Bell); Gœtz and Schœll's T. Macci Plauti

Comœdiæ Fasciculi IV-VI (Teubner); Peiper and Richter's L. Annæi Senecæ Tragœdia (Tauchnitz).

25. *Roman Satire.* Lectures with the study of fragments and Horace's Satires. *Two hours, first semester.*

26. *Roman Satire.* Persius and Juvenal. Lectures. *Two hours, second semester.*

In these courses Roman satire will be discussed in lectures covering the history and development of that department of Latin literature, and the lives of its writers, illustrated by the reading of the fragments, such as those of Ennius, Lucilius, and Varro, and selected satires of Horace, by way of comparison, ending with the Apokolocyntosis of Seneca. The second semester will have for its special consideration the work of Juvenal and Persius, with more special reference to the second period of Juvenal's literary career.

Text-books: Merrill's Fragments of Roman Satire (American Book Co.); Wickham's Horace's Satires (Clarendon Press); Pretor's A. Persii Flacci Satirarum Libri (Rivington); Pearson and Strong's Juvenal (Clarendon Press).

27. *Ovid.* The Fasti, Roman Religion, and Religious Archæology of Rome. *Two hours, first semester.*

28. *Ovid.* The Metamorphoses and Classic Mythology. *Two hours, second semester.*

To be omitted in 1909-10; offered in 1910-11.

Ovid's works present a rich field for research in many affiliated branches of classical science. Course 27 in the first semester makes the Fasti the basis of lectures and reading in Roman religion and the temple-archæology of Rome. The six books of the Fasti will be read, with the Roman calendar and the map of Rome in constant attendance.

In the second semester, Course 28 comprises a research into Greek and Roman Mythology, with the Metamorphoses as a background.

Text-books: Paley's Six Books of the Fasti (Bell's Grammar School Classics); Riese's P. Ovidii Nasonis Carmina, Vol. II (Tauchnitz), containing the Metamorphoses, or scattering annotated editions of select books, such as Simmons' Books I-III (Macmillan's Classical Series); Summer's Book VIII (Pitt Press Series); Book

IX (University Tutorial Series); Simmons' Books XIII and XIV (Macmillan's Classical Series).

29. *Epistolary Latin.* Select Epistles of Cicero and Seneca. *Two hours, first semester.*

30. *Epistolary Latin.* Select Epistles of Pliny and Fronto. *Two hours, second semester.*

The four great "letter writers" will be considered in comparison in these two courses, so divided that either semester may be elected to the exclusion of the other. Definite portions of the text will be selected, excluding such portions as may have been read in Course 14.

Text-books: Prichard and Bernard's Selected letters of Cicero (Oxford University Press); Haase's L. Annæa Senecæ Opera, Vol. III (Teubner); Cowan's Pliny's Letters, Books I and II (Macmillan's Classical Series); Naber's Frontonis Epistulæ (Teubner).

31. *The Corpus Caesarianum.* The Gallic War. Lectures and reading. *Two hours, first semester.*

32. *The Corpus Caesarianum.* The Civil War and Libri Incertorum Auctorum. Lectures and reading. *Two hours, second semester.*

Courses 31 and 32, though covering distinct epochs in the Corpus passing under Cæsar's name, are invaluable as a unit to teachers of Latin. Not merely Cæsar's text, but all the so-called "helps" that have accrued about Cæsar, will be discussed and illustrated in lectures. Themes for special investigation will be suggested and theses required occasionally.

Text-books: Peskett's Cæsar (Pitt Press); Perrin's Civil War (University Publishing Co.); Du Pontet's Text in two volumes in the Oxford Classical Texts.

33. *The Works of Vergil.* The Cxarmina Minora. Lectures and reading. *Two hours, first semester.*

34. *The Works of Vergil.* The Aeneid. Lectures and reading. *Two hours, second semester.*

Courses 33 and 34 to be omitted in 1908-09; to be offered in 1909-10.

These two courses are designed for the aid of teachers and for those who wish to study the complete works of Vergil, so arranged however, as to permit either semester to be elected

independently of the other. The Eclogues, Georgics, and Carmina Incerta will be studied in Course 33, while the Aeneid will constitute the basis of work in the second half year.

Text-books: Page's Works of Vergil in three volumes (Macmillan's Classical Series); Bæhren's Pœtæ Latina Minores, Vol. II (Teubner), containing the Carmina Incerta.

35. *Topography of Rome.* Lectures and investigation. *Two hours, both semesters.*

Lectures, assisted by maps, pictures and other available material, will illustrate in chronological order the monumental growth of Rome from prehistoric times to the fall of the Western Empire. Theses on suggested topics will be required at stated intervals.

36. *The Reign of Trajan.* *Two hours, first semester.*

Trajan's reign will be studied from every possible standpoint—from Pliny's Letters, from inscriptions and from monumental remains.

Text-books: Keil's Edition of Pliny in the Teubner Series; Hardy's Book X of Pliny's Letters (Macmillan).

37. *Latin Composition.* *One hour, both semesters.*

Course 37 provides advanced composition drill, particularly for those who have had four years of Latin. Sustained narrative and occasional unseen passages form the basis of translation.

Text-book: Nutting's Advanced Latin Composition (Allyn and Bacon).

MATHEMATICS.

Professor DeCou.
Dr. Leonard.
Mr. Reid.

The instruction in Mathematics is designed to secure two objects: First, high mental discipline for the general student through the study of an exact science; second, a thorough understanding of those subjects which form the foundation of most of the natural and applied sciences, such as physics, astronomy, and the engineering sciences.

Courses 1 and 3 are designed for students in literary courses who desire to secure a good foundation for their work in the sciences.

The courses fundamental to engineers are as follows: Freshman year, Course 2; sophomore year, Course 4; junior year, Course 17. These courses are recommended also to students who intend to make mathematics their major.

A number of fundamental elective courses are offered to the advanced student; they are so arranged as to give breadth and symmetry to his knowledge of mathematics and prepare him, if he so desires, to pursue graduate study profitably.

Graduate courses will be arranged to suit the needs of those applying for them.

Freshmen, entering the second semester, may take Courses 1, 2 and 6, if sufficiently prepared.

COURSE IN MATHEMATICS.

1. *Advanced Algebra and Plane Trigonometry.* An elementary course. Open to freshmen. *Three hours, both semesters.*

2. *Advanced Algebra, Trigonometry, and Analytical Geometry.* An introductory course. Required of freshmen in Engineering. Open to all freshmen. *Five hours, both semesters.*

3. *Analytical Geometry and Calculus.* An introductory course for literary and general scientific students. Prerequisites, Course 1. *Three hours, both semesters.*

4. *Differential and Integral Calculus.* This course includes the development of the fundamental principles and formulas of Differential and Integral Calculus; their applications to expansion of functions, indeterminate forms, the determination of the various properties of plane curves, maxima and minima, areas and length of curves, areas and volumes of surfaces, hyperbolic functions, etc. Prerequisite, Course 2. Required of sophomores in Engineering courses. Elective for others. *Five hours, both semesters.*

5. *Differential Equations.* A practical course in the theory of ordinary and partial differential equations and their solutions. Prerequisites, Courses 2 and 4. Text-book: Murray's Differential Equations. *Two hours, both semesters.*

6. *Advanced Algebra and Spherical Trigonometry.* A continuation of the Advanced Algebra of Courses 1 and 2, together with an introduction to Spherical Trigonometry. *Two hours, second semester.*

7. *History of Mathematics.* A brief survey of the most important developments of the subject. *One hour, first semester.*

8. *Teaching of Mathematics.* Dealing largely with the teaching of mathematics in secondary schools and treated from the historical standpoint. *One hour, second semester.*

9. *Computation.* A course dealing with short practical methods in various subjects. *One hour, both semesters.*

10. *Advanced Differential Equations.* A continuation of Course 5, based on the texts of Murray, Johnson and Forsyth. *Two hours, both semesters.*

11. *Determinants and Theory of Equations.* An elementary but very important course, giving the essential principles required in various advanced studies. Text: Burnside and Panton. *Three hours, one semester.*

12. *Solid Analytical Geometry.* An advanced course dealing with surfaces of the second degree and their properties, together with some discussion of surfaces in general. Text-book: C. Smith's Solid Geometry. *Three hours, one semester.*

13. *Advanced Integral Calculus.* Including definite integrals, Fourier series, elements of elliptic integrals and functions. Prerequisite, Course 4. *Three hours, both semesters.*

14. *Theory of Functions of a Complex Variable.* *Three hours, one semester.*

15. *Analytical Trigonometry.* *Three hours, one semester.*

16. *Projective Geometry.* An introductory course based on Holgate's translation of Reye's Geometric der Lage. *Three hours, one semester.*

17. *Analytical Mechanics.* An elementary course dealing with the principles and applications of statics, kinematics, and kinetics. Prerequisite, Course 4. Required of juniors in Engineering courses. *Three hours, both semesters.*

18. *General Astronomy.* A course embracing a brief historical sketch of the science, the fundamental principles, with such problems as yield to elementary methods of treatment, and an exposition of the more important facts known in reference to the bodies of the solar system, the stars, star clusters, and nebulæ, tides as cosmogonic agencies, and a comprehensive account of the Nebular Hypothesis. Observatory work will be carried on as the weather permits. *Two hours, both semesters.*

19. *Spherical and Practical Astronomy.* Lectures, observatory work, and computations. The observatory is provided with a good transit instrument, a sidereal clock, and a sextant with artificial horizon. The transit instrument is so arranged that it may also be used as a sight-seeing telescope.

Three hours, one semester.

GRADUATE COURSES.

On application, courses will be provided for graduates and others of sufficient mathematical maturity and training, in the following subjects: Modern Analytical Geometry, Differential Geometry, Elliptic Functions, Substitution Groups, and Theory of Numbers.

EQUIPMENT.

The department is provided with a good working library of the best texts and receives regularly a number of the mathematical journals.

A collection of the famous Brill models, made in Germany, is an important adjunct to the work in geometry. Included in this collection are plaster models of ellipsoids, hyperboloids of one and two sheets, elliptic and hyperbolic paraboloids, on which are shown the geodetic lines, lines of curvature, circular, and principal sections, etc.; also wire and thread models, illustrating ruled surfaces and generating lines of conicoids. A spherical blackboard, three feet in diameter, blackboard apparatus for use in geometrical constructions, and numerous models and drawings constructed by the students add materially to the equipment.

PHILOSOPHY AND EDUCATION.

Professor Sheldon.
Professor Alderman.

PHILOSOPHY.

1. *Greek Philosophy.* Prefaced by sketch of fundamental problems of philosophy and by mastery of the technical vocabulary of philosophy. Course consists of lectures, recitations, and reports. Each member of the class reads at least four of the Greek philosophical classics and reports upon the same.

Three hours, first semester.

2. *Modern Philosophy.* This course consists of the outlines of modern speculation beginning with Descartos and Bacon. The members of the class during the latter part of the course master and criticize at least one current system of philosophy.

Three hours, second semester.

3. *Ethics of Individual and Social Life,* a discussion of the virtues. The chief concrete ethical problems of modern life are discussed from the standpoint of evolutionary psychology and sociology. Lectures, text-book, and outside reading.

Two hours, first semester.

4. *Principles of Ethics.* History of ethical speculation with outlines of chief modern systems. Text-book and lectures.

Two hours, second semester.

15. *Philosophical Club.* Reading and discussion of current literature in Philosophy. For major students in the department.

One or two hours, both semesters.

EDUCATION.

It is the aim of the department to offer a group of courses which will acquaint the student with the results and methods of work in all the important departments of modern pedagogy. In order to accomplish this result, the courses will be given in a two-year cycle, as outlined below. The major portion of the student's energy, however, is spent in preparing papers, reports, and discussions on phases of the subject not treated in the lectures. As in the laboratory courses in the exact sciences, the chief purpose is to train the student to work and think for himself, the lectures serving simply as a guide. Owing to the advanced nature of the courses, students will not ordinarily be admitted to the classes in pedagogy until the beginning of their third or junior year.

1. *History of Education* to the eighteenth century includes a study of educational systems of Chinese, Hindus, Egyptians, Jews, Greeks, Romans, Middle Ages, the Renaissance and Reformative periods; also such educational classics as Plato, Aristotle, Quintillian, Guarino, Erasmus and Comenius.

Three hours, first semester.

2. *History of Education* from eighteenth century to the present. Consists of a study of the growth of the educational systems of

France, Prussia, Great Britain, Holland, Switzerland, the Scandinavian states, the United States of America; also chief modern classics beginning with Rousseau's Emile.

Three hours, second semester.

Course 1 prerequisite to 2.

3. *A Pedagogical Psychology.* Application of the fundamental principles of adult psychology to educational problems.

Three hours, first semester.

4. *Genetic Psychology.* Growth of the individual mind through childhood and adolescence to maturity, with reference to pedagogy.

Three hours, second semester.

7. *School Hygiene.* A digest of information on the subjects of lighting, ventilation, heating, school furniture, nervous disorders produced by school hygiene, of eye, ear, vocal organs, spinal curvature and infectious diseases. Not given in 1909-10.

8. *The Elementary School Curriculum.* History of the courses of study in the modern systems of elementary education. An advanced intensive course. Not given in 1909-10.

Two hours, second semester.

9. *Education Club.* Reading of contemporary literature and discussion of current topics. *One hour, both semesters.*

11. *Secondary Education, Its Aim.* History, organization, administration of secondary education in America, training of secondary teachers. School management, applied to secondary schools. Observation work in secondary schools. *Four hours, first semester.*

Same course repeated. *Four hours, second semester.*

12. *Methodology of High School Subjects,* with practice work in university practice school and high schools under supervision of department. Given each semester, student to register for one semester only. Alternates with Course 11.

Four hours, each semester.

13. Thirty lectures on present problems in education for students who desire a general survey of educational problems and who are not expecting to teach.

One hour, each semester.

PHYSICAL EDUCATION.

Mr. Hayward.

Physicial education is treated as part of college work. Two hours a week in the gymnasium classes are required of all students.

The new gymnasium is fitted with all modern gymnastic apparatus. The main hall is fifty-nine by one hundred and six feet, with a twenty-six foot ceiling. On the same floor is the office of the director, a room for anthropometry, and a tube hand-ball court twenty by fifty-five feet; there is also a gallery for spectators with a seating capacity of four hundred and fifty. Eight feet above the gallery is a sixteen lap cork running track nine feet wide. The basement is fitted up with steel lockers, shower baths, and a swimming pool twenty by sixty feet, with a gradual slope from three and one-half to nine feet in depth.

The girls' gymnasium is a brick building fitted with the more general gymnastic apparatus. It has a main hall forty by eighty-five feet, with a twenty-five foot ceiling. The basement is fitted with shower baths and lockers.

The department is conducted upon scientific principles. Its aim is both hygienic and educative. It attempts to aid functions and develop form, as well as to correct undeveloped and deformed parts, and supply recreation. It also aims especially to assist the student toward perfect nervous control, and by exercise of precision and skill to train nerve centers and muscles to act quickly and accurately in response to the will; and to produce mental and moral self-control.

Reasonable effort is made to encourage outdoor sports, and the director devotes a considerable time, when the season is suitable, to directing outdoor exercises, such as golf, tennis, and athletics of all kinds.

The students maintain an athletic association which promotes outdoor athletics. They are also permitted by the faculty to participate in intercollegiate sports. In these games the University is represented by a football eleven, a baseball nine, a track athletic team, a tennis club, a golf club, and a basketball team. Secondary and class teams are formed to give the University teams practice, and in order to touch as many students as possible.

Physical examinations are made, and the director will be ready to examine students at any convenient time. Students may take the physical examination and have their exercises prescribed, or may enter one of the regular classes.

PHYSICS.

Professor Boynton.
Mr. Jackson.

The elementary courses announced in previous catalogues under the numbers 1 and 1a are no longer offered for college credits.

Courses 1 and 2 and the lecture cycle 4, 5, 6 and 7, are of essentially the same grade, each pre-supposing a year of high school physics. Course 1 is especially intended for students in the College of Literature, Science and the Arts. Course 2 is intended primarily for Engineering students, giving more attention to the mathematical theory, and to problem work. Either course should be accompanied by Course 3 as laboratory work. Additional laboratory can be elected as Course 18.

Courses 4, 5, 6 and 7, constituting the lecture cycle, are temporarily withdrawn for the year 1909-10. Courses 6 and 7 will be repeated in 1910-11 and are intended especially for pre-medical students.

Prospective teachers of high school physics wishing the recommendation of the department should take at least 16 semester hours of work in the department, including Courses 1 or 2, 3, 8 and 9.

No credit is given for less than the full work of a course. Records given for the first half of a course continued through the year are understood to be provisional only, and conditioned upon the completion of the course.

Credits toward a degree are given only for work actually done at the University or at some other institution of like rank, or upon examination.

A deposit of $5 is required for each laboratory course each semester. The usual expense for Course 3 is $2.50 per semester.

GENERAL COURSES.

1. *General Physics.* A general non-mathematical course, open to all students who have satisfied the matriculation requirements, at the beginning of each semester. This is a recitation course, and should be accompanied by Course 3 in the laboratory.

Three hours, both semesters.

2. *Physics for Engineers.* A course of the same general grade as Course 1, but given especially to meet the needs of Engineering

students. This course should be taken either in freshman or sophomore year, and accompanied by Course 3.

Three hours, both semesters.

3. *Physical Measurements.* A general laboratory course designed to accompany Course 1 or 2, or the lecture Courses 4, 5, 6 and 7. *One hour, both semesters.*

4. *Mechanics.* A non-mathematical experimental presentation of the principle facts of the mechanics of solids, liquids, and gases. Not given in 1909-10. *Three hours, first semester.*

5. *Heat.* A study of thermometry and calorimetry, with an introduction to the theory of solutions and to the kinetic theory in its application to gases and liquids, and thermodynamics. Not given in 1909-10. *Three hours, second semester.*

6. *Light.* A study of the more important phenomena of reflection, refraction, interference, diffraction and polarization of light, based upon a preliminary general discussion of wave motion. Not given in 1909-10. *Three hours, first semester.*

7. *Magnetism and Electricity.* The fundamental facts and theories, and their relations to modern applications, such as the transmission of power, and of intelligence, methods of measurements, recent theories of matter, etc. Not given in 1909-10.

Three hours, second semester.

8. *History of Physics.* A brief survey of the most important developments of the subject. *One hour, first semester.*

9. *Teaching of Physics.* Dealing largely with the teaching of Physics in secondary schools, and treated from the historical standpoint. *One hour, second semester.*

ADVANCED COURSES.

11. *Analytical Mechanics.* Also announced as Mathematics 17. Prerequisite, Differential and Integral Calculus. Required of juniors in the Engineering courses. *Three hours, both semesters.*

12. *Mathematical Theory of Electricity and Magnetism.* Prerequisite, Physics 1, 2 or 7, and Differential and Integral Calculus. An introduction to the more mathematical methods of presentation, especially intended for students of Electrical Engineering, but adapted to the needs of those who wish to pursue the subject farther. Required of juniors in the course in Electrical Engineering. *Three hours, first semester.*

13. *Electrical Measurements.* A continuation of Course 12. The calibration of standard types of measuring instruments, the preparation and testing of standards of resistance, E. M. F., inductance and capacity, and the use of the potentiometer and dynamometer. Required of juniors in the course in Electrical Engineering. One recitation and two laboratory periods.

Three hours, second semester.

14. *Thermodynamics.* Prerequisites, Physics 1, 2 or 5 and Differential and Integral Calculus. A course on the theory of heat as applied to ideal gases, saturated vapors, and other simple types of substances, introductory to the study of the steam engine. Especially recommended to students specializing in Physics or Physical Chemistry. *Three hours, first semester.*

15. *Molecular Physics.* A continuation of Course 14, including the Kinetic theory of gases and liquids; the deduction and further discussion of van de Waals' equation, and the theoretical aspects of the theory of solutions. *Three hours, second semester.*

16. *Theory of Light.* Lectures with experimental illustration. Problems relating to the theory of optical instruments, treated by the methods of Geometrical Optics, and of the wave theory. Prerequisites, Physics 1, 2 or 6, and Differential and Integral Calculus.

Three hours, either semester.

17. *Harmonic Motion.* The analytical treatment of wave motions, with applications to sound, light, and electricity. Prerequisites, Physics 1, 2, or 6 and 7, and Differential and Integral Calculus, and at least one semester of Analytical Mechanics.

Three hours, either semester.

18. *Advanced Undergraduate Laboratory Work.* Open only to those who have completed at least the first half of Course 3. Work and credits to be arranged with the instructor.

COURSES PRIMARILY FOR GRADUATES.

21. *Advanced Mathematical Physics.* Lectures and assigned readings. The topics treated will be varied from year to year, to suit the needs of students. *Hours to be arranged.*

22. *Advanced Laboratory and Research.* Qualified students will have all the facilities of the laboratories placed at their disposal, and will receive the advice and assistance of the department.

Hours to be arranged.

23. *Seminary.* Conferences at stated times on assigned topics and current periodical literature.

EQUIPMENT.

The physical lecture room has a seating capacity of about sixty students. The lecture table is supplied with gas and water cocks, and electrodes connected at will with the University electric light plant or with the storage battery. An arc light stereopticon is used for projection.

The general Physical Laboratory consists of three rooms on the same floor. These rooms are supplied with gas and water connections, and with electrodes capable of furnishing as high as seventy-five amperes. A basement room provided with substantial masonry piers is used for advanced work and for experiments requiring great stability.

Important additions have recently been made to the equipment of the department. These include new cases for apparatus; a considerable re-equipment of the elementary laboratory; an apparatus for the determination of the Mechanical Equivalent of Heat according to Puluj; standard thermometers with certificates from the German Reichsanstalt; a photometer, a Michelson interferometer, and other important optical instruments for the advanced laboratory; a large balance, and an equipment of modern steel rod supports for the lecture room; and a notable increase in the equipment for electrical measurements, including resistances, standard capacities and inductances, and galvanometers from the Leeds and Northrup Co.; ammeters and voltmeters from the American Instrument Co., and from the Weston Electrical Instrument Co., and a standard Ohm by Otto Wolff, and two Weston Standard cells which have been compared with those of the National Bureau of Standards.

PSYCHOLOGY.

Professor Hawthorne.
Mr. Eliot.

Students selecting Psychology as a major, will be advised to take Courses 1, 2, 3, 4 and 9.

Course No. 1 is open to freshmen at the beginning of both semesters.

1. *Elementary General Psychology.* Lectures, discussions. Text-books: Titchener's Primer of Psychology, Thorndike's Psy-

chology. Open to freshmen. No credit earned unless taken two semesters. *Three hours, both semesters.*

2. *Introductory Physiological and Experimental Psychology.* Sensation, attention, and perception. Lectures, discussions, laboratory work. Text-book: Ladd's Physiological Psychology, Wundt's Physiological Psychology. *Three hours, both semesters.*

3. *Advanced Course Lectures.* James' Principles of Psychology. *Three hours, both semesters.*

4. *Logic.* Deductive and Inductive. Elementary, advanced and applied. Lectures, readings and discussions. Text-books: Creighton's Introduction to Logic, Hibben's Deductive and Inductive Logic. *Two hours, both semesters.*

FOR GRADUATES AND ADVANCED UNDERGRADUATES.

The following courses are arranged for alternate years, to meet the requirements of those who have completed the course in colleges or universities, and who wish to pursue the subject still further.

5. *Abnormal and Pathological Psychology.* This course of lectures is designed to discuss especially the physiological and mental conditions of sleep, dreams, and hypnotic, somnambulistic, and other allied states. The theory of illusions and hallucinations will be treated with considerable detail. *Three hours, both semesters.*

6. *Applied Psychology.* Application of modern psychological principles to educational subjects; outlines of the psychology of touch; its use in education; motor abilities; accuracy of movement; fundamental principles of writing and drawing; sight, color teaching; space, form teaching; drawing. *Three hours, both semesters.*

7. *Research Work in Psychology.* The object of this course is such training in accurate introspection, observation, experimenting, and the art of research as is desirable for the general psychologist. *Three hours, both semesters.*

8. *Diseases of the Mind and Nervous System.* This course will be illustrated by models of the brain and other parts of the nervous system; insanity and kindred subjects will be studied in connection with topical lessons. *Three hours, both semesters.*

9. *Comparative Psychology.* This course will aim to trace the development of intelligence as running parallel to the develop-

ment of the nervous system from the lowest forms upward. It will cover the ground of animal psychology, considering it with special reference to the problems of human psychology, so far as these can be stated in terms of the life of lower forms. It will include also a review of the comparative psychology of races as found in their languages and customs. On the mythological side, the logic of the theories of education will be discussed and the relation of philosophy to the biological sciences determined. Lectures, recitations, discussions, reading. Wundt's Human and Animal Psychology, work of various authors, Romanes, Lloyd Morgan. *Three hours, both semesters.*

10. *Aesthetics.* The object of this course is to review the history of the thought on the subject of the beautiful; to give a philosophical account of the foundations upon which the arts rest; and to study scientific art theory in its relations to general philosophical system. Bancroft's History of Aesthetics, Marshall's Pain, Pleasure and Aesthetics, and other works will be read in connection with the course. *Three hours, both semesters.*

EQUIPMENT.

The Psychological Laboratory occupies a large room in McClure Hall for lectures and class demonstrations, and for laboratory experiments, and original research work. There is also an additional small room for storing apparatus. The room is favorably located for experimental work—on the north side of the building, in the second story, having a steady light, and away from noise and interruption.

The laboratory, which is one of the few west of the Mississippi River, has a considerable store of the more simple apparatus, which is being added to by purchase and manufacture in the shop of the University. Among the pieces of apparatus in use are the following: Revolving drum for testing reacting time, time of fatigue; electromagnetic fork and stand; time marker with Deprez signal for sine curves; spark coil; telegraphic key; graphic recorder for nerve action; steadiness gauge for determining steadiness and attention, and used in cross education; æsthesiometer for finding sensory circles in skin space; olfactometer; Galton whistle, for determining the highest audible pitch up to 90,000 vibrations per second; tone tester, audiometer, apparatus for color tests; apparatus in pseudoptics, etc. Additional apparatus of latest make purchased as needed.

COLLEGE OF ENGINEERING

THE FACULTY.

P. L. CAMPBELL, A. B., President.

EDWARD HIRAM MCALISTER, A. M., Dean of the College of Engineering, and Professor of Civil Engineering.

PERCY PAGET ADAMS, B. S., Assistant Professor of Civil Engineering.

FRANK L. BARKER, E. M., Professor of Mining and Metallurgy.

JAMES D. BARNETT, Ph. D., Professor of Political Science.

JOHN FREEMAN BOVARD, M. S., Assistant Professor of Biology.

WILLIAM PINGRY BOYNTON, Ph. D., Professor of Physics.

LUELLA CLAY CARSON, A. M., Professor of Rhetoric.

ROBERT CARLTON CLARK, Ph. D., Professor of History.

TIMOTHY CLORAN, Ph. D., Professor of Romance Languages.

RICHARD HAROLD DEARBORN, M. E., Professor of Electrical and Mechanical Engineering.

EDGAR EZEKIEL DECOU, M. S., Professor of Mathematics.

FREDERICK GOODRICH FRINK, M. S., Professor of Railway Engineering.

FREDERIC STANLEY DUNN, A. M., Professor of Latin.

IRVING MACKAY GLEN, A. M., Professor of English Language and Early English Literature.

WILLIAM L. HAYWARD, Director of Men's Gymnasium.

HERBERT CROMBIE HOWE, A. B., Professor of Modern English Literature.

JOSEPH SCHAFER, Ph. D., Professor of History.

FRIEDRICH GEORG G. SCHMIDT, Ph. D., Professor of German.

FREDERICK LAFAYETTE SHINN, Ph. D., Assistant Professor of Chemistry.

ORIN FLETCHER STAFFORD, A. B., Professor of Chemistry.

ALBERT RADDIN SWEETSER, A. M., Professor of Biology.

FREDERICK GEORGE YOUNG, A. B., Professor of Economics.

JULIA BURGESS, M. A., Instructor in English.

CHARLES W. CONVERSE, M. A., Instructor in Mechanical Engineering.

JAMES CURRIE, M. A., Instructor in Chemistry.

JAMES HENRY GILBERT, Ph. D., Instructor in Economics.
ANDREW W. JACKSON, B. A., Instructor in Physics.
HUGO W. KOEHLER, B. A., Instructor in German.
HEMAN BURR LEONARD, Ph. D., Instructor in Mathematics.
ELLEN M. PENNELL, Instructor in English.
MARY A. PERKINS, M. A., Instructor in English.
CARL A. MCCLAIN, B. S., Instructor in Civil Engineering.
CHARLES ROY REID, B. S., Instructor in Electrical Engineering.
JESSE H. BOND, Assistant in Wood Shop.
FRANK H. SWIFT, Assistant in Machine Shop.

ADMISSION.

For full entrance to the freshman class of the College of Engineering, fifteen units are necessary, of which ten are in required and five in elective subjects. Graduates of high schools who for any reason do not have fifteen units may enter as conditioned freshmen if they have satisfactorily completed at least thirteen units. All conditions must be made up as soon as possible.

The subjects required of all freshmen entering the College of Engineering are as follows:

English	3	units
Algebra	1½	units
Plane and Solid Geometry	1½	units
One Foreign Language	2	units
History	1	unit
Physics	1	unit
Elective	5	units
Total	15	units

GRADUATION.

The degree of Bachelor of Science is conferred upon students of the College of Engineering who have secured 120 semester hours of credit, exclusive of eight semester hours of required physical training, and including the work required by their major professor.

DEGREE OF ENGINEERING.

The professional degree of Engineer is conferred upon graduates of the University, or of other institutions of like rank, who com-

plete a year of professional study beyond the baccalaureate requirements of the department in which the degree is sought, and who present an approved thesis showing ability to do independent work.

EQUIPMENT.

The laboratories, cabinets, workshops, drafting rooms, and the large assortment of instruments for field work in surveying, hydrography, and practical astronomy, offer excellent opportunities for effective work in the courses given.

The Testing Laboratory, established in 1905, is equipped with the necessary machines and appliances for testing the strength of timber, stone, cement and metals, the largest machine being a 200,000-pound universal testing machine.

COURSES OFFERED.

Courses are offered in Civil Engineering, Electrical and Mechanical Engineering, Mining Engineering, and Chemical Engineering. The work of the first two years necessarily consists largely of courses in Mathematics, Physics, Chemistry, Shopwork, and drawing, which are prerequisite to the technical courses proper. Changes from one course to another are permitted in accordance with the general regulations.

Students whose time and means permit are advised to spend two years or more in the College of Arts, taking courses in Mathematics, Physics, Chemistry, French, German, Economics, History, English, and such other subjects as they may desire. In this way they will secure a broader preparation, and by a proper selection of subjects will be able to complete the Engineering course in three additional years.

CIVIL ENGINEERING.

For description of the courses offered in the department of Civil Engineering, see Civil Engineering under Announcement of Courses. The courses embrace Drawing and Descriptive Geometry, Surveying and Geodosy, Mechanics, Highway and Railway Engineering, Hydraulic and Municipal Engineering, and Structural Engineering.

ELECTRICAL AND MECHANICAL ENGINEERING.

For work offered, and description of equipment in detail, see Mechanical and Electrical Engineering under Announcement of Courses.

SCHOOL OF MINES AND MINING.

The University School of Mines was established in 1895, and it has prospered to an extent that makes necessary an enlargement of its work and equipment. New courses are being added, and the importance to the state of mining and allied industries assures a bright future for this branch of the University work. Trips to the mines and mills of the state are a very valuable supplement to the class room and laboratory work, and are receiving greater emphasis than formerly. The Blue River and Bohemia mining districts are close at hand and are well worth visiting. The important mining districts of Southern and Eastern Oregon are also easily accessible and trips to them are extremely helpful.

The Blue Ledge Copper district of Northern California will hereafter be included in the Southern Oregon trip. The underground work necessary in connection with the course in mine surveying, is done on one of these trips and is made very practical.

The main attention for the present will be given necessarily to gold and silver mining and metallurgy, although attention will also be given to the metallurgy of iron, steel and copper. As the number of instructors in the University increases, options will be introduced so that students may specialize in a chosen department of mining.

The demands upon the Mining and Metallurgical Engineer are varied, and it is the policy of the University to give the student the underlying principles of Mathematics, Physics, Chemistry, Mineralogy, Geology, Mining Engineering and Metallurgy, together with some practical knowledge of Civil, Electrical and Mechanical Engineering. The courses will deal with the problems that actually arise in mining, in the treatment of ores, and in smelting.

See announcemnt of courses under Mines and Mining.

CHEMICAL ENGINEERING.

Chemical Engineering is one of the very youngest in the field of special engineering subjects, having been evolved in recent years in response to a constantly increasing demand for men who are not only sufficiently versed in chemical theory to understand the chemistry of technical processes, but who shall at the same time be possessed of such a knowledge of mechanical engineering that they will be enabled to construct whatever machinery or

apparatus may be necessary for the most thorough practical application of chemical principles to the various industrial enterprises of the time.

It is to be seen from this characterization of his work that the function of the chemical engineer is a dual one; it has been, indeed, for the very purpose of uniting in a single individual the peculiar qualifications possessed by the laboratory man upon the one hand and the man of practical affairs upon the other—a union that has been absolutely necessary for the proper co-ordination of laboratory and shop—that the field of Chemical Engineering was created. That the creation has been a wise one is demonstrated every day in the constant improvements that are being made in chemico-technical processes—improvements that are due almost wholly to the efforts of men who have exactly the equipment for work that has been outlined as necessary for the chemical engineer. The extent of the field is so wide, moreover, and the variety of special lines of work that it offers is so great, that it should appeal most strongly to young men inclined toward a scientific-industrial career, and this should be especially true in the Pacific Northwest, where resources enormous in magnitude await development.

The department of Chemistry, in co-operation with the Engineering departments, directs the course in Chemical Engineering. The following is approximately the course followed:

FRESHMAN YEAR.

First Semester.

German 1	5 hours
English 1	2 hours
Mathematics 2	5 hours
Chemistry 1	4 hours

Second Semester.

German 1	5 hours
English 1	2 hours
Mathematics 2	5 hours
Chemistry 1	4 hours

SOPHOMORE YEAR.

First Semester.

German 2	4 hours
Mathematics 4	5 hours

Physics 2	4 hours
Physics 3	1 hour
Chemistry 3	4 hours

Second Semester.

German 2	4 hours
Mathematics 4	5 hours
Physics 2	4 hours
Physics 3	1 hour
Chemistry 3	4 hours

JUNIOR YEAR.

First Semester.

Mechanics 17	3 hours
Mechanical Drawing 1	2 hours
Descriptive Geometry 2	2 hours
Elementary Surveying 3	3 hours
Advanced Analytical Chemistry 12	3 hours
Organic Chemistry 5	3 hours

Second Semester.

Mechanics 17	3 hours
Mechanical Drawing 1	2 hours
Steam Boilers 32	3 hours
Elementary Surveying 3	3 hours
Advanced Analytical Chemistry 12	3 hours
Organic Chemistry 5	3 hours

SENIOR YEAR.

First Semester.

Machine Shop 6	1 hour
Electrical Engineering 11	2 hours
Industrial Electricity 12	3 hours
Industrial Chemistry 14	2 hours
Physical Chemistry 16	3 hours
Electives and Thesis	5 hours

Second Semester.

Strength of Materials 6	4 hours
Electrical Engineering 11	2 hours
Industrial Electricity 12	3 hours
Industrial Chemistry 14	2 hours
Physical Chemistry 16	3 hours
Elective and Thesis	3 to 5 hours

The course outlined above, covering four years, leads to the degree of Bachelor of Science. Where time and means will permit, the student is advised to plan for a five years' course leading to the degree of Chemical Engineer. In that event the work might well embrace other courses in the College of Literature, Science and the Arts, particularly that of the first year, according to the individual tastes or needs of the student, as well as additional Engineering work which it is impossible to include in the shorter course.

DEPARTMENTS OF INSTRUCTION

ANNOUNCEMENT OF COURSES FOR 1909-10

CIVIL ENGINEERING.

Professor McAlister.
Professor Frink.
Assistant Professor Adams.
Mr. McClain.

Students taking their major in Civil Engineering will usually find it advantageous to arrange their work about as follows:

First year—Trigonometry and Analytical Geometry, General Chemistry, Drawing, Shopwork, Elective 2 to 4 hours.

Second year—Calculus, Elementary Surveying, Descriptive Geometry, Graphic Statics, Shopwork, Elective 4 or 5 hours.

Third year—First semester: Topographic Surveying, Analytical Mechanics, Railroad Surveying, Elective 4 or 5 hours. Second semester: Topographic Surveying, Strength of Materials, Stresses in Framed Structures, Analytical Mechanics, Elective 2 or 3 hours.

Fourth year—First semester: Masonry, Bridge Design, Hydraulics, Elective 5 or 6 hours. Second semester: Elective 15 hours.

The prerequisites noted in connection with the following courses will be found described under the appropriate departments.

DRAWING AND ARCHITECTURE.

1. *Mechanical Drawing.* Use and care of instruments; plain lettering; elementary projections of points, lines, surfaces and solids, isometric projections; simple working drawings; shading; section lining; blue prints. Six hours in drafting room. Freshman year. Prerequisite for Engineering students.

Two hours, both semesters.

2. *Lettering.* Extended practice in various styles of lettering commonly used on working drawings. Three or six hours in drafting room.

One hour both semesters, or two hours one semester.

3. *Freehand Drawing.* Application of the principles of perspective by direct observation. Pencil drawing from models and from nature. *Two hours, first semester.*

4. *History of Architecture.* A review of the conditions and motives that have given rise to the different types of architecture. *Three hours, both semesters.*

5. *Descriptive Geometry.* Orthographic projections of points, lines and solids; traces of lines, planes and single-curved surfaces; cylinder, cone and double-curved surfaces of revolution; intersection of solids by planes and development of surfaces; intersection of solids by solids; applications. Open to students who have had Course 1. Prerequisite for all Engineering students. Drafting room and lectures, 6 hours per week.

Two hours, first semester.

6. *Shades and Shadows.* Practical methods of finding shadows, with special reference to architectural problems. Open to those who have had Courses 1 and 5. *Two hours, second semester.*

7. *Perspective.* Analytical study of the theory and practice of perspective principles. Practical methods of application. Open to those who have had Courses 1 and 5.

Two hours, second semester.

8. *Orders of Architecture.* A study of the character and proportions of the five orders of architecture. Open to those who have had Courses 1 and 5. *Two hours, both semesters.*

9. *Machine Drawing.* Form and proportions of machine details as determined by custom and empirical formulæ, rather than by considerations of theoretical design. Open to those who have had Course 1. *Two hours, both semesters.*

10. *Details of Construction.* Scale and full-size drawings showing the methods of building construction. Details of windows, doors, exterior and interior finish, etc. Open to those who have had Course 1. *Three hours, first semester.*

11. *Planning of Dwellings.* This course is designed to follow Course 10 and comprises the drawing of plans and elevations, with

a study of the arrangement and architectural effects. Writing of specifications. *Two hours, second semester.*

SURVEYING.

21. *Elementary Surveying.* Adjustment and use of instruments; land survey computations; reduction and platting of field notes; simple earthwork computations; mapping; differential and profile leveling; compass surveys; azimuth traverses; stadia measurements; simple triangulation, etc. Recitations, one hour per week; field and office work, six hours per week. Open to students who have had Freshman Mathematics and Course 1. Required of all Engineering students. *Three hours, both semesters.*

22. *Topographic Surveying.* Horizontal and vertical location of points; representation of relief by contours; determination of latitude, time, azimuth and longitude; triangulation; precise leveling; reduction formulas for surveys and map projections; adjustment of errors; details of field work; map drawing. Lectures and recitations, one hour; field work, six hours per week. Open to students who have had Course 21 and Calculus. Required of students in Civil and Mining Engineering.

Three hours, both semesters.

23. *Astronomical Practice.* More extended practice than can be given in Course 22, in determining time, latitude, longitude and azimuth. Additional methods are also developed. Three hours field practice. Open to those who have had Course 22.

One hour, either or both semesters.

STRUCTURAL ENGINEERING.

41. *Graphic Statics.* Graphic methods for solving problems in the equilibrium of rigid bodies; direct applications of the general principles are made to the determination of stresses in framed structures subject to fixed loads; of shear and bending moment in beams; and of the centroid and moment of inertia of plane areas. Six hours per week in drafting room. Open to students who have had 1 and 5. Prerequisite for all Engineering students.

Two hours, second semester.

42. *Strength of Materials.* (a) Elements of the mathematical theory of elasticity, with applications to beams, columns, shafts, etc. Lectures and recitations, two hours per week.

(b) Testing Laboratory. Each student is required to make a series of tests of timber, wrought iron, cast iron and steel, in tension, compression, cross-bending and shear. Laboratory, six hours per week. Open to students who have had Calculus, Analytical Mechanics, and Shopwork. Required of all Engineering students.

Four hours, second semester.

43. *Stresses in Framed Structures.* Determination by graphic and analytical methods of stresses in trusses and other framed structures, including structural details. Drafting and computations, nine hours per week. Open to students who have had Calculus and Course 41, and who have had or are taking Analytical Mechanics. Required of Civil Engineering students.

Three hours, second semester.

44. *Masonry.* Materials, foundations, piers and abutments, retaining walls, culverts and dams. Lectures, computations and drafting, and laboratory work in testing stone, brick, cement, etc.; in all, nine hours per week. Open to students who have had Calculus, Analytical Mechanics, Elementary Chemistry, and Courses 1, 5 and 42. Required of Civil Engineering students.

Three hours, first semester.

45. *Reinforced Concrete.* Theory, computation and design of reinforced concrete beams, columns, slabs, arches, retaining walls, etc. Open to students who have had Course 44.

Three hours, second semester.

46. *Structural Design.* Designs, drawings, bills of materials and estimates of cost of girders and trusses of wood and steel. Drafting and computations, nine hours per week. Open to students who have had Courses 42 and 43 and Shopwork. Required of Civil Engineering students. *Three hours, first semester.*

47. *Advanced Bridge Design.* Courses 43 and 46 are extended to include the more complex forms of trusses, cantilever, and swing bridges for railways. Drafting and computations, lectures and assigned readings; in all, fifteen hours per week. Open to students who have had Courses 43 and 46.

Five hours, second semester.

48. *Masonry Arches.* Computation of stresses, designs, and drawings for arches of stone, brick or concrete. Drafting room, six hours per week. Open to students who have had Courses 42 and 44. *Two hours, second semester.*

HYDRAULIC AND MUNICIPAL ENGINEERING.

61. *Hydraulics.* Hydrostatic pressure in pipes, tanks, reservoirs, etc.; fluid motion; dynamic pressure, theoretical and empirical formulas for flow of water through orifices, over weirs, through tubes, in pipes, conduits, canals and rivers; measurements of water power, with brief reference to common waterwheels and turbines. Open to students who have had Calculus, Analytical Mechanics, and Course 21. Required of Civil Engineering students.

62. *Hydraulic Motors.* The mathematical theory and design of modern types of reaction turbines and impulse wheels, with a brief study of centrifugal pumps. Must be preceded by Course 61. *Three hours, second semester.*

63. *Water Supply Systems.* Amount of water required; available sources of supply; storage reservoirs and dams; purification works; supply pipes and conduits; city mains and branches; pumping machinery, operation and maintenance. Lectures and recitations, two hours per week; drafting and computations, nine hours per week. Open to students who have had Course 61. *Five hours, second semester.*

64. *Elements of Water Supply Design.* Course 63 abbreviated for students who desire a general knowledge of the subject, but do not care to make a specialty of it. Lectures, drafting and computation; in all, six hours per week. Open to students who have had Course 61. *Two hours, second semester.*

65. *Sewerage and Drainage Systems.* Detailed designs of systems; disposal works and drains; separate and combined systems; rainfall and run-off; estimating increase of population, sewerage per capita; ground water; grades and self-cleansing velocities; use of formulas and diagrams; outfalls; disposal works. Lectures and recitations, two hours per week; computation and drafting, nine hours per week. Open to students who have had Course 61. *Five hours, second semester.*

66. *Elements of Sewer Design.* Course 65 abbreviated. Lectures, drafting and computations; in all, six hours per week. Open to students who have had Course 61. *Two hours, second semester.*

67. *Irrigation Engineering.* Hydrography, including stream measurements; rainfall and run-off; evaporation, absorption, and seepage; duty of water; sub-surface water sources, artesian wells. Canals and canal works; surveys, alignment, slope and cross sec-

tions of canals; headworks and diversion weirs; distributary canals or ditches. Storage reservoirs, location, capacity and construction; earth, loose rock and masonry dams, waste ways and outlet sluices. Pumping water for irrigation. Recitations, three hours; field work and drafting, six hours per week. Open to students who have had Courses 61, 22, 42 and 44. *Five hours, second semester.*

RAILWAY AND HIGHWAY ENGINEERING.

81. *Railroad Surveying.* Reconnaissance, preliminary survey, location survey; simple curves; compound curves; transition curves; vertical curves; earthwork; switches and crossings. Recitations, two hours; field and office work, nine hours per week. Open to students who have had Course 21. Required of Civil Engineering students. *Five hours, first semester.*

82. *Economic Railway Location.* A study of the sources of income; operating expenses; distance, grades and curvature as affecting first cost; maintenance and operation; relative power of locomotives; rolling stock, train resistance, etc. Assigned readings, reports and recitations. Open to seniors or graduates who have had Course 81. *Two hours, second semester.*

83. *Roads and Pavements.* Survey and location of roads; grades; drainage; foundations; road coverings; crushed rock and gravel. Stone, wood, asphalt and brick pavements; laying out city streets; footwalks, curbs, gutters, maintenance, repair, cleaning, and watering. Recitations two hours per week. Open to students who have had Courses 21, 44 and 61. *Two hours, second semester.*

LABORATORY FEES.

Second Semester.

42. Testing Laboratory $2.50
22. Topographic Surveying 2.50

Key deposit for Mechanical Drawing, $1, refunded at the end of the course on the return of the key.

ELECTRICAL AND MECHANICAL ENGINEERING.

Professor Dearborn.
Mr. Converse.
Mr. Reid.
Mr. Bond.
Mr. Swift.

The following courses in Electrical and Mechanical Engineering are offered.

In connection with these, the student takes courses as follows:

Advanced Algebra, Trigonometry, Analytical Geometry, Calculus, and Analytical Mechanics in Mathematics; Course 1 in Chemistry; General Physics, Electricity and Magnetism, and Electrical Testing in Physics; Mechanical Drawing, Descriptive Geometry, Graphic Statics, Surveying, Machine Design, Hydraulics, and Strength of Materials in Civil Engineering. The student is at liberty to elect courses in other departments for which he may be prepared and according to the time at his disposal.

An outline of the courses in Electrical and Mechanical Engineering is given below to indicate a suitable sequence:

First year—Algebra, Trigonometry, Analytical Geometry; Chemistry, English, Mechanical Drawing, Shopwork.

Second year—Calculus, General Physics, Descriptive Geometry, Graphic Statics Electrical Engineering 11, Shopwork.

Third year—Direct Current Machinery, Alternating Current Machinery, Electricity and Magnetism, Electrical Testing, Electrical Laboratory 24 and 25, Elementary Surveying, Steam Engines and Boilers, Analytical Mechanics, Machine Design, Mechanical Laboratory 41.

Fourth year—Telegraphy and Telephony, Street Railways, Electric Power Transmission, Electrical Design 22, Electrical Laboratory 26, Thermodynamics, Hydraulics, Strength of Materials, Alternating Current Motors, Internal Combustion Motors, Thesis.

Courses are numbered as follows:

Shopwork, 1 to 10.
Electrical Engineering, 10 to 30.
Mechanical Engineering, 30 to 50.

1. *Woodworking.* Use and care of tools. Mitering, woodturning. Three hours a week in the shops.

One hour, one semester.

2. *Pattern Making.* Selection of woods. Core boxes; draft, shrinkage, etc. Three hours a week in the shops.

One hour, one semester.

3. *Forge Work.* Forging, welding, tool-dressing, tempering, annealing. Three hours a week in the shops.

One hour, two semesters.

4. *Foundry Work.* (Not given in 1909-10.) Moulding, coremaking. Management of cupola and crucible furnace. Three hours a week in the shops. *One hour, two semesters.*

5. *Machine Shop.* Bench work, chipping, filing, etc. Three hours a week in the shops. *One hour, one semester.*

6. *Machine Shop.* Exercises on lathes, shaper, planer, milling machine, drill press, etc. Three hours a week in the shops.

One hour, one semester.

7. *Machine Shop.* Construction and erection of apparatus and machines. Three hours a week in the shops. Prerequisites, Courses 5 and 6. *One hour, both semesters.*

8. *Shop Lectures.* Given at various times in connection with the shop work.

10. *Electricity.* A brief general course for non-engineering students, designed to cover the simpler applications of electricity to lighting, heating, and power. Open to all students.

One hour, one semester.

11. *Electrical Engineering.* An introductory course for Electrical Engineers designed to lay the foundation for further analytical work. *Two hours, both semesters.*

12. *Industrial Electricity.* A general course in direct and alternating currents, with a minimum of theory, designed with especial reference to the application of electricity to industrial operations. Open to students of junior standing.

Three hours, both semesters.

13. *Direct Current Machinery.* Theory and design of series, shunt, and compound direct current dynamos and motors. Discussion of construction and operation of direct current machinery

and its application to electric lighting and power. Prerequisites, Course 4 Mathematics, and Courses 2 and 3 Physics.

Four hours, first semester.

14. *Alternating Current Machinery.* The theory of generation of single phase and polyphase alternating currents. Graphic problems, measurement of power, theory of transformers, rotary converters, synchronous and induction motors. Prerequisite, Course 13. *Four hours, second semester.*

15. *Electric Power Transmission.* A study of the transformation, transmission, and distribution of electric energy. Prerequisites, Courses 13 and 14. *Two hours, first semester.*

16. *Street Railways.* A course in street railway design, construction and operation. (a) Direct current practice. (b) Alternating current development. Prerequisite, Courses 13 and 14.

Two hours, second semester.

17. *Alternating Current Motors.* A complete discussion of the various types of alternating current motors. Prerequisite, Course 14. *Two hours, first semester.*

18. *Electric Lighting.* A study of the various electric illuminants and their adaptations to exterior and interior lighting. Open to students of junior standing. *Two hours, first semester.*

19. *Telegraphy and Telephony.* Fundamental principles of electric signalling, with illustrations of modern commercial practice. Prerequisite, Courses 11, 12 or 13.

Two hours, second semester.

20. *Thesis.* Preliminary reading and investigation is done during first semester. Subjects must be chosen and approved before the first Monday in November. *Two hours, second semester.*

22. *Electrical Design.* Computations and design of electrical apparatus. Prerequisites, Courses 13 and 14.

One hour, second semester.

23. *Electrical Laboratory.* Industrial. A brief course given in connection with Course 12. Two hours in the laboratory.

24. *Electrical Laboratory.* Direct current. A laboratory course for the experimental study of direct current dynamos and motors; their operation, characteristic curves, and efficiencies. Taken in connection with Course 13. Three hours in the laboratory.

One hour, first semester.

25. *Electrical Laboratory.* Alternating current. Laboratory tests of single and polyphase generators, induction and synchronous motors, transformers, frequency changers, etc. Taken in connection with Course 14. Three hours in laboratory.

One hour, second semester.

26. *Electrical Laboratory.* Advanced laboratory work, largely on alternating current machinery. Prerequisite, Courses 24 and 25. Three hours in laboratory. *One hour, first semester.*

29. *Inspection Trip.* A trip to the principal power plants and industrial centers of the Northwest, taken during Easter vacation every other year.

30. *Prime Movers.* A course in the practical adaptations of steam engines, boilers, pumps, gas and gasoline engines, steam turbines, etc., to general engineering work. Open to students of junior standing. *Two hours, both semesters.*

31. *Steam Engines and Boilers.* The theory, construction, and operation of the best types of engines and boilers. A study of valve gears, steam distribution, regulation of engines, and turbines. Fuel determination. Discussion of condensers, mechanical stokers, and chimneys. Prerequisite, Course 4 in Mathematics, and Courses 2 and 3 in Physics. *Two hours, both semesters*

34. *Thermodynamics.* The mechanical theory of heat and its application to steam, gas and hot-air engines; refrigerating machines and air compressors. Required in Mechanical Engineering. Prerequisite, Course 31. *Two hours, both semesters.*

35. *Pumps.* A discussion of the various forms of pumps in common use. Construction, operation, care, and management, etc.

Two hours, second semester.

36. *Steam Power Plant Design.* Including selection and installation of equipment. *One hour, second semester.*

37. *Compressed Air and Its Applications.* A discussion of its physical properties, thermodynamics, compression, transmission and uses as a motive power and a refrigerating agent. Prerequisite, Course 2 in Physics, and Course 2 in Mathematics.

Two hours, first semester.

38. *Internal Combustion Motors.* Their theory, construction and operation will be considered in detail. Prerequisites, Mathematics 4, and Physics 2 and 3. *Two hours, both semesters.*

39. *Gas, Gasoline and Oil Engines.* A general course for non-engineering students covering operation, care, and management of stationary, automobile and marine engines.

Two hours, both semesters.

40. *Mechanical Laboratory.* Prime movers. A brief course given in connection with Course 30. Two hours in laboratory.

One hour, second semester.

41. *Mechanical Laboratory.* Experiments chiefly in Steam Engineering. Engine, boiler and pump tests. Indicators; dynamometers; fuel calorimetry; valve setting; flue gas analysis. Three hours in laboratory. Taken in connection with Course 31.

One hour, both semesters.

SHOP AND LABORATORY FEES.

Three dollars a semester for each course in shops and laboratories.

MINING AND METALLURGY.

Professor Barker.

Students in Mining Engineering will ordinarily arrange their work as follows:

FIRST YEAR.

Advanced Algebra, Trigonometry, Analytical Geometry.
General Chemistry.
Geology.
Mechanical Drawing.
Shop Work (forge).
English.
Physical Training.

SECOND YEAR.

Calculus.
Analytical Chemistry.
Crystallography and Mineralogy.
Physics, or Descriptive Geometry.
Surveying.
Physical Training.

THIRD YEAR.

Petrology and Field Geology.
Mining.
Metallurgy.
Assaying and Mine Surveying.
Topographic Surveying.

FOURTH YEAR.

Economic Geology.
Metallurgy.
Thesis.
Electives for balance of course.

1. *Mining.* Placer Mining, Dredging, Prospecting, Shaft Sinking, Mining Methods, Timbering, Tunnelling, Ventilation, Ore Handling, Mining Machinery and miscellaneous mining topics are given in lectures. The current mining literature is also read and discussed. *Three hours, both semesters.*

2. *Mine Surveying.* The applications of surveying to the problems of mining. One laboratory period each week is devoted to laying out claims and surveying them for patent. Ten days are spent in the neighboring mines doing the actual underground surveying that an engineer will be called on to do. One hour each week is devoted to lectures. Prerequisite, Surveying.
Three hours, second semester.

3. *Metallurgy.* General Metallurgy. The preparation of ore for treatment in the furnace. Fuels, refractory materials, furnaces of various types and a brief study of the treatment of the various ores by fire methods of reduction. Prerequisites, General and Analytical Chemistry, and Mineralogy.
Three hours, first semester.

4. *Ore Dressing.* The preparation of ores by the processes of milling. Richards' "Ore Dressing" is used as the basis of the work. *Three hours, second semester.*

5. *Assaying.* The methods of fire assaying for gold, silver and lead. One lecture, two laboratory periods.
Three hours, first semester.

6-7. *Metals.* A course will be offered each semester on one of the following metals: Gold and silver, copper, lead, iron and steel, or zinc. This will be open to those who have completed Courses 3 and 4, and will consist of an intimate study of the metal and its metallurgy. *Hours to be arranged.*

SCHOOL OF EDUCATION

FACULTY.

The faculty of each school or college consists of the President of the University, the professors, assistant professors, and instructors taking part in the work.

AIM.

The School of Education aims:

1. To train teachers for the high schools of Oregon.

2. To train supervisors, principals, and superintendents, who in addition to the mastery of elementary methods required by the normal schools need an acquaintance with certain social, economic and educational data which can only be obtained in institutions of a college rank. Those who have graduated from normal schools and have had some experience teaching are the best adapted for this work.

3. To acquaint the students of the University who are preparing for other professions and occupations with the information necessary to the solution of the chief educational problems now before the public.

ADMISSION.

The requirements for admission to the School of Education are the same as those for admission to the College of Literature, Science and the Arts.

GRADUATION.

The degree of Bachelor of Arts is conferred upon the students of the School of Education who have secured 120 semester hours of college credit, exclusive of four semester hours required in physical training and including the work required by the major professor in order to secure a University teacher's certificate entitling the graduate to the support of the University. Certain other requirements specified below must be met.

EQUIPMENT.

The equipment available for students in the School of Education consists of the following:

1. Collection of late eighteenth and late nineteenth century text-books, 100 volumes.

2. Collection of contemporary texts, elementary and high school, 800 volumes.

3. Collection of state, city school reports, college and other catalogues, 1,200 volumes.

4. Collection of sources of educational history 1815-1850, 200 volumes.

A special club room has been provided where the collections and the contemporary literature will be at the service of the students.

TRAINING OF HIGH SCHOOL TEACHERS.

1. Academic work. Each student expecting to teach in high schools should prepare to teach some one subject as a specialist. As most of the Oregon high schools are small, candidates should prepare themselves by at least two years' work to teach subjects allied to their specialty. As the entire high school course is much too wide to be covered by any one student, the following division is useful:

Mathematical-Scientific Group—Mathematics, Physics, Geology, Chemistry, Biology.

Historical-English Group—History, English Literature, Latin and German.

Foreign Language—Latin, German, English, History.

No student will be recommended to teach any subject in a high school unless he has received credit for at least two years' work in that subject in the University. No student will be recommended to teach Foreign Languages without at least four years' work in language departments.

2. Professional work.

A. Special courses in method are offered by different departments as follows: English Composition, English Literature, History, Physics, Mathematics, Latin, German.

B. Courses on the historical, psychological, and sociological aspects of education by the department of Education as follows:

Semester courses on the following courses of education:

1. Educational psychology and school hygiene.
2. Natural history of childhood and adolescence.
3. History of modern educational principles.
4. Secondary education, its functions, its history and organization, school management as applied to secondary schools.

3. Practice work.

Practice work to the extent of at least one semester in neighboring high schools, which work shall be under the direction and supervision of the University department of Education. Weekly conferences shall be held. Credit for this course. Open to seniors.

4. University teacher's certificates.

Students who have satisfied the requirements for an A. B. degree, have taken the professional courses specified and completed the practice work satisfactorily shall be entitled to a University Teacher's Certificate for high schools. This certificate shall specify the subjects which the graduate is competent to teach. During the first year of operation, the department may waive certain of the professional requirements.

TRAINING ON EDUCATIONAL PROBLEMS.

1. Academic work. Only students of maturity and experience will be considered in this connection. The academic work related most directly to the work of supervision consists of at least the first of fundamental courses in Political Science, Economics, and Sociology and Psychology, which will be required for the University Teacher's Certificate in Supervision.

2. Professional. The following professional courses are requisite:

(a) Educational Psychology, and school hygiene.
Natural history of childhood and adolescence.
(b) History of modern educational principles.
The social problems in connection with education.
(c) Educational administration in Europe and America.
(d) Growth and structure of elementary curriculums.

3. Practice. An examination of city systems in the Pacific Northwest. Inspection and reports.

TRAINING FOR SUPERVISION WORK.

1. A course of thirty lectures open to all advanced students of the University shall be given each year.

SUMMER SCHOOL

FACULTY.

The faculty of each school or college consists of the President of the University, the professors, assistant professors, and instructors taking part in the work.

OBJECT.

The principal object of the Summer Session of the University of Oregon will be to furnish instruction suitable to the needs of those who are not able to attend the University during the regular session, namely, the high school and upper grade teachers of Oregon, and to place its valuable equipment at their service. The second object will be to give to students who need to do so, a chance to gain University credit. The departments giving work are those most nearly allied with the high school course. Two lines of work will be offered by each, the first designed primarily for teachers, and the second for University students.

ADMISSION.

There will be no formal requirements for admission. Any person who can satisfy the instructor that his preparation is sufficient to enable him to profit by the work will be eligible.

EDUCATIONAL FACILITIES.

The University library and laboratories will be open to all students. The library contains over 20,000 bound volumes and several thousand pamphlets. The reading room is supplied with all the principal magazines and periodicals. The library will be kept open all day. Direct access to the shelves is permitted all students. The city library will also be available.

A special course of lectures by prominent educators of the state has been arranged for the session. These will be free to all students.

COURSES OFFERED.

Courses will be offered in the following subjects: Botany, including Nature study; Chemistry and Physical Geography, Edu-

cation, English Literature, History, Latin, Mathematics, Modern Languages, including German, French and Spanish, Philosophy and Physics. All of the equipment of the University will be at the service of the students.

LOCATION AND ENTERTAINMENT.

The University is well located to afford a pleasant place for summer study. The temperature of the upper Willamette Valley is never excessive, and usually during July is made exceptionally pleasant by a cool coast breeze. The mountains are not far away. The race and river afford delightful opportunities for boating and picnicking. The tennis courts on the campus offer athletic enjoyment. The city is surrounded by numerous points of interest to the student and lover of nature.

CREDIT FOR WORK.

Candidates for a degree in the University will receive credit for work done in the summer session, provided their work satisfies the department and they pass the examination held at the end of the course in which the credit is desired. A total of seven semester hours may be allowed for the work of a session.

CORRESPONDENCE SCHOOL

FACULTY.

P. L. CAMPBELL, B. A., President.
LEWIS R. ALDERMAN, B. A., Director of the Correspondence-Study Department, and Professor of Education.
PERCY PAGET ADAMS, B. S., Assistant Professor of Civil Engineering.
WILLIAM PINGRY BOYNTON, Ph. D., Professor of Physics.
EDGAR E. DECOU, M. A., Professor of Mathematics.
HERBERT CROMBIE HOWE, B. A., Professor of English Literature.
HEMAN BURR LEONARD, Ph. D., Instructor in Mathematics.
JOSEPH SCHAFER, Ph. D., Professor of History.
HENRY DAVIDSON SHELDON, Ph. D., Professor of Education.
ALBERT RADDIN SWEETSER, M. A., Professor of Biology.
FREDERICK GEORGE YOUNG, B. A., Professor of Economics and Sociology.
MOZELLE HAIR, B. A., Assistant Instructor in English Literature.
MABEL COOPER, B. A., Assistant Secretary Correspondence Department.
MIRIAM VAN WATERS, B. A., Assistant in Correspondence Department.

GENERAL INFORMATION.

The constant aim of the Regents has been to make the University serve the people of the State to the fullest possible extent —to give every man a chance to get the highest education possible at the smallest practical cost—to bring the University and the home in close touch. With this purpose in mind, the University has broadened its field as its resources have permitted. The summer session was opened for the admission of those who had not the time or means to take the work as students during the regular session. A step of still greater importance is the correspondence-study department, established in 1907. To the courses already offered, the University plans to add others as fast as its resources will permit.

FOR WHOM INTENDED.

The correspondence courses are especially intended for:

Teachers.

Students preparing for college or university.

Women's Clubs.

Teacher's Groups.

Granges.

Home makers.

Engineers.

METHOD.

The method of work is as follows: The student who wishes to undertake the correspondence study, should notify the Correspondence-Study Department, of the course or courses which he may desire, enclosing at the same time the required fee, and using the required blank application form. Upon receipt of the application, the first lesson will be sent, with instructions for study, methods of preparation, and directions for returning. Each lesson will be returned to the student after it has been inspected by the instructor. Lists of books, assignments for reading, and all needed assistance will be furnished throughout the course.

Examinations are optional with the student, but must be taken where credit is desired. Examinations will be held at the University, or under conditions approved by the University and will be equivalent to corresponding examinations for entrance or college credit with the University.

Students may begin correspondence courses at any time. No preliminary examinations are required. All that is needed is a good elementary education and a willingness to study.

COURSES OFFERED.

The following correspondence courses are offered: English Classics, Shakespeare, Pedagogy and Psychology, Botany, Physiology, Oregon History, European History, Elementary Algebra, Plane Trigonometry, Analytic Geometry, Teaching of High School Mathematics, Algebra for Teachers, Geometry for Teachers, Mechanical Drawing, Physics, Economics, School Administration and Supervision, Special Methods of Teaching.

These courses are prepared by members of the University Faculty and each course represents a definite amount of work equivalent to the credit that is given at the University, either entrance or college.

EXPENSE.

The announcement of the Correspondence-Study Department fees for the year 1909-10 will be made in the regular number of the Correspondence School catalogue, which will be issued about September 1, 1909.

All books needed in these courses are bought by the student. If the local dealer does not carry the required books they can be purchased from the J. K. Gill Company, Portland, Oregon, either directly or through the local dealer.

Do not send money to the University for books.

CREDIT.

On the completion of a course, including a satisfactory examination paper, a certificate of credits earned will be given the student.

CORRESPONDENCE.

Address all communications to the Correspondence-Study Department, University of Oregon, Eugene, Oregon. A complete catalogue of the Correspondence School will be sent on request.

SCHOOL OF MUSIC

THE FACULTY.

P. L. CAMPBELL, A. B., President.
IRVING M. GLEN, M. A., Dean.
EVA I. STINSON, B. Mus., Instructor in Voice.
GRACE CAMPBELL, Instructor in Voice.
MARY MORGAN, B. Mus., Instructor in Piano.
LEROY GESNER, Instructor in Violin.
ALBERTA CAMPBELL, Assistant Instructor in Piano.
INA WATKINS, Assistant in Piano.
ETHEL EVANS, B. Mus., Assistant in Piano.
NELLE MURPHY, B. Mus., Assistant in Piano.

REGISTRATION.

All students must register with the dean.

INSTRUCTION.

Instruction is given by private lessons or in classes of two or three. While the class instruction is valuable, the best results are obtained from private lessons. These lessons are thirty minutes in length, and, where it is at all possible, a student should plan to take at least two lessons per week.

FEES.

All fees for instruction are payable to the dean monthly in advance. Lessons lost for reasons acceptable to the instructor, may be made up at the instructor's convenience. No deductions will be made from the monthly charge. Single lessons will be charged at double the monthly rate. The fee for lessons with instructors is five dollars per month. A smaller fee is charged for work with assistant instructors. This charge is on the basis of one lesson a week.

COURSES.

The courses are arranged so that the student may become an independent performer and a thorough musician. There are three

lines of major work: piano, voice, and violin. These courses are to be supplemented by work in theory, harmony, counterpoint, and composition. Courses are offered also in elocution and public speaking, upon registering in the University as a special or regular student.

ENTRANCE.

Although students will find it to their advantage to enter at the beginning of the year, they may enter at any time, and tuition will be charged from the time of entrance.

GRADUATION.

Graduation depends upon proficiency, and not upon length of the term of a student's attendance. Students not desiring to pursue the full courses may take special courses in any subject offered. The regular work outlined covers four years.

CATALOGUE.

Those desiring special information in regard to the School of Music will address Professor Irving M. Glen, Dean of the School of Music, Eugene. A catalogue will be sent on application to the Registrar of the University.

HISTORY OF MUSIC.

1. From the age of primitive man to the time of Palestrina (1524 A. D.), tracing the evolution of music as an art in the various countries. This is given in a course of lectures once a week, and is open to all University (college) students as an elective course for one credit, and also to all those studying in the musical department.

2. From the time of Palestrina to the present. Text-book: Ritter or Mathews, with lectures and extracts from the works of different composers. Elective course. Open to all who have taken "Primitive Music." One credit.

THEORY OF HARMONY.

FIRST YEAR.

Ear Training—Notation—Tonality—Intervals—Time—Study—Metre—Rhythm—Chords—Original Melodies.

SECOND YEAR.

Combination of Connection of Chords—Concords—Inversions—Discords—Dominant Sevenths—Harmonizing of Melodies and Basses, given and original.

THIRD YEAR.

Secondary Sevenths, Ninth, Altered and Mixed Chorus—Modulation—Harmonizing of Melodies and Basses (continued)—Inharmonic Intervals—Organ Point—Suspension—Neighboring and Passing Notes—Figuration—Embellished Melody and Harmony.

FOURTH YEAR.

Single Counterpoint—Five Species, in two, three and four parts. Doubles, triple and quadruple Counterpoint.

OTHER INFORMATION.

There are three departments in the School of Music—Piano, Voice, and Violin. These departments offer courses leading to a diploma or a degree, according to the amount of work done.

SCHOOL OF LAW

FACULTY.

P. L. CAMPBELL, A. B., President.
CALVIN U. GANTENBEIN, LL. B., Dean and Lecturer on Criminal Law and Evidence.
WILLIAM B. GILBERT, LL. D., Lecturer on Constitutional Law.
CHARLES E. WOLVERTON, A. B., LL. D., Lecturer on Federal Procedure.
JOHN B. CLELAND, LL. B., Lecturer on Sales and Non-Contract Law.
HENRY H. NORTHUP, LL. B., Lecturer on Pleading, Practice and Probate Law.
MARTIN L. PIPES, A. B., Lecturer on Contracts.
FRANCIS D. CHAMBERLAIN, A. B., LL. B., Lecturer on Corporations and Partnership.
ARTHUR L. VEAZIE, A. M., LL. B., Lecturer on Real Property.
BENJAMIN B. BEEKMAN, A. B., LL. B., Lecturer on Agency.
HARRISON G. PLATT, A. B., Lecturer on Negotiable Instruments.
THOMAS G. GREENE, LL. B., Lecturer on Bankruptcy.
OTTO J. KRAEMER, LL. B., Lecturer on Justice's Court Practice.
CLYDE B. AITCHISON, B. S., Lecturer on Water Rights.
THOMAS O'DAY, LL. B., Lecturer on Bailments and Carriers.
RICHARD W. MONTAGUE, Ph. B., LL. B., Lecturer on Equity.
EARL C. BRONAUGH, A. M., LL. B., Lecturer on Domestic Relations.
ROBERT G. MORROW, Ph. B., Lecturer on Brief-Making and Supreme Court Practice.
WALTER H. EVANS, B. S., LL. B., Assistant United States Attorney, Secretary.

LOCATION.

The Law School is held in the city of Portland, which offers to the student of law many advantages not possessed by other cities. The District and Circuit Courts of the United States hold regular sessions, the four departments of the Circuit Court of the State of Oregon for the Fourth Judicial District, the County

Court of Multnomah County, and the Municipal and Justices' Courts are constantly in session, where questions touching every branch of the law are daily heard and determined.

The lectures are delivered in the Court House in the heart of the city of Portland. Each lecture with the accompanying recitation lasts about one hour. Lectures in the first year are on Mondays, Wednesdays and Fridays at 7:15 P. M.; in the second year, on Tuesdays, Thursdays and Saturdays at 7:15 P. M., and in the third year on Mondays, Wednesdays and Fridays at 8:30 P. M.

The fact that the lectures and other exercises take place in the evening enables bank and government clerks and other persons engaged during the day to avail themselves of the privileges of the school.

REQUIREMENTS FOR ADMISSION.

All persons, irrespective of sex, are allowed to matriculate in the Law School. Applicants for admission to the first year class must be at least eighteen years of age, to the second year class at least nineteen years of age, and to the third year class at least twenty years of age.

Graduates of universities or colleges, and students who have completed an academical or high school course, are admitted to the department without examination as to preliminary requirements, and may become candidates for the degree of Bachelor of Laws. In order to be entitled to this privilege, however, the applicant should present to the secretary of the department evidence that he comes within some one of the classes named, which should be in the form of a diploma or certificate, or a certified copy thereof.

All other applicants will be required to present satisfactory evidence that they are prepared to pursue the work with advantage to themselves and without disadvantage to the school.

At the close of each year students are examined on the subjects pursued during the year, and are not permitted to enter the next higher class unless they attain a general average of seventy per cent on all subjects included in the year.

COURSE OF INSTRUCTION.

The course of instruction extends through a period of three years of nine months each.

The aim of this school is to give its students as thorough and practical an education in the principles of the law as the length of the course will permit, and to prepare them for practice in the courts of any state, but particularly in those of Oregon. Recognizing the advantages and disadvantages of the exclusive use of either the lecture or the case method, the faculty endeavors so to combine lectures with the use of text-books, and especially with the careful study of illustrative cases, as most thoroughly to qualify the student for the active work of his profession.

The lectures are delivered in the evening, and, so far as practicable, students who put themselves into timely communication with the secretary are connected with the best law offices of the city, where they may have an opportunity of familiarizing themselves with the conduct of business and the practical duties of the profession.

The thoroughness of the profession imparted is sufficiently attested by the fact that of the 343 graduates of the Department of Law only three have thus far failed to pass the State Bar examination. The more difficult test of actual practice has been met with almost equal success by the graduates, an unusual number of whom are admitted to be leaders at the junior bar and have held important official positions in various parts of Oregon.

The following is a statement of the subjects upon which instruction is given, with the time devoted to each subject:

FIRST YEAR.

FIRST TERM.

Criminal Law—Clark's Criminal Law. Criminal Code of Oregon. Twenty lectures. Dean Gantenbein.

Domestic Relations—Tiffany's Persons and Domestic Relations. Bellinger and Cotton's Codes of Oregon, Title XLII. Ten lectures. Judge Bronaugh.

SECOND TERM.

Contracts—Clark on Contracts. General Laws of Oregon. Twenty lectures. Judge Pipes.

Agency—Tiffany on Agency. General Laws of Oregon. Ten lectures. Mr. Beekman.

THIRD TERM.

Partnership—George on Partnership. General Laws of Oregon. Ten lectures. Mr. Chamberlain.

Sales—Tiffany on Sales. General Laws of Oregon. Ten lectures. Judge Cleland.

Bailments and Carriers—Hale on Bailments and Carriers. General Laws of Oregon. Ten lectures. Judge O'Day.

SECOND YEAR.

FIRST TERM.

Real Property—Tiedeman on Real Property. General Laws of Oregon. Thirty lectures. Mr. Veazie.

SECOND TERM.

Non-Contract Law—Bishop on Non-Contract Law. General Laws of Oregon. Twenty lectures. Judge Cleland.

Negotiable Instruments—Bigelow on Bills, Notes and Cheques. General Laws of Oregon. Ten lectures. Mr. Platt.

THIRD TERM.

Equity Jurisprudence—Fetter or Bisham on Equity. Bellinger and Cotton's Codes of Oregon, Title VI. Twenty lectures. Mr. Montague.

Corporations—Clark on Corporations. General Laws of Oregon. Ten lectures. Mr. Chamberlain.

THIRD YEAR.

FIRST TERM.

Pleading, Practice and Probate Law—Gould on Pleading. Bellinger and Cotton's Codes of Oregon, Titles I-V, inclusive, Titles VII and VIII, and Title XVI. Thirty lectures. Judge Northrup.

SECOND TERM.

Constitutional Law—Black's Constitutional Law. Twelve lectures. Judge Gilbert.

Justice's Court Practice—Bellinger and Cotton's Codes of Oregon, Title XX. Five lectures. Mr. Kraemer.

Brief-Making and Supreme Court Practice—Five lectures. Judge Morrow.

Bankruptcy—Five lectures. Mr. Greene.

Water Rights—Three lectures. Mr. Aitchison.

THIRD TERM.

Federal Procedure—Hughes' Federal Procedure. Ten lectures. Judge Wolverton.

Evidence—McKelvey on Evidence. Bellinger and Cotton's Codes of Oregon, Titles IX-XI, inclusive. Twenty lectures. Dean Gantenbein.

EXTRACT FROM REPORT OF COMMITTEE ON LEGAL EDUCATION AND ADMISSION TO THE BAR, 1907.

"To the President of the Oregon Bar Association:

In reference to legal education within the State, your Committee notes with satisfaction that the Law School of the University of Oregon, under the management of Hon. C. U. Gantenbein, has within the last year extended its course, so that now three years are required for graduation, thus placing the school more nearly on an equality with schools of legal education in Eastern States. The faculty has also been materially increased and strengthened, and your Committee is of the opinion that the education now offered by this institution is thorough and scientific, and is fully adequate to the needs of the State."

LIBRARY.

The only books with which students are required to provide themselves are those used for purposes of text-book instruction, but they are advised to secure a copy of Bellinger and Cotton's Codes of Oregon in two volumes, as frequent reference is made to the Oregon Statutes in connection with the instruction on all the subjects of the course.

Students in the Law School are allowed to use the Multnomah Law Library in the County Court House, free of charge. This library contains the reports of every State in the Union, the reports of the Federal Courts, and numerous English reports, together with an extensive collection of treatises and text-books, both English and American, and copies of the statutes of the several states and of the United States. New reports, as they are issued, are added, as are new text-books and treatises of merit.

TEXT-BOOKS.

The books required by each student will cost, for new copies of the latest edition, as follows:

FIRST YEAR.

Clark's Criminal Law, Second Edition	$ 3.50
Tiffany's Persons and Domestic Relations, First Edition	3.50
Clark on Contracts, Second Edition	3.50
Tiffany on Agency, First Edition	3.50
Tiffany on Sales, Second Edition	3.50
Schumaker on Partnership, Second Edition	3.50
Hale on Bailments and Carriers, First Edition	3.50
Total	$24.50

SECOND YEAR.

Tiedeman on Real Property, Enlarged Edition	$ 5.00
Bishop's Non-Contract Law, First Edition	5.00
Bigelow on Bills, Notes and Cheques, Second Edition	3.50
Fetter on Equity, First Edition	3.50
Clark on Corporations, Second Edition	3.50
Total	$20.50

THIRD YEAR.

Gould on Pleading, Hamilton's Edition	$ 4.00
Black's Constitutional Law, Second Edition	3.50
Hughes' Federal Procedure, First Edition	3.50
McKelvey on Evidence, First Edition	3.50
Total	$14.50

These books will be found very useful in professional practice, and can be purchased from the secretary at the above prices, which represent the prices charged after the deduction usually allowed to students.

DEGREE.

The Degree of Bachelor of Laws will be conferred upon such students as pursue the full course of three years and pass the required written examinations. Students who have attended another

approved law school for a period equal to one or two years of the course of this school of law will be given due credit for such attendance.

The diploma given to graduates is that of the University of Oregon, signed by the President of the Board of Regents, the President of the University and the Dean of the Law Department.

FEES.

The tuition fee is sixty dollars for the first, seventy-five dollars for the second, and seventy-five dollars for the third year. The tuition is payable in advance at the office of the secretary in three equal installments on or before the first day of each term. Admission to membership in the classes is not permitted until the fees are paid. Regular attendance is required, and no deduction will be made on account of absence or failure to begin at the opening of the year. The final examination fee upon completing the whole course of study, is ten dollars, payable on or before May 1st, 1910.

For students taking special courses the fee will be at the rate of one dollar per lecture, payable in advance. Special students may, on application to the secretary, receive an official certificate of attendance, showing the subject or subjects pursued, and the degree of attainment.

The right to change any or all announcements in this catalogue, except as to fees, is hereby reserved.

Application for admission and requests for further information will be addressed to

WALTER H. EVANS, Secretary,
Attorney at Law,
610-612 Corbett Building, Portland, Ore.

SCHOOL OF MEDICINE

FACULTY

P. L. CAMPBELL, A. B., President.

HENRY E. JONES, M. D., Emeritus Professor of Clinical Gynecology.

WILLIAM JONES, M. D., Emeritus Professor of Clinical Surgery.

SIMEON EDWARD JOSEPHI, M. D., Dean of the Faculty; Professor of Obstetrics and Nervous Diseases.

OTTO SALY BINSWANGER, Ph. D., M. D., Professor of Chemistry and Toxicology.

KENNETH ALEXANDER J. MACKENZIE, M. D., C. M., L. R. C. P. and L. R. C. S., Edin., Professor of Operative and Clinical Surgery.

RICHARD NUNN, A. B., B. Ch., M. D., Professor of Diseases of Eye, Ear, Nose and Throat.

JAMES FRANCIS BELL, M. D., L. R. C. P., London, Professor of Theory and Practice of Medicine.

GEORGE MILTON WELLS, M. D., Professor of Pediatrics.

ANDREW JACKSON GIESY, M. D., Professor of Clinical Gynecology.

GEORGE FLANDERS WILSON, M. D., Professor of Principles and Practice of Surgery and Clinical Surgery.

ERNEST FANNING TUCKER, A. B., M. D., Professor of Gynecology.

EDMOND JOHN LABBE, M. D., Professor of General and Descriptive Anatomy.

GEORGE BURNSIDE STORY, M. D., Professor of Physiology.

ALBERT EDWARD MACKAY, M. D., Professor of Genito-Urinary Diseases.

JAMES CULLEN ZAN, M. D., Professor of Materia Medica and Therapeutics.

ROBERT CLARK YENNEY, M. D., Professor of Histology and Pathology.

SPECIAL LECTURERS

CORTES HOLIDAY WHEELER, M. D., Lecturer on Hygiene.

JAMES OSCAR WILEY, M. D., Lecturer on Physical Diagnosis.

J. ALLEN GILBERT, Ph. D., M. D., Lecturer on Clinical Medicine.

RALPH CHARLES MATSON, M. D., Lecturer on Bacteriology.
RAY WILLIAM MATSON, M. D., Lecturer on Histology.
LUTHER H. HAMILTON, M. D., Lecturer on Electro-Therapeutics.
FRANK M. TAYLOR, A. B., M. D., Lecturer on Dietetics, etc.
J. C. ELLIOTT KING, A. B., M. D., Lecturer on Dermatology.
OTIS BUCKMINSTER WIGHT, A. B., M. D., Lecturer on Clinical Surgery.
WILLIAM HOUSE, M. D., Lecturer on Medical Jurisprudence.
ORVILLE ARTHUR THORNTON, B. S., M. D., Lecturer on Osteology and Syndesmology.
GEORGE F. KOEHLER, M. D., Lecturer on Diseases of Stomach and Intestines (adjunct to Medicine).
ROBERT L. GILLESPIE, M. D., Clinical Lecturer on Insanity, etc.
ALVIN W. BAIRD, M. D., Lecturer on Operative Surgery.

LABORATORY DEMONSTRATORS.

LOUIS ARTHUR SHANE, M. D., Demonstrator of Anatomy.
PERCY JOSEPH WILEY, M. D., Assistant Demonstrator of Anatomy.
THEODORE FESSLER, M. D., Laboratory Demonstrator of Chemistry.
C. J. MCCUSKER, M. D., Laboratory Demonstrator of Physiology.
GUY H. OSTRANDER, B. S., M. D., Laboratory Demonstrator of Pathology.
MARIUS BRECKENRIDGE MARCELLUS, B. S., M. D., Assistant Laboratory Demonstrator of Pathology.
WM. A. SHEA, M. D., Laboratory Demonstrator of Therapeutics.
GEORGE ANDREW CATHEY, Laboratory Demonstrator of Bacteriology.

CLINICAL ASSISTANTS.

CONDON C. MCCORNACK, A. B., M. D.
GEORGE SHATTUCK WHITESIDE, M. D.
GEO. F. KOEHLER, M. D.
C. J. MCCUSKER, M. D.
LOUIS I. WOLF, M. D.

ANNOUNCEMENT

The Medical Department of the University of Oregon was established in 1887, and is a graded school requiring from its students as a condition of graduation, attendance upon *four* full courses of lectures (of at least seven and one-half months each) in a recognized medical college.

The regular session comprises seven and one-half months, divided into two semesters of about equal length, the first commencing about September 15 and ending January 12, and the second commencing January 13 and ending about May 1.

Full particulars as to proper credit, entrance credentials, etc., may be found under the head of "Requirements for Admission." Applicants for matriculation must procure credentials for admission from authorized sources outside this faculty. No entrance examinations will be held by any member of this faculty. Information as to authorized entrance certificates, credit for previous courses of lectures taken in other approved medical colleges, etc., may be found under the head of "Requirements for Admission."

The opening lecture of the twenty-second regular annual session will be delivered at 8 A. M., Monday, September 13, 1909. Students are requested to be in attendance at the commencement of the session, so that they may not lose the benefit of knowledge to be derived from the opening lectures. Attendance upon lectures is obligatory in accordance with the rules laid down by the faculty and set forth in this catalogue.

Special examinations will be held beginning September 16, under the rules, for advancement to second, third or fourth year standing for those entitled to re-examination, who failed to take the examinations or to attain the requisite number of credits in the spring. Students who wish to take the fall examinations must make application to the Dean previously and present themselves at the appointed time.

LOCATION.

The college building, located corner Twenty-third and Lovejoy streets, opposite Good Samaritan hospital, is furnished with the aids to medical education which modern advancement requires. Laboratories for chemical, histological, pathological, bacteriological, physiological and therapeutical work are provided, and arrangements made for special attention to these important practical departments. The dissecting laboratory is most conveniently arranged, is light and airy and is furnished with artificial stone tables of special design and electric fixtures for artificial illumination.

A substantial addition to the building containing a commodious amphitheatre and greatly increased laboratory space, was com-

pleted in September, 1906, and valuable additions to the laboratory apparatus have been made.

The building is heated by hot water and is lighted by gas and electricity. The Twenty-third street electric cars pass the location every few minutes. To reach the college by this line take the Washington street car designated Twenty-third street. St. Vincnt's hospital is only a short distance from the college, and with Good Samaritan hospital across the street the arrangement of college and hospitals for clinical work is a most convenient one.

HOSPITAL CLINICS.

Instruction in medicine and surgery, to be efficient, must combine didactic and clinical teaching, and no opportunities for the last named class of studies are in any sense equal to those offered by the wards of a general hospital.

Our connection, through members of the faculty, with St. Vincent's, Good Samaritan and Multnomah County hospitals, is such as to afford the most enlarged advantages for clinical instruction in the wards of those institutions, members of the medical staff of each being also members of the college teaching corps.

St. Vincent's new hospital is located only a few blocks from the college building on a tract of five acres. The portion now completed and occupied is 260 feet long, an average of 60 feet wide and is six stories in height including the basement. It contains 350 beds and is admirably fitted, in other respects, with the most modern furnishings and appliances.

Good Samaritan hospital is delightfully located near the foot of the western hills. It has recently added a large brick wing which with the portion of the older building still remaining contains over 200 beds. A new operating room and amphitheatre, with the most modern equipment, affords fine clinical facilities. Plans are well forward for an additional new building for this hospital to cost over one hundred thousand dollars.

These hospitals, with the county hospital, and the hospital for Alaska insane, are rich in clinical material of all kinds, and afford opportunities for clinical work and instruction unequaled anywhere in the Northwest.

The close proximity of two of them to the college clusters the buildings for both didactic and clinical instruction, so as to make the facilities very convenient.

Clinics are held every day of each week during the session. Opportunities are given students to make diagnosis of disease and prescribe treatment therefor. Operations of endless variety are performed (in presence of the class), according to the most advanced methods of modern surgery. Students are detailed as assistants in many of these.

Special attention will be given to instructing the student in methods of examination for purposes of diagnosis of both medical and surgical cases and the use of appropriate instruments used for that purpose. "Clinic Conferences" in both Medicine and Surgery have proved very beneficial to the students.

Dispensary clinics will be held daily at the out-patient department, conducted at the college building. These clinics will be attended by Prof. Labbe, Pediatrics; Prof. R. Nunn, Eye, Ear, Nose and Throat; Dr. C. J. McCusker, General Surgery; Dr. Geo. F. Koehler, General Medicine; Dr. Geo. S. Whiteside, Genito-Urinary, Skin and Syphilis; Dr. Otis B. Wight, General Medicine, and Dr. Louis J. Wolf, Gynecology.

Obstetrical clinics are held during the senior year. Each senior student will be given an opportunity to attend and conduct, under proper supervision, cases of mid-wifery. This affords undergraduates a practical knowledge of midwifery, which must prove of great value in their future professional work.

The hospitals already established and in successful operation for many years present excellent facilities for the study of diseases at the bedside, and this branch of instruction will receive the very careful attention of the staff of clinical lecturers connected with the college.

Portland's geographical position is such that its hospitals receive patients from the surrounding territory over a large area of country, and the types of both medical and surgical diseases met with are as various as those to be found in much larger cities.

The faculty, while not disparaging the value of didactic lectures, makes the system of clinical instruction and laboratory work occupy a prominent place in the curriculum, and it will be the aim of its members to make the instruction in all departments as complete and efficient as possible.

In addition to didactic and clinical lectures, instruction will be given by practical work in the dissecting rooms and laboratories, and by repeated oral examinations.

The biological laboratory has been greatly enlarged and new apparatus added. The laboratory courses will include a large amount of practical work in histology, pathology, bacteriology, physiology, materia medica, therapeutics and electro-therapeutics.

Under the new curriculum students will themselves do laboratory work in all these branches under the personal direction of a laboratory demonstrator. Reference to the plan of lectures will indicate the time which will be devoted to this work.

In physiology, laboratory work will be done under the personal supervision of the professor of physiology and Dr. C. J. McCusker. In therapeutics, under Dr. W. A. Shea.

Much attention is given to the "quiz" or recitation feature of the didactic lectures. Under our system, markings for recitations throughout the session are considered in marking the percentage on final examinations.

DEPARTMENTS.

SURGERY.

Surgery in all its various branches will be taught during the third and fourth years as per outline by means of systematic lectures and operations in the presence of the class. In addition there will be demonstrations of all the details of bandaging, dressings, and the application of the various forms of apparatus used in the treatment of diseases, accidents and deformities, including fractures and dislocations. Members of the graduating class will have opportunities to assist in operations and for practice in minor surgery, bandaging, etc. All the usual surgical operations will be demonstrated on the cadaver in a special course by Dr. Alvin W. Baird.

A special practical course will be given in explanation and demonstration of the X-ray in the diagnosis and treatment of disease by Drs. Taylor and Hamilton.

Prof. Geo. F. Wilson will deliver didactic and clinical lectures on Principles and Practice of Surgery, and clinics in Surgery will also be given by Prof. K. A. J. Mackenzie, Dr. Otis B. Wight and the out-patient staff. Prof. Mackenzie will deliver a clinical course upon Operative Surgery and Prof. Wilson will give special attention to clinics on dislocations, fractures and fracture apparatus. Dr. Wight will give special attention to minor surgery and the details of dressings, bandages, etc.

CHEMISTRY AND TOXICOLOGY.

During the first and second years Prof. Binswanger will treat these subjects with special attention to the fundamental principles of Chemistry, Medical and Physiologic Chemistry, Physics and Poisons.

The lectures will be fully illustrated by experiments, and a well equipped chemical laboratory will aid materially in the practical instruction of students in urinalysis and other chemical examinations. A course of practical laboratory work by students is an essential of the requirements. Both freshmen and sophomores will do laboratory work. Dr. Theo. Fessler will assist in the laboratory.

THEORY AND PRACTICE OF MEDICINE.

During the third and fourth years, as per outline, Prof. Bell will bring into prominence, in this branch, the essentials of Theoretical and Practical Medicine, dwelling more particularly upon those subjects which will be likely to prove of most substantial use to the young practitioner, while not neglecting theoretical essentials. Teaching in this branch will be illustrated by clinics at the college and hospitals and out-patient department. Prof. Wells will deliver lectures upon Diseases of Children. Prof. Josephi upon Insanity and Diseases of the Nervous System. Dr. Wheeler upon Hygiene and Dr. J. O. C. Wiley upon Physical Diagnosis. Prof. Bell and Drs. J. A. Gilbert and Condon C. McCornack will hold medical clinics at St. Vincent's and County hospitals. Dr. R. L. Gillespie will hold clinics on Insanity at Crystal Springs Sanitarium. Dispensary clinics will be conducted daily at the out-patient department by the out-patient staff. Dr. Koehler will give a special course on diseases of stomach and intestines with practical demonstration of methods of examination.

Other special clinics will be held as announced from time to time during the progress of the course.

ANATOMY.

Prof. Labbe will give instruction in General and Descriptive Anatomy. This subject will be considered during first and second years and finished at the end of the second year. The lectures and recitations will be illustrated by actual dissections, charts and drawings, and special attention will be given to the surgical

relations of the subject. The new amphitheatre affords improved facilities for anatomical lectures from the cadaver. During the first year a special course on Osteology and Syndesmology by Dr. Thornton will be completed.

Dissecting material is abundant, so that no shortage need be apprehended, arrangements being already in practice for storage of material during the summer months. Drs. Shane and P. J. Wiley, Demonstrators, will be on duty daily (except Saturday) as per schedule of lectures, and special attention will be given to this branch during first and second years.

MATERIA MEDICA AND THERAPEUTICS.

Prof. Jas. C. Zan will direct attention during first and second years to remedial agents and to the actions of medicines proper, with particular reference to their practical application. Specimens of the various medicines will be exhibited to the class and attention given to Electro-therapeutics, upon which a special course will be given both didactically and clinically by Drs. Taylor and Hamilton. Laboratory work in Materia Medica and Therapeutics will be given by the assistant, Dr. W. A. Shea. Dietetics will be treated by Dr. Taylor.

Dr. Ralph C. Matson will deliver practical lectures with laboratory work on Bacteriology to third year students.

The Bacteriological Laboratory is newly supplied with all the necessary apparatus and material for a very full course.

Each student will receive instruction in Bacteriological technique including best methods of examining sputum, staining, etc., culture media and their preparation, and different bacteria will be cultivated and studied, such as those of Typhoid, Diphtheria, Cholera, Tubercle, etc. Dr. Ralph Matson will also give demonstrations in Clinical Microscopy. (N. B.—This subject having been placed in curriculum of third instead of fourth year as heretofore, students of both years will attend during this session.)

MICROSCOPY, HISTOLOGY AND PATHOLOGY.

Prof. Yenney will be in charge of this department and will give a thorough course, both didactic and by laboratory methods in pathology. This will include the study of microscopical examinations of pus, blood, urine, tumors and other tissue structures, etc., and post mortem work and medical zoology. Drs. Ostrander and Marcellus will demonstrate technique in the laboratory.

In histology Dr. Ray W. Matson will deliver a practical course on the use of the microscope and histology and will demonstrate the technique of this work.

Histology will be considered during the first year, Pathology by second and third year students. The new laboratories have been fully equipped and afford excellent opportunities for thorough laboratory work by the students. Students will make their own mountings, under proper supervision, for permanent preservation.

OBSTETRICS.

This subject, including some consideration of Embryology, will be taught during second, third and fourth years. Prof. Josephi will illustrate the lectures upon this branch by manikins, charts, diagrams, specimens, clinical work, in the hospital maternity wards, etc. All the principal obstetric operations will be demonstrated and members of the class will be required to perform operations and instrumental applications on the manikin before the class. Fourth year students will receive instruction by clinical methods and labor cases will be entrusted to individual members of the senior class under proper direction, thus insuring an eminently practical knowledge of this important branch.

GYNECOLOGY.

This branch will be taught during third and fourth years by Prof. Tucker, by lectures and case-taking experiences. Prof. A. J. Giesy will give clinics in Gynecology at Good Samaritan hospital. Prof. Tucker will give clinics at the out-patient department. Practical instruction will be given in manual and instrumental examinations and operations for the diagnosis and treatment of diseases peculiar to women.

PHYSIOLOGY.

Lectures upon this subject will be delivered during first and second years by Prof. Geo. B. Story and will be illustrated by demonstrations and laboratory methods which will occupy a prominent place. Laboratory work will be in charge of the assistant, Dr. McCusker. Embryology will be treated in this course.

DISEASES OF THE NERVOUS SYSTEM.

Lectures on Nervous Diseases including Insanity will be delivered by Prof. Josephi during third and fourth years. In this course,

which has been extended in the new curriculum, special Nervous Diseases not included in the lectures of others will be dwelt upon. Clinics at hospitals and out-patient department. A special clinical course on Insanity will be given by Dr. Gillespie.

OPHTHALMOLOGY, OTOLOGY, RHINOLOGY AND LARYNGOLOGY.

Prof. Nunn will deliver lectures upon these subjects to third and fourth year students and will give special attention to methods of diagnosis and treatment of diseases of the parts involved. Practical clinical training in these branches and in the use of the ophthalmoscope, specula, laryngoscope and instruments for local applications, will be given. Clinics in Good Samaritan hospital and out-patient department.

GENITO-URINARY DISEASES.

Prof. Mackay will, in addition to clinics on Genito-Urinary Surgery at the Good Samaritan hospital, give instruction in Genito-Urinary Diseases and Syphilis, illustrated by preparations, models, drawings and lantern. The different types of urethroscopes and cystoscopes will be shown and the Cathelin vesical devisor, the Harris segregator, etc., will be explained and all the different instruments will be used in the clinics as opportunities are presented. Clinics in out-patient department by Dr. Whiteside.

PEDIATRICS.

Prof. G. M. Wells will bring before the students during fourth year a full consideration of the disorders incident to infancy and childhood. This important branch of medicine claims earnest study of the child from the first hour of life. The subject of prophylaxis is now to the fore, and a few years may see a great revolution in the treatment and control of contagious diseases. The subject of infant feeding continues to interest all pediatrists. All subjects pertaining to this chair will receive attention.

DERMATOLOGY AND SYPHILIS.

Dr. J. C. E. King will deliver lectures on Dermatology and Syphilis during the third year. The exhibition of illustrative cases will form a prominent feature. Dr. Whiteside will conduct a clinic in the out-patient department and cases will also be shown at county hospital.

MEDICAL JURISPRUDENCE.

Dr. Wm. House will deliver lectures embracing the more essential points of this interesting branch of medicine during the third and fourth years.

PHYSICAL DIAGNOSIS.

Dr. J. O. C. Wiley will give special instruction on this important subject, giving prominence to topographical examinations, exemplary sounds, etc., using clinical material for demonstrations. Clinics at hospital.

HYGIENE.

Dr. Wheeler will deliver a course on Hygiene during the year. The subject will be treated from a practical standpoint. Preventive medicine and sanitary science will receive the attention they so well deserve.

EMBRYOLOGY.

Embryology will be treated in the lectures of Profs. Josephi, Tucker, Labbe and Story; the first two delivering didactics and the last two giving laboratory demonstrations.

LIBRARY.

A medical library, known as "The R. B. Wilson Library," has been established at the college building. The nucleus for this is a gift of the medical libraries of the late Dr. R. B. Wilson and Dr. Rodney Glisan. This has been added to by gift from the Federal Government and will be further enlarged from time to time. Students will be allowed the use of books (not to be removed from the building) under such rules as the college may prescribe.

NOTE: All students are *privileged* to attend all *didactic* lectures, but only such as are laid down in the schedule are compulsory.

COURSE OF STUDY.

The following is an outline of the work:

FRESHMAN YEAR.

Anatomy, with dissections,
General Chemistry, with laboratory work,
Materia Medica and Pharmacy, with laboratory work,

Physiology, with laboratory work,
Microscopy and Histology, with laboratory work,
Hygiene and Public Health,
Embryology,
Dietetics,

Examinations at the end of the year in Osteology and Syndesmology, Histology, Principles of Chemistry, Elementary Materia Medica, Physiology (Prox. Principles, the Blood and Digestion).

SOPHOMORE YEAR.

Anatomy, with dissections: finished,
General Pathology, with laboratory work,
Physiology, with laboratory work, finished,
Embryology, with laboratory work,
Chemistry, with laboratory work; finished,
Materia Medica, Pharmacology and Therapeutics; finished,
Hygiene and Public Health; finished,
Obstetrics (Pelvic Anatomy, Embryology and Normal Labor),
Dietetics,

Examinations at the end of the year: Anatomy (final); General Pathology; Physiology (final); Chemistry (final); Materia Medica and Therapeutics (final); Hygiene; Dietetics; Obstetrics (Pelvic Anatomy, Embryology and Normal Labor).

JUNIOR YEAR.

Theory and Practice of Medicine, General Therapeutics,
Principles and Practice of Surgery and Bandaging,
Pathology with Laboratory Work,
Bacteriology, with Laboratory Work,

Pediatrics,	Ophthalmology and Otology,
Dermatology,	Obstetrics,
Gynecology,	Medical Jurisprudence,
Genito-Urinary Diseases,	Nervous Diseases,
Physical Diagnosis,	Clinics.

Examinations in Principles of Medicine; Principles of Surgery; Pathology (final); Gynecology; Physical Diagnosis; Obstetrics; Dermatology; Diseases of Genito-Urinary Organs; Ophthalmology and Otology; Bacteriology (final).

SENIOR YEAR.

Medical Jurisprudence,
Theory and Practice of Medicine,
Principles and Practice of Surgery,
Military and Operative Surgery,
Clinics all,
Gynecology,
Genito-Urinary Diseases,
Ophthalmology and Otology,
Obstetrics, Clinics,
Rhinology and Laryngology,
Pediatrics,
Insanity and Diseases of Nervous System,
Examinations: Final in above.

TEXT BOOKS.

The following list of books is given as a guide to the student (latest editions preferred):

FOR STUDY		FOR REFERENCE
Anatomy	Gray.	Morris, Cunningham.
Physiology	Howell.	Hall, Kirke.
Chemistry	Withaus. Hill. Purdy Pract. Urinalysis, etc.	Bartley, Sadtler and Trimble.
Materia Medica	White & Wilcox.	Butler, Shoemaker, Sollman.
Surgery	Wharton & Curtis.	International Text Book. Senn's Principles of Surgery, Da Costa.
Theory and Practice	Anders, Tyson.	Osler's System.
Diagnosis	Cabot.	Da Costa.
Obstetrics	Hirst.	Williams.
Diseases of Children	Fischer Ruhräh.	Holt, Koplik, Cotton.
Gynæcology	Dudley.	Montgomery, Hirst, Ashton, Penrose.
Ophthalmology	Swanzy.	Noyes, Buck, Fuchs.
Otology Laryngology	Bishop's Dis. of Ear, Nose, and Throat.	
Histology	Piersol.	Stohr, Ferguson.
Pathology	Stengel.	Mallory & Wright.
Dermatology	Stelwagon.	Kaposi, Crocker, Hyde & Montgomery.
Toxicology	Taylor.	
Orthopædic Surgery	Sayre.	
Nervous diseases and Insanity	Church & Peterson.	Gowers, Gordinier's Anatomy of Nervous System, Krafft-Ebing.
Genito-Urinary Diseases	Keyes, Lydston.	White & Martin, Taylor.

Medical Jurisprudence	F. W. Draper.	A. N. Taylor, Wharton and Stille.
Hygiene	Bergy.	
Bacteriology	Muir & Ritchie.	Abbott, Levy & Klemperer, McFarland,
Electro-Therapeutics	A. D. Rockwell.	Medical and Surgical Electricity.
Dietetics	Food & Diet, Williams.	Friedenwald, Thompson.

HOSPITAL APPOINTMENTS.

The college has in its gift eight appointments each year of house surgeons, five to the Good Samaritan hospital, three to St. Vincent's hospital, both in Portland. Information regarding these appointments will be furnished by the Dean on application. Each appointment is for one year, during which time board and lodging will be furnished free at the hospital. An excellent opportunity is thus afforded to the graduate to acquire in the wards of a well equipped hospital, without any expense, a practical knowledge by clinical experience and actual practice.

PRIZES.

SAYLOR MEDAL.

The Saylor Gold Medal founded by the late Prof. Saylor and now maintained by the Faculty, will be awarded to the graduate who shall have obtained the highest total of credits for the four year's work (whether taken in regular sequence or not). Provided: Credits in medical subjects shall have been obtained in some department or departments of the University of Oregon, and the student's mark in his first examination in any subject or part of a subject (whether or not he passes the subject at that examination) shall be the mark considered in making up his total in competition for the medal.

THE ANATOMY MEDAL.

The Anatomy Gold Medal will be awarded to the undergraduate who obtains the highest total mark in Anatomy in final examination in that branch. This mark is the total of Osteology, Histology and Anatomy, including dissections. Provided such mark is obtained in the University of Oregon under conditions similar to those governing the Saylor Medal. The medal will be presented to the winner only at the time of graduation from this college.

MEDALISTS 1907-1908.

Saylor Medal—Eldred Byron Waffle, M. D.

Anatomy Medal—Samuel Edward Rosenthal.

SPECIAL NOTICE.

Beginning with the session of 1910-11 the minimum requirements for admission will be increased by the addition to the present requirements of a four years' high school education, of one year of nine months to be devoted to physics, chemistry, biology and one modern language (preferably German).

REQUIREMENTS FOR ADMISSION.

1. (a) A bachelor's degree from an approved college or university.

(b) A diploma from an accredited high school, normal school or academy requiring for admission evidence of the completion of an 8-year course in primary and intermediate grades, and for graduation not less than four years of study embracing not less than two years (4 points) of foreign language, of which one must be Latin, two years (4 points) of mathematics, two years (4 points) of English, one year (2 points) of history, two years (4 points) of laboratory science, and six years (12 points) of further credit in language, literature, history or science.

(c) An examination in the following branches:

A. 30 points, of which 20 points must be as follows: Mathematics (4 points); English (4 points); History (4 points); Language (2 must be Latin), 4 points; Science (taken from physics, chemistry, botany, zoology), 4 points.

B. The other 10 points may be elected from following (additional to requirements under subdivision A): English, 2 points; History, 4 points; Language, 6 points; Manual Training, 2 points; Mechanical Drawing, 1 point; Natural Science (botany, biology, zoology), 2 points; Physical Science (chemistry, physics), 2 points; Trigonometry, 1 point; Astronomy (1), Civics (1), Geology (1), Physical Geography (1), Physiology and Hygiene (1), Political Economy (1).

(One point in any subject in a high school or academic course demands not less than five periods per week of forty-five minutes each for eighteen weeks.)

Certificates from reputable instructors recognized by the Oregon Superintendent of Public Instruction or the Portland City

Superintendent of Public Instruction or by any state board of medical examiners duly authorized by law, may be accepted in lieu of any part of this examination.

2. This examination must be conducted or recognized by or be under the authority of the superintendent of public instruction of the city or State in which the college is located. In no case shall it be conducted by any person connected with the faculty of the institution to which the student is seeking admission.

3. A student may be allowed to enter on his medical work conditioned in not more than six points, and these conditions must be removed by satisfactory examination before he is allowed to enter on the second year of his medical course.

4. The official credentials presented by students from other colleges having at least the standard requirements of this college, may be honored, excepting for the fourth year of their course, but no student will be admitted to advanced standing without a direct communication from the college from which such student desires to withdraw, certifying to the applicant's professional and moral qualifications, and to the exact work he has done in said college.

5. Candidates for the degree of Doctor of Medicine shall have attended four courses of study in four calendar years, each annual course to have been of not less than thirty teaching weeks' duration, and at least ten months shall intervene between the beginning of any course and the beginning of the preceding course.

6. Credit may be given to the holder of a Bachelor's Degree from an approved college or university for any work in the medical branches which he has successfully completed in his college course, only so far as it is the full equivalent of corresponding work in the medical curriculum. The holder of such Bachelor's Degree may also be given time credits of not exceeding one year, provided that such student has had at least 40 hours in physics, 144 hours in chemistry, 24 hours in osteology, 292 hours in human or comparative anatomy, 124 hours in histology, 85 hours in embryology, 145 hours in physiology, and 46 hours in materia medica; provided, that the applicant for such time credits satisfies the professors of the chairs mentioned in the medical school as to his proficiency in these first-year medical studies, and satisfies the examiner, as provided for in 2 (supra), that his studies for which the degree was conferred include the above requirements. Such student may be allowed to complete a course for the medical degree in not less

than 31 months, provided he completes the remainder of the medical curriculum in that time.

Before admission, every student is required to furnish a satisfactory certificate of good moral character, signed by two reputable physicians of his locality, and to obtain the Dean's receipt for the payment of the matriculation fee. It will therefore be necessary for the applicant to present himself at the office of the Dean, register his name as a student in the Medical Department, pay his matriculation fee, and arrange for payment of his regular fees. New students will be assigned seats in the order of date of matriculation. Certificates for entrance may be submitted to the Dean for approval at any time and the student's name listed; but matriculation will not take place until the date of the opening of the matriculation book, September 1st.

REGULATIONS REGARDING EXAMINATIONS.

A percentage of 75 is required for passing from grade to grade in all subjects.

The estimate of the standing of each student is based both upon the general character of his work and upon the results of his examination. Students failing to attend 80 per cent of all prescribed exercises in any subject are considered to have failed in that subject, and will not be credited for examination therein.

Students who have failed in not to exceed two subjects are permitted to continue the work of their class when they shall have passed re-examination in those subjects at the beginning of the next college year. Failing to pass this re-examination in more than one subject will necessitate repetition of the whole year's work.

Conditions will be permitted only from preceding year in regular sequence.

No student shall be admitted to the senior year with a full major or more than one minor condition. Students who have failed in three subjects are not admitted to re-examination, but are required to take the whole year's work over again, including those subjects in which they may have passed. In all re-examinations no percentage grades over 75 are given; the student either passes or fails.

Students who for three successive years have failed to secure advanced standing will not be permitted to continue their studies in the college.

Fourth year students are required to pass in all subjects before receiving the degree of Doctor of Medicine.

For a final passing mark students must attain an average of 75 per cent, and not fall below 70 per cent in any one chair in the work of the entire course.

Those who fail in one or two subjects will be admitted to re-examination in those subjects at the beginning of the following regular term. If they pass, they will receive the degree at the next succeeding commencement.

Examinations will be conducted by numbers and not by names of students, so that the identity of the student shall not be known to the examiner.

REQUIREMENTS FOR GRADUATION.

The candidate for the degree of Doctor of Medicine must be of good moral character and twenty-one years of age. He must have studied medicine under a regular practitioner four years, including attendance upon lectures, and attended in a regular medical college authorized to confer the degree of M. D., four full courses of lectures, of at least seven and one-half months each, no two of which shall have been delivered within twelve months (unless admitted to advanced standing as above), the last of which must have been in this college; and must exhibit his tickets or other adequate evidence of attendance to the Dean of the Faculty. He must present to the Dean satisfactory evidence of having dissected the entire cadaver. He must have attended at least two courses of Dissections and Clinical Instruction. He must present to the Dean satisfactory evidence of time of study, laboratory work and moral character. He must have passed successfully the examinations, prescribed by the Faculty, and have paid all fees due the College.

The degree will not be conferred upon any candidate who absents himself from the public commencement exercises without special permission of the Faculty.

The diploma given to graduates is that of the University of the State of Oregon, duly signed by the President and Secretary of the Board of Regents, as well as by the Medical Faculty.

Women will be admitted to matriculation, instruction and graduation on the same terms as men.

COLLEGE EXPENSES.

ALL FEES ARE PAYABLE IN ADVANCE. In a *limited* number of cases some accommodation may be given, but such will be granted in order of application and *must be arranged for at time of matriculation.* Otherwise all fees, except examination fees, must be paid in advance. Fees are not returnable unless, in the judgment of the Faculty, circumstances justify.

All students whose work is in the *chemical* laboratory will be required to deposit $3 and those in the *histological, pathological* or *bacteriological* laboratory $5 for breakage. *These fees must be paid before the student will be permitted to do any laboratory work.* With the exception of $2 for each laboratory course, these fees are returnable if no breakage is charged. Dissecting material $3 per part.

To those who enter at beginning of first year:

First year: Matriculation	$ 5.00
Fee for course	130.00
One-quarter examination fee	7.50
Second year: Fee for course	130.00
One-quarter examination fee	7.50
Third year: Fee for course	100.00
One-quarter examination fee	7.50
Fourth year: Fee for course	50.00
One-quarter examination fee	7.50

To those who enter beginning of second year (not having taken a course in this college):

Second year: Matriculation	5.00
Fee for course	130.00
One-third examination fee	10.00
Third year: Fee for course	130.00
One-third examination fee	10.00
Fourth year. Fee for course	75.00
One-third examination fee	10.00

To those who enter beginning of third year (not having taken a course in this college):

Third year: Matriculation	5.00
Fee for course	130.00
One-half examination fee	15.00

Fourth year: Fee for course	100.00
One-half examination fee	15.00
To those who enter beginning of fourth year (not having taken a course in this college):	
Fourth year: Matriculation	5.00
Fee for course	120.00
Examination fee	30.00

Fifty dollars per session will be charged students who continue in attendance after having failed to obtain the degree at the end of their normal final year.

One full scholarship and two half-scholarships are open to graduates of the University of Oregon with the degree of A. B. or B. S., of not more than two years' standing. Particulars will be furnished upon application to Professor Josephi, Portland.

BOARDING.

Good board with rooms and all the usual accommodations can be obtained in the vicinity of the college at reasonable rates.

DIRECTIONS TO THE STUDENT.

Students will matriculate at the office of the Dean, Professor S. E. Josephi, Dekum building, Third and Washington streets, Portland, Oregon.

For further particulars address

S. E. JOSEPHI, M. D., Room 610 Dekum Bldg.,
Third and Washington Sts., PORTLAND, OREGON.

DEGREES CONFERRED

On Commencement Day, June 24, 1908, degrees were conferred as follows:

THE DEGREE OF MASTER OF ARTS UPON

Kirkman Kenson Robinson
Lon Leo Swift

THE DEGREE OF MINING ENGINEER UPON

Theodore Pickel Holt

THE DEGREE OF BACHELOR OF ARTS UPON

Allie Beatrice Beebe
Jessie Murray Bell
Walter Matho Berry
Ernest Joshua Bertsch
Paul Gartner Bond
Cora Columbia Cameron
Edna Jane Caufield
Clara Madeline Caufield
Jessie Emily Chase
James Cunning
Elsie Davis
William A. Dill
Mary Foshay
Oscar Furuset
Winifred Hadley
Zena Mozelle Hair
Charles Bolton Hamble
Richard Alden Hathaway
Benjamin Huntington, Jr.
Lilla Lydia Irvin
Frederick C. Jackson
Grover John Kestly
Bessie May Kidder
Webster Lockwood Kincaid
John Eberle Kuykendall
Irene Lincoln
Roy Dell McCarty
Lena Inez Miller
Leslie Phelps Miller
Gordon Chamberlain Moores
Frank Reid Mount
Emily Muhr
William Bartle Neal
Elmer DeWitt Paine
Bert William Prescott
William Oscar Hampton Prosser
Floyd Cleveland Ramp
Ward L. Ray
Evelyn Helene Robinson
Claudius Carrol Robinson
Mary Ellen Scott
Harrison Kuhn Shirk
Agnes Stevenson
William Ray Taylor
Claire Edmund Travillion
Agnes Belle VanDuyn
Mabel A. Tiffany
Miriam Van Waters
Wesley Matthew Wire

THE DEGREE OF BACHELOR OF SCIENCE UPON

Albert Jackson Elton
Curtis Allen Gardner
Harvey Allen Houston
Joseph Wilbur McArthur
Walter Jacob Moore
George Eugene Sullivan
Don Stevenson
Charles Roy Zacharias

THE DEGREE OF DOCTOR OF MEDICINE UPON

Helen Book-Babcock
Minnie Bell Burdon
Arvid Bursell
Harry Mon Hendershott
Robert E. L. Holt
Louie Hugh
William Frederick Kaiser
Soren Mathiesen Kyde
Herbert Clay Lieser
Miles Underwood Lieser
John Wallace McCollom
Edna Bishop Northey
Frank Shumway Pratt
Carl George Rahal
Albert Roy Sargeant
Burlington Earl Smith
Lloyd Fisher Smith
Leatha Ruth Tyler
Eldred Byron Waffle
Charles Benjamin Zeebuyth

Owing to the lengthening of the Law Course, there are no graduates from the Department of Law for 1908.

SPECIAL HONORS FOR EXCELLENCE OF THESES

Were granted as follows:

ALLIE BEEBE, "Socrates the Moralist."

CORA CAMERON, "The West in American Poetry."

JESSIE CHASE, "Death in the Works of the Women Novelists."

WILLIAM DILL, "Treasury Balances and the Debt and Interest Funds."

OSCAR FURUSET, "The History of Railroad Building in Oregon."

MARY FOSHAY, "The Social Interest in the English Poets: Goldsmith to Wordsworth."

GROVER KESTLY, "Evolution of the Oregon Tax Code."

BESSIE KIDDER, "The Hostile Criticisms of Shakespeare."

WEBSTER KINCAID, "The Emoluments and Fee System of the State Officials of Oregon."

IRENE LINCOLN, "Oregon's First Monopoly: The Oregon Steam Navigation Company."

DELL MCCARTY, "The Development of County Organizations in Oregon."

LESLIE MILLER, "Training Institutions for Rural Teachers."

WALTER MOORE, "Tests on Concrete Containing Clay."

H. K. SHIRK, "The Problems of the Country School."

WESLEY WIRE, "The Religious Element in American Poetry."

C. R. ZACHARIAS, "Tests on Concrete Containing Clay."

STUDENTS ENROLLED

GRADUATE SCHOOL

Beebe, Allie Beatrice	Eugene
DeBar, Florence	Eugene
Fisher, Ray D.	Portland
Hair, Mozelle	Grants Pass
Hug, George Willard	Eugene
Jackson, Andrew W.	Bandon
Jenkins, Frank	Eugene
Sullivan, George Eugene	Oregon City
VanWaters, Miriam	Portland
Williams, Angeline	Oregon City
Wester, Charles William	Eugene
Wheeler, Harvey Arnold	Point Terrace

COLLEGE OF LITERATURE, SCIENCE AND THE ARTS, AND COLLEGE OF ENGINEERING

Adams, Grace Marie	B. A.	Corona, Cal.
Allen, Adah Ardys	B. A.	Eugene
Allen, Eva Vivian	B. A.	Eugene
Allison, Jean	B. A.	Portland
Alton, Robert Mintie	C. E.	Oswego
Arnspinger, Olen	C. E.	Pendleton
Ayers, Jesse C.	C. E.	Eugene
Baer, C. Bernie	B. A.	Baker City
Baer, Elizabeth	B. A.	Baker City
Bagley, Mildred E.	B. A.	Salem
Bailey, Walter R.	B. A.	Gladstone
Baker, Edith A.	B. A.	Eugene
Balderree, Ruth Edna	B. A.	Eugene
Banfield, Rita Ellen	B. A.	Portland
Barbour, Wendell C.	B. A.	Eugene
Barker, William	Min. E.	Vancouver, B. C.
Barnard, Ethel Frances	B. A.	Eugene
Bartrum, Claude DeForest	C. E.	Roseburg
Barzee, Mae	B. A.	Portland
Bates, Harold Edwards	B. A.	Portland

Beach, Agnes	B. A.	Portland
Beach, Helen	B. A.	Portland
Beach, Varnel Douglas	B. A.	Portland
Beals, Maude Joy	B. A.	Eugene
Bean, Harold C.	B. A.	Salem
Bean, Ormond	C. E.	Salem
Beebe, Cornelius	B. A.	Eugene
Beebe, Edith Lillian	B. A.	Eugene
Beebe, Ethel Grace	B. A.	Eugene
Beebe, Pansy	B. A.	Eugene
Belat, Emma Lenore	B. A.	The Dalles
Bell, Cecilia Smith	B. A.	Portland
Belshaw, Mary	B. A.	Eugene
Benson, D. Elbert C.	C. E.	Denver, Col.
Bergman, Annie	B. A.	Astoria
Bibee, Jessie Merle	B. A.	Portland
Bittner, Linus H.	B. A.	Portland
Blackman, Abe B.	C. E.	Portland
Blagen, Henry Waldemar	E. E.	Hoquiam, Wash.
Bond, Aubrey H.	B. A.	Florence
Bond, Jesse Hickman	B. S.	Florence
Bond, Livia Z.	B. A.	Irving
Booth, Floyd W.	B. A.	Eugene
Bradley, Hazel Harriet	B. A.	Portland
Breeding, Frank Owen	Min. E.	Portland
Briedwell, Glen LeSueur	B. A.	Amity
Bristol, Ralph Roy	B. A.	Portland
Bristow, Greta Elizabeth	B. A.	Eugene
Bristow, W. Wilshire	B. A.	Eugene
Brooke, Frederic M.	B. A.	Eugene
Brown, Hazel	B. A.	Portland
Brown, Lyle F.	Min. E.	Portland
Brownell, Philander	E. E.	Gardiner
Burke, Thomas Anthony	B. A.	Baker City
Cake, William M.	B. A.	Portland
Calkins, Jessie Marguerite	B. A.	Eugene
Campbell, Alberta Winnifred	B. A.	Eugene
Campbell, Lucia Eugenia	B. A.	Eugene
Campbell, William Chester	B. A.	McMinnville
Carmichael, Eugene Fowler	E. E.	Ashland

Carmichael, Howard Ellsworth	E. E.	Ashland
Carrick, Richard Scott	C. E.	Portland
Carter, George Fitzhugh	E. E.	Leesburgh, Va.
Cash, Alvin Burleigh	B. A.	Hood River
Caufield, Lee James	Min. E.	Oregon City
Caufield, Raymond Phillips	C. E.	Oregon City
Chace, Cora	B. A.	Ft. Morgan, Neb.
Champie, Henry S.	B. A.	Eugene
Chandler, Benjamin Robert	B. A.	Marshfield
Charman, Norwood Richard	C. E.	Oregon City
Chessman, Merle Rowland	B. A.	Eugene
Childers, Earl	B. A.	Eugene
Clarke, Dudley R.	B. A.	Portland
Clark, Fay	B. A.	Kelso, Wash.
Clarke, Herbert Fanning	B. A.	Portland
Clarke, Herbert Houghton	B. A.	Portland
Clark, Lilah Platt	B. A.	Lents
Clem, Noah R.	B. A.	Emida, Idaho
Clifford, Erma	B. A.	Baker City
Cockerline, Harold B.	E. E.	Eugene
Cockerline, Winifred M.	B. A.	Eugene
Coffey, Ada Boone	B. A.	Drain
Cole, J. Alpheus	C. E.	Ashland
Coleman, Curtis H.	B. A.	Salem
Collier, Ethan Alexis	C. E.	Eugene
Collier, Percy M.	B. A.	Eugene
Comings, Bertha Frances	B. A.	E. Berkshire, Vt.
Conger, Ben	Min. E.	Eugene
Cooper, Frances	B. A.	Independence
Cooper, J. Shelby, Jr.	B. A.	Independence
Cooper, Virgil	E. E.	Baker City
Coovert, Lynn Baker	B. A.	Portland
Correll, Paul P.	B. A.	Baker City
Criteser, Fred F.	E. E.	Roseburg
Criteser, Mary S.	B. A.	Eugene
Cronise, Ralph R.	B. A.	Salem
Cross, Juliet	B. A.	Oregon City
Cunning, Chauncey	B. A.	Baker City
Curtis, Chas C.	B. A.	Eugene
Curtis, Francis Day	B. S.	Portland

Cutler, Clementene Mabel	B. A.	Portland
Dalzell, Harold	B. A.	Eugene
Davidson, Samuel R.	B. A.	Portland
Davies, Clara Marie	B. A.	Ashland
Davies, Henry R.	B. A.	Ashland
Davis, Edwin Clark	C. E.	Portland
Davis, Pauline	B. A.	Eugene
Dean, Fritz	B. A.	Grants Pass
DeBar, Mary Eleanor	B. A.	Eugene
Devereaux, Harry E.	C. E.	Eugene
Deyoe, Cora Adelle	B. A.	Eugene
Deyoe, Ella M.	B. A.	Eugene
Dickson, John Ross	B. A.	Pendleton
Dobie, David Leslie	B. A.	Portland
Dodson, Ralph M.	B. A.	Baker City
Donnell, Olive	B. A.	Portland
Dorris, Bertha	B. A.	Lewiston, Idaho
Dow, Elsie Marion	B. A.	Washburn, Wis.
Down, Richard	Min. E.	Silverton
Downing, Claude Clarence	B. A.	Ashland
Downs, Chester A.	B. A.	Portland
Drew, Howard W.	B. A.	Tillamook
Duniway, Ruth	B. A.	Portland
Dunlap, William Gates	C. E.	Portland
Dunn, Claire	B. A.	Eugene
Dunston, Carolyn	B. A.	Portland
Dunton, Forrest E.	B. A.	Molalla
Dunton, Willis Lewis	B. A.	Molalla
Earhart, Samuel Darragh	B. A.	Medford
Eastham, Alta	B. A.	Eugene
Eastham, Gerald	B. A.	Oswego
Eaton, Walter M.	Min. E.	Eugene
Eliot, Elsa	B. A.	Eugene
Elliott, Elizabeth	B. A.	Portland
Elliott, Wayne E.	B. A.	Harrisburg
Emmons, Margaret Leslie	B. A.	Eugene
Erskine, Charles Wesley	B. A.	Coburg
Espy, Cecil Jefferson	B. A.	Oysterville, Wash.
Eubanks, Clarence M.	B. A.	Portland

Evans, Ethel Lena	B. A.	Eugene
Fariss, James R.	B. A.	Eugene
Fariss, Jessie	B. A.	Eugene
Farrar, Gladys	B. A.	Salem
Farrell, George	C. E.	Berlin, Mich.
Farrington, Austin C.	B. A.	Eugene
Ferdine, Blanche Ellaine	B. A.	Grants Pass
Ferguson, Elizabeth	B. A.	Medford
Fisher, Walter S.	B. A.	Roseburg
Flegel, Austin Finck, Jr.	B. A.	Portland
Flynn, Edward David	E. E.	Baker City
Folmsbee, Viola	B. A.	Elk City
Fortmiller, Edwin	B. A.	Albany
Fowler, Fred T.	C. E.	Rose Lodge
Frederickson, Harry William	B. A.	Sleepy Eye, Minn.
Frink, Ellen Beadle	B. A.	Eugene
Fry, Jennie Harbord	B. A.	Salem
Fullerton, Kate	B. A.	Roseburg
Furuset, Elmer Morris	B. A.	Eugene
Gabriel, George Alpha	B. A.	Dayton
Gabrielson, Carl D.	B. A.	Salem
Gallogly, Elizabeth	B. A.	Oregon City
Gammans, Nelson	B. A.	Portland
Garrabrant, Albert Donally	C. E.	Hood River
Garret, Lida Oakes	B. A.	Eugene
Geary, Arthur McCornack	B. A.	Portland
Geisler, Louis Raphael	B. A.	Portland
George, Frank K.	Min. E.	Eileen, Cal.
Getz, Eugene LeRoy	C. E.	Portland
Gibson, Ruth	B. A.	Roseburg
Gilkey, Dean	B. A.	Eugene
Gilles, Verner A.	Min. E.	Baker City
Goff, Laura Adele	B. A.	Hood River
Goldsmith, Frieda	B. A.	Eugene
Goodall, Byron	C. E.	La Grande
Goodman, Dean Trueman	B. A.	Pendleton
Gray, Carolyn Louise	B. A.	Pendleton
Gray, Howard	Min. E.	Milwaukee
Gray, Rebecca June	B. A.	Eugene
Gregory, Lair H.	B. A.	Portland

Green, Ethel G.	B. A.	Eugene
Gressman, William Albert	B. A.	Summerville
Grodin, Irvin M.	B. A.	Russia
Hager, Celia Victoria	B. A.	Eugene
Haley, Essie Mae	B. A.	Stevensville, Mont.
Halley, Earl G.	E. E.	Baker City
Hamble, Madge Norwood	B. A.	Eugene
Hammarstrom, Rubie	B. A.	Astoria
Hansen, Ruth	B. A.	Portland
Hardie, Ruth Claire	B. A.	Portland
Hardin, Chas. Elmer	Min. E.	Vancouver, Wash.
Harding, Nieta Natalie	B. A.	Oregon City
Harding, Lloyd Ordway	B. A.	Oregon City
Harpham, Edward Everett	C. E.	Roseburg
Harris, Ernest R.	C. E.	Oak Grove
Harrold, Howard	C. E.	Newberg
Hawkins, Martin W.	B. A.	Portland
Hawthorne, Pearl Virginia	B. A.	Eugene
Hayes, Dean Harold	B. A.	Portland
Hayes, Susan Elizabeth	B. A.	Baker City
Heider, Raymond	C. E.	Sheridan
Henderson, Kathleen Ermine	B. A.	Eugene
Henderson, Sidney Elliot	C. E.	Hood River
Hendricks, Robert Hamilton	E. E.	Fossil
Henkel, Ferdinand	E. E.	Portland
Herrick, Clara S.	B. A.	Ridgewood, N. J.
Herrick, Florence South	B. A.	Ridgewood, N. J.
Hickethier, Mamie L.	B. A.	Drain
Hickson, John	B. A.	Portland
Hickson, Robert E.	C. E.	Portland
Hill, Mabel	B. A.	Junction City
Himes, Edward J.	C. E.	Portland
Hobbs, Grace E.	B. A.	Eugene
Hoisington, Louis Benjamin	B. A.	Eugene
Holmes, Gertrude	B. A.	Portland
Holmes, Vivian Anita	B. A.	Portland
Holst, Mary M.	B. A.	Salem
Hood, Randall John	B. A.	Grants Pass
Hoover, Thomas Benton	B. A.	Fossil
Horner, Vera Delle	B. A.	Corvallis

Hovis, Victor Moody	B. A.	Alfalfa, Wash.
Howe, Elizabeth	B. A.	Eugene
Huff, Hazel M.	B. A.	Eugene
Huff, Pearl	B. A.	La Grande
Huggins, Leigh M.	C. E.	Portland
Huggins, William B.	B. A.	Portland
Hughes, Helena S.	B. A.	Portland
Humphrey, Eda Claire	B. A.	Eugene
Humphrey, Hazel Beatrice	B. A.	Eugene
Hunt, Harold Everett	B. A.	Condon
Hunter, Glen W.	E. E.	Eugene
Huntington, Walter M.	B. A.	The Dalles
Hurd, Conifred F.	B. A.	Eugene
Hurd, Leland C.	Min. E.	Eugene
Hurd, Marean G.	C. E.	Eugene
Hurd, Virginia	B. A.	Eugene
Hurlburt, Eugene F.	E. E.	Eugene
Hurley, Jessie Lorena	B. A.	Portland
Huston, Ella Blanche	B. A.	Portland
Huston, Oliver B.	B. A.	Portland
Huston, Samuel Carl	B. A.	Portland
Hutton, William Leithoff	M. E.	Portland
Hyde, Hattie E.	B. A.	Portland
Inman, Hollis C.	E. E.	Portland
Irvin, Will	C. E.	Walterville
Jagger, Cora	B. A.	Oregon City
Jamison, Harper N.	B. A.	Portland
Jamison, Homer B.	B. S.	Portland
Johns, James Shanard	B. A.	Pendleton
Johnson, Ethel May	B. A.	Eugene
Johnson, Jonathan Lewis	C. E.	Eugene
Johnson, Pearl	B. A.	Eugene
Jones, J. Earl	C. E.	Newberg
Keenan, Arthur Bayard	E. E.	Biggs
Kellogg, Robert Noel	C. E.	Baker City
Kelly, France Elizabeth	B. A.	Eugene
Kelly, John George, Jr.	M. E.	Eugene
Kelly, Kate O'Connor	B. A.	Eugene
Kelly, Winifred	B. A.	Eugene
Kennedy, Rolland C.	E. E.	Portland

Kennon, Laura Hall	B. A.	Baker City
Kenny, Helen Genevieve	B. A.	Leona
Kentner, Herbert Curtis	E. E.	Medford
Kerr, Arthur Frederic	B. A.	Eugene
Kestly, John J., Jr.	E. E.	Springfield
Kidder, Earle Field	E. E.	Baker City
Kilpatrick, Earl	B. A.	La Grande
Kiltz, William Charles	B. A.	Vancouver, B. C.
King, Karl	B. A.	Eugene
Knox, Jane Webb	B. A.	Portland
Koyl, Charles Wesley	B. A.	Eugene
Kuykendall, Mabel	B. A.	Eugene
LaBrie, Grace	B. A.	Roseburg
Lackey, Homer M.	B. A.	Eugene
Lackey, Chester T.	B. A.	Ontario
Lambert, Ione	B. A.	Portland
Lane, Mabel Joy	B. A.	Harrisburg
Lane, Harriet	B. A.	Portland
Larsen, Alice	B. A.	Portland
Larsen, Maybelle Churchwright	B. A.	Astoria
Latourette, Earle Cornelius	B. A.	Oregon City
Learned, Mildred Ernestine	B. A.	Portland
Leggett, John F.	B. A.	Albany
Leonard, Homer C.	B. A.	Corvallis
Lewis, Arthur H.	B. A.	Portland
Lewis, Donald Lyman	E. E.	Monmouth
Libby, Edith Evelyn	B. A.	Jefferson
Lilly, Jennie	B. A.	Portland
Littig, Harry Bond	E. E.	Baker City
Loosley, Cary V.	E. E.	Ft. Klamath
Lowell, Harry	B. A.	Eugene
Lowell, William E.	B. A.	Pendleton
Luckey, John Elwood	B. A.	Hood River
Lyans, Cecil Kenyon	B. A.	Eugene
Lyans, Roscoe C.	B. A.	Eugene
Lyster, Lily A.	B. A.	Rohnerville, Cal.
Mackenzie, Ronald Seaforth	B. A.	Portland
MacKenzie, Gladys May	B. A.	Portland
Magladry, Grace E.	B. A.	Donna
Main, William Sangster	C. E.	Santa Barbara, Cal.

Manville, Ira Albert	B. A.	Eugene
Markart, Minnie C.	B. A.	Monmouth
Markart, Alice Irene	B. A.	Monmouth
Marquis, Florence Juanita	B. A.	Corvallis
Marshall, Charles Louis	B. A.	Portland
Marshall, Earl A.	B. A.	Portland
Martin, Edgar E.	C. E.	Wendling
Mason, Louise	B. A.	St. Louis, Mo.
Maurer, Pansy	B. A.	Eugene
Mayo, Earl E.	C. E.	Portland
McCallum, Effie Belle	B. A.	Eugene
McCauley, Chandler Marion	E. E.	Klamath Falls
McClaine, Fielda Z.	B. A.	Silverton
McConnell, Howard	B. A.	Eugene
McCoy, Louis Edwin	E. E.	Portland
McDaniel, David Lester	Min. E.	Rock Creek
McEwen, Ralph B.	C. E.	Athena
McFarland, Mary Alice	B. A.	Grants Pass
McIntire, Walter E.	Min. E.	Ashland
McIntosh, Earl Forest	C. E.	Olympia, Wash.
McKelvey, Merle	B. A.	Portland
McKenna, Mary Pearl	B. A.	Portland
McKenzie, Robert B.	C. E.	Athena
McKinley, E. Lewellyn	C. E.	Lents
McKown, Hazel Evangeline	B. A.	Glendale, Cal.
McKown, Rebecca Imogene	B. A.	Glendale, Cal.
McNair, Hazel Mae	B. A.	Tillamook
McNeill, Nellie F.	B. A.	Medford
McPherson, Lela Treado	B. A.	Springfield
Means, Arthur G.	B. A.	Pendleton
Means, Lester Alan	Min. E.	Pendleton
Meier, William Martin	E. E.	Portland
Merrick, Ruth M.	B. A.	Medford
Merryman, Harold C.	B. A.	Portland
Michael, Graham J.	C. E.	San Francisco, Cal.
Mickleson, Edith	B. A.	Eugene
Miller, Ermel M.	B. A.	Portland
Mills, Orrin Cecil	C. E.	Prineville
Minear, Earl L.	B. A.	Medford
Mix, Edgar Henry	C. E.	Portland

Moon, Harry W.	C. E.	Drain
Moore, Arthur R.	Min. E.	Buffalo, N. Y.
Moore, Charles Rutherford	B. A.	Eugene
Moore, Harry Rufus	B. A.	Portland
Moore, Harvard C.	B. A.	Portland
Moore, John Meldrum	B. A.	Klamath Falls
Moores, Chester Alexander	B. A.	Portland
Moores, Ralph Dickenson	B. A.	Salem
Morgan, Ellsworth A.	B. A.	Gold Beach
Mott, William Boyd	B. A.	Salem
Moullen, Frederick Charles	M. E.	San Francisco, Cal.
Moxley, L. Dow	B. A.	Ames, Iowa
Murphy, Nelle	B. A.	Laurens, Iowa
Myers, Leon LeRoy	B. A.	Eugene
Neal, Carl B.	B. A.	Buena Vista
Needham, Oliver B.	B. A.	Eugene
Neill, James K.	E. E.	La Grande
Nelson, Frances Maxwell	B. A.	Albany
Nelson, Robert Homer	C. E.	Albany
Newland, R. P.	C. E.	Stanford, Cal.
Newman, Erbine	E. E.	Woodburn
Newton, Obie H.	B. A.	Klamath Falls
Nicholas, Wilson Carey	B. A.	Portland
Nicholas, Winn	B. A.	Portland
Norcross, David Edwin	B. A.	Eugene
Northrop, Frank Ford	E. E.	Wayne, Neb.
Oberteuffer, Sara Frances	B. A.	Portland
Odell, James M.	B. A.	Baker City
Ogden, Melvin Pool	B. A.	Portland
Oleson, Charles Raymond	C. E.	Portland
Olson, David Eugene	B. A.	Eugene
Olsen, Olga Eunice	B. A.	Portland
O'Neill, Robert Harold	C. E.	Grants Pass
Orrick, John M.	B. A.	Eugene
Osterholm, Claus Adolph	B. A.	Brooklyn, N. Y.
Otten, George H.	C. E.	Portland
Parkhurst, Helen Partridge	B. A.	Boston, Mass.
Page, Arthur H.	C. E.	Ione
Parks, Leon C.	E. E.	Junction City
Pattee, Clyde	E. E.	Hood River

Patterson, Henry R.	C. E.	Portland
Payton, Alma	B. A.	Baker City
Perkins, Alonzo A.	E. E.	Salem
Perkins, William Henry	B. A.	Salem
Perry, Jennie May	B. A.	Portland
Pickard, Lloyd	B. A.	Eugene
Pinkham, Cornelia Ann	B. A.	Spokane
Pinkham, Louis Hampden	C. E.	Spokane
Platts, Edwin	E. E.	Eugene
Powell, Robert Burns	B. A.	Weston
Powers, Alfred	B. A.	Parkplace
Poysky, George J.	C. E.	Astoria
Pratt, Ruby L.	B. A.	Eugene
Prescott, Edith Elizabeth	B. A.	Baker City
Prosser, Jessie A. E.	B. A.	Eugene
Prosser, Lila Carrie	B. A.	Eugene
Prosser, Myrtle E.	B. A.	Acme
Ramsdell, Robert E.	E. E.	Portland
Randall, Charles Z.	B. A.	Woodburn
Rankin, Merwin	B. A.	Portland
Rankin, Ormond	B. A.	Portland
Rast, John V.	C. E.	Roseburg
Ray, L. Leon	B. A.	Eugene
Reid, Paul W.	E. E.	Portland
Reynolds, Charles N.	B. A.	Gilmer, Wash.
Richardson, Joel H.	B. A.	La Grande
Riddell, George Xenophon	C. E.	Portland
Riddle, Sara	B. A.	La Grande
Rinehart, William Lester	B. A.	Fossil
Risley, Francis R.	Min. E.	Roseburg
Risley, Oliva	B. A.	Roseburg
Roberts, Allyn F.	B. A.	The Dalles
Roberts, Nathaniel E.	B. A.	Springfield
Robinson, Aildie Edith	B. A.	Wilderville
Robinson, Samuel James	M. E.	Nampa, Idaho
Robison, Charles William	B. A.	Oregon City
Roche, George Francis	M. E.	Portland
Rolfe, Ruth Fannette	B. A.	Eugene
Roome, Herbert M.	C. E.	Eugene
Rounds, Harold Judson	B. A.	Hillsdale

Rugh, Loyall	B. A.	Eugene
Ruth, William A.	B. A.	Springfield
Sage, Estella Mae	B. A.	Eugene
Salisbury, Raymond	B. A.	Eugene
Sanderson, Vera Elizabeth	B. A.	Eugene
Sayle, Harry A.	M. E.	Ashland
Schafer, Charles A.	M. E.	Portland
Schantin, George Wence	B. A.	Cleone
Schuele, George Edward	E. E.	Vancouver, Wash.
Schumacher, Frederick Wilbur	E. E.	Baker
Scullen, Alfred W.	E. E.	Ashland
Scullen, Herman A.	B. A.	Ashland
Service, Maude L.	B. A.	Baker City
Shangle, Clanton Paine	B. A.	Milton
Sharpe, Ethel E.	B. A.	Portland
Shattuck, John Wesley	B. A.	Gresham
Shaver, Isolene	B. A.	Portland
Shaver, Pansy	B. A.	Portland
Shaver, John Willard	B. A.	Portland
Sherk, Everett H.	B. A.	Oak Grove
Showers, Loretta	B. A.	Portland
Shrode, Jettie	B. A.	Tillamook
Sievers, Charles Theodore	B. A.	Parkplace
Sigel, Glenn Lara	B. A.	Portland
Slater, Harvey M.	B. A.	Salem
Smith, William E.	B. A.	Jefferson
Snow, Charles MacCormac	B. A.	Portland
Stackpole, Harvey M.	Min. E.	Ketchikan, Alaska
Stanfield, Javina Lucy	B. A.	Portland
Starbuck, Morris W.	B. A.	Eugene
Stastny, Matthew Michel	B. A.	Jefferson
Steele, Clarence A.	B. A.	Portland
Steelquist, Reuben U.	E. E.	Portland
Steiwer, Leland L.	B. A.	Fossil
Steiwer, Mary	B. A.	Fossil
Stephens, F. Claude	B. A.	Eugene
Stern, Frank C.	E. E.	Baker City
Stevens, William P.	B. A.	Cove
Stewart, Ralph	Min. E.	Albany
Stillman, Ruth Adeline	B. A.	Eugene

Stillman, Arthur B.	B. A.	Eugene
Stine, Harry Moran	B. A.	Monmouth
Stivers, Elijah V.	B. A.	Eugene
St. John, William Errle	B. A.	Eugene
Stoddard, Alice Erna	B. A.	Portland
Stoddard, Clarence Louis	E. E.	Portland
Stowe, Marion Eugenia	B. A.	Portland
Strang, Frederick Lawrence	B. A.	Medford
Strong, Earl F.	B. A.	Roseburg
Struck, Ferdinand Theodore	C. E.	Hood River
Svarverud, Van	C. E.	Eugene
Sweany, Henry Claris	B. A.	Eugene
Sweek, Calvin Lawrence	B. A.	Monument
Sweet, Pearl A.	B. A.	Coquille
Swift, Frank Houston	E. E.	Pleasant Hill
Takahashi, Heroshi	B. A.	Tokio, Japan
Talbert, George T.	C. E.	Milton
Terry, Roy Keats	B. A.	Portland
Thomas, Raymond V.	C. E.	Ashland
Thompson, Aline	B. A.	Salem
Tidwell, Ola Mae	B. A.	Atwood, Colo.
Todd, Ethel F.	B. A.	Tillamook
Tomlinson, Grace Evangeline	B. A.	Seattle
Tong, Lee	B. A.	Canton, China
Tooze, Lucile Ethel	B. A.	Falls City
Townsend, Thomas R.	B. A.	Roseburg
Trafzer, Percy A.	B. A.	Eugene
Travis, Emma Marie	B. A.	Eugene
Treiber, Rose Ellen	B. A.	Hood River
Trew, Arthur S.	B. A.	West Farmington, Ohio
Tucker, Earl W.	B. A.	Syracuse, N. Y.
Turner, Rex A.	B. A.	Salem
Van Dusen, Arthur	B. A.	Astoria
Van Marter, La Verne	B. A.	Lebanon
Van Scoy, Paul	C. E.	Eugene
Van Valzah, Laurie	B. A.	Springfield
Voigt, Victor William	B. A.	Portland
Walls, Clarence William	M. E.	Portland
Walsh, Francis	E. E.	Portland
Walsh, Raymond	Min. E.	Portland

Washburne, Helen G.	B. A.	Springfield
Waterman, Emma	B. A.	Baker City
Watson, Richard Gwyn	B. A.	Eugene
Watson, Mary E.	B. A.	Eugene
Wattenburg, Wilfred	C. E.	Fossil
Welch, Calvin Lee	B. A.	Portland
Welch, E. Lindley	B. A.	Kelso, Wash.
Wetterborg, Herman A.	E. E.	Portland
White, George M.	B. A.	Portland
Whittlesey, Frederick James	C. E.	Portland
Widlund, Charles E.	Min. E.	Healdsburg, Cal.
Wightman, Hazel Emaline	B. A.	Portland
Wilbur, Pearl Helena	B. A.	San Francisco, Cal.
Wilcox, Cecile	B. A.	Independence
Wilkins, Lucia Winona	B. A.	Eugene
Williams, Benjamin H.	B. A.	Eugene
Williams, Theodore Goodrich	B. A.	Portland
Williams, William G.	E. E.	Eugene
Williamson, Naomi	B. A.	La Grande
Wines, Clara May	B. A.	Medford
Winsor, Frank H., Jr.	Min. E.	Mitchell, S. D.
Winsor, George W.	E. E.	Mitchell, S. D.
Wise, Birdie	B. A.	Astoria
Wittenberg, Louis Mason	E. E.	Portland
Wood, Clinton Duane	E. E.	Payette, Idaho
Wood, J. LeRoy	M. E.	Nome, Alaska
Wood, Raymond H.	C. E.	Eugene
Wood, William H.	C. E.	Astoria
Woodcock, Edith Marion	B. A.	Portland
Woodruff, Ray	B. A.	Portland
Word, Tom, Jr.	B. A.	Portland
Wright, Leonard	B. A.	Payette, Idaho
Young, Stanley D.	C. E.	Portland
Young, Stanley Paul	Min. E.	Astoria
Young, Frances Packard	B. A.	Eugene
Zimmerman, Mabel June	B. A.	Cleone
Zimmerman, Olive Hope	B. A.	Cleone

SCHOOL OF LAW

FIRST YEAR.

Anderson, Peter, A.	Portland
Ashford, Thomas P.	Canyon City
Butler, J. Dean	Monmouth
Brown, E. H.	Portland
Carl, Ira W.	Portland
Cason, Boon	Sellwood
Coffey, John B.	Portland
Dean, Charles	Portland
Dawley, Lewis H.	Portland
Dixon, George W.	Canby
Eubanks, Clarence M.	Portland
Feldman, Jacob	Portland
Furuset, Oscar	Portland
Gantter, Arthur J.	Portland
Gleason, Walter B.	Portland
Goldstein, Morris A.	Portland
Gore, Millard	Portland
Hawkins, A. W.	Portland
Hardin, Dante E.	Vancouver, Wash.
Hay, Arthur D.	Portland
Heitschmidt, Bert	Portland
Holland, Clifford G.	Portland
Hollabaugh, Royal O.	Portland
Hoff, Edwin M.	Portland
Hotchkiss, Clarence R.	Portland
Johnson, Albert G.	Portland
Kaihara, I.	Portland
Kimura, T.	Portland
Korell, Franklin F.	Portland
Lee, Charles S.	Portland
Loeding, Herman F.	Milwaukie
Luckey, Blanche	Portland
Lyons, Harry DeWitt	Portland
Mackay, David N.	Portland
McCutcheon, Samuel A.	Portland
Moores, Gordon C.	Portland
Moy, W. B.	Portland

Nelson, Abraham	Portland
Nordstrom, Frank A.	Portland
Olsen, Charles W.	Portland
Payne, John Howard	Vancouver, Wash.
Peil, Frank A.	Portland
Powell, Ridgley K.	Portland
Rogers, George H.	Portland
Searcy, Robert D.	Portland
Schneer, Bernard L.	Portland
Sever, Frank	Portland
Siever, John N	Parkplace
Snodgrass, Edward A.	Portland
Snow, Melvin D.	Portland
Swart, Harry A.	Portland
Tuerk, Henry K.	Portland
Tupper, Willard A.	Portland
Veatch, John C.	Portland
Whiting, George R.	Portland
Young, Elmer E.	Portland

SECOND YEAR.

Applegren, Carl A.	Portland
Butler, J. Dean	Monmouth
Black, Richard E.	Portland
Bennett, James	Portland
Briscoe, James W.	Portland
Carter, M. D.	Portland
Clark, M. H.	Portland
Downes, J. R.	Portland
Dyke, W. P.	Hillsboro
Deich, Richard	Portland
Dugan, W. W.	Portland
Eaton, Clarence L.	Oregon City
Giles, Claude H.	Portland
Hai, Mai P.	Portland
Hannon, J. P.	Portland
How, Wong Back	Canton, China
Hughes, John R	Portland
Johns, Claud M.	Portland
Johnson, George A.	Portland

Joyce, John M. ..... Portland
Jones, J. H. ..... Portland
Louderback, Kenneth J. ..... Orient
McCredie, Hugh ..... Vancouver, Wash.
McDonald, P. A. ..... Portland
Mahoney, C. J. ..... Marshfield
Mathison, E. E. ..... Portland

THIRD YEAR.

Anderson, A. A. ..... Portland
Bryant, John Cullen ..... Portland
Behrman, Leon W. ..... Portland
Buckman, Miss Wilda ..... Portland
Collier, Frank T. ..... Portland
Christensen, C. D. ..... Portland
Conklin, Willard M. ..... Portland
Down, Robert H. ..... Portland
D'Arcy, James F. ..... Portland
Fliedner, L. W. ..... Portland
Goetz, Robert ..... Oregon City
Giles, Claude H. ..... Portland
Johns, Claud M. ..... Portland
Johnson, George Chester ..... Portland
Kato, Shosaburo ..... Iida, Japan
Landis, Norman R. ..... Portland
Mahoney, C. J. ..... Marshfield
Mathews, David P. ..... Oregon City
Person, Alva W. ..... Portland
Rogers, Alton ..... Portland
Slovarp, Emil P. ..... Portland
Smith, Lawrence B. ..... Portland
Stevens, Orvilla A. ..... Portland
Taylor, Ira ..... Portland
Takahashi, M. ..... Hirashima City, Japan
Woerndle, Joseph ..... Portland

SCHOOL OF MEDICINE

FRESHMEN.

Bolcom, Mrs. Daisy F. ..... Seattle, Wash.
Barrett, Ira E. ..... Hillsboro
Brooke, Lloyd W. ..... Portland
Clerf, Louis H. ..... Ellensburg, Wash.
Cleveland, Donald E. H. ..... Victoria, B. C.
Green, Otto I., B. S. ..... Portland
Loeding, Chas. F. ..... Milwaukie
McCown, Arthur F. ..... Prosser, Wash.
Miller, Dwight F. ..... Portland
Murphy, George E. ..... Olympia, Wash.
Noyes, Allen P. ..... Portland
Roach, Laman S. ..... Butte, Mont.
Roberts, Lafayette O. ..... Portland
Ross, Clarence W., A. B. ..... Lebanon
Runnalls, Thos. H. B. ..... Puyallup, Wash.
Stout, William G., B. S. ..... McMinnville
Thompson, Alfred W. ..... North Yakima, Wash.
Turnbull, Frederick C. ..... Wellington, New Zealand
Wang, Stanley L. ..... Canby
Younice, Arthur C. ..... Sand Point, Idaho
Ziegelman, Edward F. ..... Eureka, Cal.

SOPHOMORES.

Adams, Fred ..... Roseburg
Anderson, Gilbert E. ..... Medford
Anderson, Edgar H. ..... Portland
Barendrick, William H. ..... Portland
Bisaillon, James M. ..... Portland
Borland, Walter A. ..... Tacoma, Wash.
Canfield, Henry A., Jr. ..... Seattle, Wash.
Cathey, Collins F. ..... Corvallis
Coberth, Thompson ..... Portland
Gillis, James B. ..... Walla Walla, Wash.
Leep, Roland V. ..... Myrtle Point
Mount, Albert ..... Silverton
Pearson, Shurl R. ..... Salem

Purcell, Michael E. ..... Couer d'Alene, Idaho
Reith, John ..... Walla Walla, Wash.
Riggs, G. E. ..... Vancouver, Wash.
Shoot, Harry E. ..... Kalama, Wash.
Smith, Fred M. Leeston ..... Portland
Stafrin, Christian E. ..... Dallas
Streit, Ernest H. ..... Portland

JUNIORS.

Brown, Elwin ..... Tacoma, Wash.
Brooke, Banner R. ..... Portland
Carl, George G. ..... Pendleton
Dinsmore, John B. ..... Eugene
Forrest, Merle V. ..... Amity
Gale, Arthur ..... Baker
Gaunt, George G. ..... Clemons, Iowa
Graffis, Robert S. ..... Portland
Jones, Marion J. ..... Portland
Lowe, Wilbur ..... Linnton
McCauley, James F. ..... Portland
Miller, William J. .....
Morrow, Earl V. ..... Portland
Rosenthal, Samuel E. ..... Portland
Russell, Homer E. ..... Seattle, Wash.
Simonson, Christian J. ..... Kendrick, Idaho
Wilcox, Clair C. ..... Goldendale, Wash.
Whittaker, John C. ..... Eugene

SENIORS.

Akin, Otis F. ..... Portland
Cathey, George A. ..... Corvallis
Darby, James A. ..... Pomeroy, Wash.
Davis, Ralph F. ..... Boise, Idaho
Eastland, Herbert C., A. B. ..... Eugene
Gambee, Edwin E. ..... Santa Clara, Cal.
Graham, James P. ..... Portland
Haile, Homer B. ..... Vancouver, Wash.
Jessup, Donald H. ..... Portland
Johnson, Leslie G. ..... Portland
Kerron, Seth M., A. B. ..... Portland

Rue, Homer A. ..... St. Johns
Rybke, Charles L. ..... Portland
Spurrier, Ravinna T. ..... Portland
Via, Guy F. ..... Forest Grove

ELECTIVE.

Lockwood, William D., M. D. ..... St. Joseph, Mo.

SCHOOL OF MUSIC

PIANO.

Allen, Franklyn ..... Eugene
Anderson, Ella ..... Cottage Grove
Anderson, T. A. ..... Eugene
Bayne, Allene ..... Eugene
Beals, Maude ..... Eugene
Bean, Marcel ..... Eugene
Bingham, Grace ..... Eugene
Booth, Floyd ..... Eugene
Bradley, Hazel ..... Portland
Branstetter, Lucilla ..... Eugene
Calkins, Jeanette ..... Eugene
Calkins, Magdalene ..... Eugene
Campbell, Alberta ..... Eugene
Carrol, Cleone ..... Eugene
Croner, Gladys ..... Eugene
Davis, Hattie ..... Eugene
Davis, Pauline ..... Eugene
Delay, May ..... Eugene
Elliott, Erma ..... Coburg
Evans, Ethel ..... Eugene
Evans, Meta ..... Eugene
Fariss, Jessie ..... Eugene
Fry, Jennie ..... Salem
Furuset, Esther ..... Eugene
Garrett, Lida ..... Eugene
Garrett, Francis ..... Eugene
Garrett, Hattie ..... Eugene
Gibson, Ethel ..... Coburg
Gibson, Mae ..... Eugene

Gibson, Earl	Eugene
Gillette, Albert	Eugene
Gillette, Mamie	Eugene
Gilkey, Lillian	Eugene
Glen, Harold	Eugene
Goff, Adele	Hood River
Gray, Gertrude	Eugene
Green, Lois	Eugene
Green, Rhoda	Eugene
Hager, Celia	Eugene
Hales, Beatrice	Eugene
Hales, Virginia	Eugene
Herren, Vera	Cottage Grove
Hill, Esther	Eugene
Holmes, Aileen	Eugene
Holt, Mrs. V. L.	Eugene
Howe, Lola	Eugene
Huff, Hazel	Eugene
Job, Emma	Cottage Grove
Johnson, Helen	Eugene
Johnson, Pearl	Eugene
Kelly, Jean	Eugene
Kenny, Helen	Leona
Koyl, Helen	Eugene
Lackey, Emily	Eugene
Lindley, Pearl	Eugene
Lounsbury, Althea	Eugene
Manerud, Nora	Eugene
Maurer, Pink	Eugene
Maurer, Pansy	Eugene
Magladry, Grace	Eugene
Meersdorf, Clara	Eugene
Metcalf, Mrs. G. E.	Eugene
Morse, Mrs. W. P.	Eugene
Murphy, Nellie	Eugene
Pratt, Ruby	Eugene
Prosser, Lila	Eugene
Prosser, Robert	Eugene
Purdy, Harriet	Eugene
Quackenbush, Veda	Eugene

Ransom, Georgine ..... Eugene
Rohrer, Esther ..... Eugene
Rowland, Gladys ..... Eugene
Ruble, Eva ..... Eugene
Sage, Mae ..... Eugene
Scaife, Marguerite ..... Eugene
Schlomberg, Pearl ..... Eugene
Service, Maude ..... Baker City
Seymour, Zella ..... Eugene
Sharp, Ethel ..... Portland
Smith, West ..... Eugene
Smith, Mildred ..... Eugene
Stafford, Esther ..... Eugene
Stansbie, Muriel ..... Eugene
Starbuck, Winifred ..... Eugene
Stearns, Grace ..... Eugene
Stearns, Esther ..... Eugene
Sterner, Hattie ..... Eugene
Sterner, Lucile ..... Eugene
Stewart, Mrs. H. ..... Eugene
Stillman, Ruth ..... Eugene
Stowe, Marion ..... Salem
Tiffany, Grace ..... Eugene
Tooze, Lucile ..... Falls City
Veatch, Lottie ..... Eugene
Walker, Madeline ..... Salem
Washburne, James ..... Junction
Watkins, Ina ..... Eugene
Watson, Katherine ..... Eugene
Ward, Edna ..... Eugene
Wheeler, Ethel ..... Eugene
Wilkins, Juanita ..... Eugene
Willoughby, Paul ..... Eugene
Woodruff, Ray ..... Eugene
Zimmerman, Mabel ..... Portland
Zimmerman, Olive ..... Portland

HARMONY.

Abrams, Lucille ..... Eugene
Anderson, Ella ..... Cottage Grove
Bingham, Grace ..... Eugene

Fariss, Jessie ..... Eugene
Herren, Vera ..... Cottage Grove
Kenny, Helen ..... Leona
Lackey, Emily ..... Eugene
Lindley, Pearl ..... Eugene
Lyans, Cecil ..... Eugene
Manerud, Mabel ..... Eugene
Smith, West ..... Eugene
Taylor, Camille ..... Eugene
Walker, M. D. ..... Springfield

INTERPRETATION AND FORM.

Anderson, T. A. ..... Eugene
Beals, Maude ..... Eugene
Booth, Floyd ..... Eugene
Bradley, Hazel ..... Portland
Davis, Pauline ..... Eugene
Fariss, Jessie ..... Eugene
Hager, Celia ..... Eugene
Kenny, Helen ..... Leona
Lackey, Emily ..... Eugene
Lindley, Pearl ..... Eugene
Manerud, Mabel ..... Eugene
Prosser, Lila ..... Eugene
Sharp, Ethel ..... Portland
Stillman, Ruth ..... Eugene
Walker, Madeline ..... Salem
Woodruff, Ray ..... Eugene
Zimmerman, Olive ..... Portland

VOICE.

Beck, Sidney ..... Portland
Bergman, Annie ..... Astoria
Boles, A. M. ..... Eugene
Callison, Mrs. ..... Eugene
Campbell, Erma ..... Eugene
Clarke, H. H. ..... Portland
Cross, Juliet ..... Oregon City
Curtis, F. D. ..... Portland
Curtis, C. C. ..... Eugene
Davidson, S. R. ..... Portland

Delano, Helene ..... Eugene
Dixon, Mrs. A. C. ..... Eugene
Drew, H. L. ..... Tillamook
Dunn, Lucille ..... Eugene
Eads, Miss E. ..... Eugene
Fariss, Robt. ..... Eugene
Gallogly, Maude ..... Eugene
Gillette, Albert ..... Eugene
Gillette, Mamie ..... Eugene
Guiley, J. D. ..... Ashland
Hansen, Mrs. C. ..... Eugene
Hayes, Sue ..... Baker City
Hedges, I. ..... Eugene
Hickathier, M. ..... Cottage Grove
Hoover, Thos. ..... Independence
Huff, Hazel ..... Eugene
Humphrey, Hazel ..... Eugene
Johnson, Mrs. L. M. ..... Eugene
Judkins, Mrs. E. F. ..... Eugene
Lambert, Ione ..... Portland
McNair, Hazel ..... Tillamook
Payton, Alma ..... Baker City
Potter. Pauline ..... Eugene
Prescott, Edith ..... Baker City
Prescott, B. W. ..... Baker City
Prosser, Lila ..... Eugene
Quackenbush, Veda ..... Eugene
Quinn, Florence ..... Eugene
Robinson, Aildie ..... Grants Pass
Scaife, M. ..... Eugene
Steelquist, Reuben ..... Portland
Stuart, W. ..... Springfield
Sullivan, George ..... Oregon City
Sweet, Pearl ..... Eugene
Tidwell, O. F. ..... Eugene
Tooze, Lucile ..... Falls City
Travis, Emma ..... Eugene
Wilbur, Pearl ..... Union
Williams, Angeline ..... Oregon City
Wood, L. ..... Eugene

VIOLIN.

Abrams, Lucile	Eugene
Campbell, Erma	Eugene
DeBar, Mary	Eugene
Lyans, Cecil	Eugene
Roach, Buford	Eugene
Studley, Mary	Eugene
Taylor, Camille	Eugene

SUMMARY OF OFFICERS AND INSTRUCTORS

Administration—		
Regents	9	
Other Administrative Officers	13	22
Instruction—		
Academic Colleges and Schools:		
Professors and Assistant Professors	25	
Instructors and Assistant Instructors	16	
School of Music	7	
School of Medicine	36	
School of Law	18	102
		124
Deducting for names appearing more than once		10
Total Officers and Instructors		114

SUMMARY OF STUDENTS

Graduate School		12
College of Literature, Science and the Arts—		
Men	194	
Women	196	390
College of Engineering—		
Civil Engineering	65	
Mining Engineering	24	
Electrical Engineering	48	
Mechanical Engineering	9	146
School of Law—		
First Year	56	
Second Year	26	
Third Year	26	108
School of Medicine—		
Freshmen	21	
Sophomores	20	
Juniors	18	
Seniors	16	75
School of Music—		
Piano	106	
Harmony	13	
Interpretation and Form	17	
Voice	50	
Violin	7	168
		899
Deduct for names appearing more than once		72
Total students in all departments		827
Total officers, instructors and students		941

CORRESPONDENCE SCHOOL

Students enrolled	358

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