

The University of Oregon

CATALOGUE 1907-1908



ANNOUNCEMENTS FOR 1908-1909

PUBLISHED BY THE UNIVERSITY
APRIL, 1908

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THE REGISTRAR,
University of Oregon, Eugene, Oregon.

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CALENDAR

1908

		Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.			Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.			Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.					
July		5	6	7	8	9	10	11	Sep.		6	7	8	9	10	11	12	Nov.		1	2	3	4	5	6	7					
		12	13	14	15	16	17	18			13	14	15	16	17	18	19			8	9	10	11	12	13	14					
		19	20	21	22	23	24	25			20	21	22	23	24	25	26			15	16	17	18	19	20	21					
		26	27	28	29	30	31	..			27	28	29	30	..	..			22	23	24	25	26	27	28				
Aug.		1	Oct.		1	2	3	Dec.		1	2	3	4	5
		2	3	4	5	6	7	8			4	5	6	7	8	9	10			6	7	8	9	10	11	12					
		9	10	11	12	13	14	15			11	12	13	14	15	16	17			13	14	15	16	17	18	19					
		16	17	18	19	20	21	22			18	19	20	21	22	23	24			20	21	22	23	24	25	26					
	23	24	25	26	27	28	29		25	26	27	28	29	30	31		27	28	29	30	31	..	..						
	30	31	..	..	..	..	..		..	..	..	..	..	..	..		..	..	..	..	..	..	..

1909

Jan.		3	4	5	6	7	8	9	May		2	3	4	5	6	7	8	Sep.		5	6	7	8	9	10	11
		10	11	12	13	14	15	16			9	10	11	12	13	14	15			12	13	14	15	16	17	18
		17	18	19	20	21	22	23			16	17	18	19	20	21	22			19	20	21	22	23	24	25
		24	25	26	27	28	29	30			23	24	25	26	27	28	29			26	27	28	29	30	..	..
	31	..	..	..	..	..	..		30	31	..	..	..	..		..	..	..	..	..	..	..
Feb.		..	1	2	3	4	5	6	June		6	7	8	9	10	11	12	Oct.		3	4	5	6	7	8	9
		7	8	9	10	11	12	13			13	14	15	16	17	18	19			10	11	12	13	14	15	16
		14	15	16	17	18	19	20			20	21	22	23	24	25	26			17	18	19	20	21	22	23
		21	22	23	24	25	26	27			27	28	29	30	..	..			24	25	26	27	28	29	30	
	28	..	..	..	..	..	..		..	..	..	..	..	..		31	..	..	..	..	..	..
Mar.		..	1	2	3	4	5	6	July		4	5	6	7	8	9	10	Nov.		7	8	9	10	11	12	13
		7	8	9	10	11	12	13			11	12	13	14	15	16	17			14	15	16	17	18	19	20
		14	15	16	17	18	19	20			18	19	20	21	22	23	24			21	22	23	24	25	26	27
		21	22	23	24	25	26	27			25	26	27	28	29	30	31			28	29	30	..	..	..	..
	28	29	30	31	..	..	..		..	..	..	..	..	..		..	..	..	..	..	..	..
Apr.		..	..	..	..	1	2	3	Aug.		1	2	3	4	5	6	7	Dec.		5	6	7	8	9	10	11
		4	5	6	7	8	9	10			8	9	10	11	12	13	14			12	13	14	15	16	17	18
		11	12	13	14	15	16	17			15	16	17	18	19	20	21			19	20	21	22	23	24	25
		18	19	20	21	22	23	24			22	23	24	25	26	27	28			26	27	28	29	30	31	..
	25	26	27	28	29	30	..		29	30	31	..	..	..		..	..	..	..	..	..	..

CALENDAR

September 21.—Admission examinations.
 September 22 to February 12.—First semester.
 February 15 to June 23.—Second semester.

CALENDAR IN DETAIL

- September 14, Monday. Session of the School of Medicine begins in Portland.
- September 21, Monday. Session of the School of Law begins in Portland.
- September 21, Monday. Entrance examinations at Eugene for the College of Literature, Science and the Arts, and the college of Engineering. Test examination in English.
- September 22, Tuesday } First semester opens. Filing of applications for undergraduate, graduate and special student standing. Payment of incidental fees and registration. Committees of the faculty and Instructors keep office hours for consultation with the students.
- Sept. 23, Wednesday. }
- September 24, Thursday. All University work begins.
- October 2, Friday. Reception to new students by the Christian Associations.
- October 7, Wednesday. Regular meeting of Associated Students.
- October 8, Thursday. Last date for filing subjects for senior theses with the Registrar.
- November 24, Tuesday. Annual Glee Club Concert.
- November 25, 12 M. to } Thanksgiving recess.
- November 29, Sunday. }
- December 7, Monday. } Examinations for removal of conditions.
- December 8, Tuesday. }

December 19, Saturday to January 3, Sunday.	} Christmas vacation.
January 8, Friday.	Last date for filing with the Registrar subjects for Failing and Beekman orations.
January 8, Friday.	Annual tryout Interstate Debating Teams.
January 19, Tuesday.	Regular meeting of the Board of Regents, at Portland.
January 29, Friday.	Annual contest in Oratory to choose representative for the Intercollegiate contest.
February 3, Wednesday.	Mid-year examinations begin.
February 12, Friday.	First semester ends.
February 15, Monday.	Second semester begins.
February 19, Friday.	Annual contest in Oratory to choose representative for Interstate contest.
February 23, Wednesday.	Regular meeting of Associated Students.
March 26, Friday.	Annual Interstate Debate. Villard Hall.
April 17, Saturday	} Spring vacation.
April 24, Sunday.	
May 1, Saturday.	Graduating exercises School of Medicine.
May 1, Saturday.	Preliminary tryout for Failing and Beekman orators.
May 1, Saturday.	Date for filing with the Registrar type-written copies of the Failing and Beekman orations.
May 3, Monday.	} Examinations for removal of conditions.
May 4, Tuesday.	
May 3, Monday.	Last date for filing applications for graduate degrees with the Registrar.
May 10, Monday.	Last date for filing graduate theses with the Registrar.
May 12, Wednesday.	Regular meeting of Associated Students.
May 14, Friday.	Annual Election.
May 22, Saturday.	University day. A holiday.
June 5, Saturday.	Session of the School of Law ends.
June 9, Wednesday.	Last date for filing senior theses with the Registrar.
	Final examinations begin.

COMMENCEMENT WEEK

June 20, Sunday.	Baccalaureate sermon, 11 a. m.
June 21, Monday.	Field day, 2 p. m.; Recital School of Music, 8 p. m.
June 22, Tuesday.	Alumni business meeting, 10 a. m.; President's reception, 3 p. m.; Failing-Beekman contest, 8 p. m.
June 22, Tuesday.	Regular meeting of the Board of Regents, President's office, Villard Hall.
June 23, Wednesday.	Commencement exercises, 10 a. m.; Alumni banquet, 1 p. m.; Alumni ball 9 p. m.

REGULAR MEETINGS OF THE FACULTY 1908-09

Thursday, October 1,	1908.
Thursday, November 5,	1908.
Thursday, December 3,	1908.
Thursday, January 7,	1909.
Thursday, February 4,	1909.
Thursday, March 4,	1909.
Thursday, April 1,	1909.
Thursday, May 6,	1909.
Thursday, June 3,	1909.

REGULAR MEETINGS OF THE ATHLETIC COUNCIL 1908-09

Saturday, September 19,	1908.
Saturday, December 19,	1908.
Saturday, March 20,	1909.
Saturday, June 19,	1909.

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. J. C. AINSWORTH, Portland.....	April 15, 1917
HON. MILTON A. MILLER, Lebanon.....	April 15, 1917
HON. SAMSON H. FRIENDLY, Eugene.....	April 15, 1919

ADMINISTRATIVE OFFICERS

THE UNIVERSITY

P. L. CAMPBELL, A. B.....President
 A. R. TIFFANY, A. B.....Registrar
 LOUIS H. JOHNSON.....Financial Agent
 CAMILLA LEACH.....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
 LUELLE 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.
- B. 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.
- 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; Profes-
sor of Science and Mathematics, and Dean of the
Faculty, California College, 1901-03.
- LUELLA CLAY CARSON, 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.

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

- F. D. CHAMBERLAIN, A. B., LL. B. PORTLAND
Lecturer on Corporations and Partnerships.
- 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; Fellow in History University
of Wisconsin, 1902-03; Professor of History, Epworth
University, 1904-05; Professor of History, Bloomsburg
(Pa.) State Normal School, 1905-07; Acting Profes-
sor of History, University of Oregon, 1907-08.
- JOHN B. CLELAND, LL. B. PORTLAND
Lecturer on Sales.
Judge of the Circuit Court of the State of Oregon.
- TIMOTHY CLORAN, Ph. D., 717 Hilyard St. EUGENE
Professor of Romance Languages.
A. B. Western Reserve University, 1891; Instructor in
Latin and Greek, Geneva High School, 1891-93; Pro-
fessor of Greek, German and French, Shurtleff Col-
lege, 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 Lan-
guages, Vanderbilt University, 1900-04; Student, Uni-
versity of Paris, 1904-05; Student, University of Ma-
drid, 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 Univer-
sity, 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 Stu-
dent University of Chicago, 1896-97; M. S. University
of Chicago, 1897; Professor of Mathematics, Bethel
College, Russelville, Kentucky, 1897-99; Graduate Stu-
dent University of Chicago, 1899-00; University
Scholar Yale University, 1900-01; Professor of Math-
ematics, Bethel College, Russelville, Kentucky, 1901-
02; Acting President, Bethel College, 1902.

- FREDERIC STANLEY DUNN, A. M., 856 Alder St. EUGENE
Professor of Latin Language and Literature.
A. B. University of Oregon, 1892; A. B. Harvard University, 1894; A. M. University of Oregon, 1899; A. M. Harvard University, 1903.
- C. U. GANTENBEIN, LL. B. PORTLAND
Dean of the School of Law, and Professor of Criminal Law, Torts 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, A. M., 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; A. M. 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, A. M., 344 Lawrence St. EUGENE
Professor of Psychology.
A. M. Randolph Macon College.
- HERBERT CROMBIE HOWE, A. B., 908 Alder St. EUGENE
Professor of 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.
- KENNETH ALEXANDER J. MACKENZIE, M. D., C. M. PORTLAND
L. R. C. P. & L. R. C. S., Edinburg.
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.
- RICHARD W. MONTAGUE, LL. B. PORTLAND
Lecturer on Equity.
- 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.
- ALBERT EDWARD MACKAY, M. D. PORTLAND
Professor of Diseases of Genito-Urinary Organs.
- WALLACE McCAMANT, A. B. PORTLAND
Lecturer on Bailments and Carriers.
- MARTIN L. PIPES, A. B. PORTLAND
Lecturer on Contracts.
- HARRISON G. PLATT, A. B. PORTLAND
Lecturer on Negotiable Instruments.
- JOSEPH SCHAFFER, Ph. D. EUGENE
*Professor of History.
B. L. University of Wisconsin, 1894; Instructor State

*Leave of Absence, 1907-08.

University of Oregon

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., 345 E. 13th 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.

HENRY DAVIDSON SHELDON, Ph. D., 374 E 11th 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., 324 W. 4th 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, 1903-1905; 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., 386 E. 11th St. 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.

Officers of Instruction

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

A. B. Wesleyan University, 1884; A. M. Wesleyan University, 1887; Instructor in Cryptogamic Botany, Radcliffe College, 1895-97.

ARTHUR CLARK TERRILL, E. M., 387 E. 11th St. EUGENE
Professor of Mining and Metallurgy.

E. M. Colorado School of Mines, 1905; Superintendent Doctor-Jack Pot Mine, Cripple Creek, Colo., 1905-06.

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.

HOLT COUCH WILSON, M. D. PORTLAND
Emeritus Professor of Surgery.

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

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

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, ASSISTANT INSTRUCTORS AND OTHER OFFICERS

PERCY PAGET ADAMS, B. S. Instructor in Civil Engineering. A. B. University of Oregon, 1901; B. S. 1902.	EUGENE
JESSE H. BOND Assistant in Wood Shops	EUGENE
JULIA BURGESS, M. A. Instructor in English B. A. Wellesley College; M. A. Radcliffe College (Harvard University.)	EUGENE
MRS. S. C. CHURCH Assistant Librarian.	EUGENE
CHARLES W. CONVERSE, M. A. Instructor in Mechanical Engineering. A. B. University of Oregon, 1902; M. A. 1905.	EUGENE
MABEL COOPER, B. A. Assistant Instructor in English Literature. B. A. University of Oregon, 1907.	EUGENE
JAMES HENRY GILBERT, Ph. D. Instructor in Economics and Political Science. B. A. University of Oregon, 1903; Ph. D. Columbia University, 1907.	EUGENE
WILLIAM L. HAYWARD Physical Director.	EUGENE
ANDREW W. JACKSON, B. A. Assistant Instructor in Physics. B. A. University of Oregon, 1907.	EUGENE
MARY E. KENT, B. A. Assistant Instructor in Biology. B. A. University of Oregon, 1906	EUGENE
CAMILLA LEACH Librarian and Instructor in History of Art.	EUGENE

HEMAN BURR LEONARD, Ph. D., 659 Patterson St. Instructor in Mathematics. B. S. (E. E.) Michigan, 1895; Ph. D. University of Colorado, 1906.	EUGENE
CARL A. McCLAIN, B. S. Instructor in Civil Engineering. B. S. University of Oregon, 1906.	EUGENE
CHARLES ROY REID, B. S. Instructor in Civil Engineering and Physics. B. S. University of Oregon, 1906.	EUGENE
BERTHA ELLSWORTH SLATER, A. B., 765 Oak St. Instructor in Rhetoric and American Literature. A. B. University of Oregon, 1899.	EUGENE
ANGELINE WILLIAMS, B. A. Assistant Instructor in English Literature. B. A. University of Oregon, 1907.	EUGENE

SPECIAL LECTURERS, DEPARTMENT OF MEDICINE, PORTLAND

ROBERT CLARK YENNEY, M. D., Lecturer on Pathology.
EDWARD PAYSON GEARY, M. D., Lecturer on Physical Diagnosis.
CORTES HOLIDAY WHEELER, M. D., Lecturer on Hygiene.
JAMES OSCAR WILEY, M. D., Lecturer on Osteology and Syn- desmology.
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-Therapeu- tics.
FRANK M. TAYLOR, A. B., M. D., Lecturer on Dietetics, etc.

- J. C. ELLIOTT KING, M. D., Lecturer on Dermatology.
 OTIS BUCKMINSTER WIGHT, A. B., M. D., Lecturer on
 Clinical Surgery.
 WILLIAM HOUSE, M. D., Lecturer on Medical Jurisprudence.

LABORATORY DEMONSTRATORS

- LOUIS ARTHUR SHANE, M. D., Demonstrator of Anatomy.
 ORVILLE ARTHUR THORNTON, B. S., M. D., Asst. Demon-
 strator of Anatomy.
 THEODORE FESSLER, M. D., Laboratory Demonstrator of
 Chemistry.
 G. O. PELGRAM, M. D., Laboratory Demonstrator of Thera-
 peutics.
 C. J. McCUSKER, M. D., Laboratory Demonstrator of Physiology.
 RAY W. MATSON, M. D., Laboratory Demonstrator of Pathology.
 GUY H. OSTRANDER, B. S., M. D., Assistant Laboratory Dem-
 onstrator of Pathology.
 AUGUSTUS MARSHALL KINNEY, M. D., Laboratory Demon-
 strator of Bacteriology.

CLINICAL ASSISTANTS

- CONDON C. McCORNACK, A. B., M. D.
 GEORGE SHATTUCK WHITESIDE, M. D.
 GEO. F. KOEHLER, M. D.
 ROBERT L. GILLESPIE, M. D.

STAFF OF THE SCHOOL OF MUSIC

- IRVING M. GLEN, M. A. EUGENE
 Dean of the School of Music.
 MRS. STEPHANIE SCHUECKER EUGENE
 Instructor in Piano and Theory.

Officers of Instruction

- MRS. KATHERINE WARD POPE EUGENE
 Instructor in Singing.
 EVA I. STINSON EUGENE
 Instructor in Singing.
 Absent on leave 1907-08.
 LE ROY GESSNER EUGENE
 Instructor in Violin.
 ALBERTA CAMPBELL EUGENE
 Assistant Instructor in Piano.
 VEDA J. QUACKENBUSH EUGENE
 Assistant in Piano.
 INA WATKINS EUGENE
 Assistant in Piano.

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

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, and Carson.

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 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.

BUILDINGS AND GROUNDS

The University of Oregon is located at Eugene, at the head of the Willamette Valley, 123 miles south of Portland. Eugene is the county seat of Lane county, and has a population of about seven thousand. It 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. The University grounds are situated about one mile southeast of the center of the city. The buildings crown a grassy slope; the Willamette River flows along the border of the campus; and the 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, which was presented to the state by the citizens of Lane county, 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 departments of Latin, Greek, French, German, and 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 geological collection, and the departments of Rhetoric and American 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, and will make possible a great expansion in Mining, Metallurgy and Assaying. The upper floor for the present is used as class rooms in Philosophy and Education, 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 Civil and Electrical 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 official tests are made under the supervision of an engineer from the United States Bureau of Forestry.

The Gymnasium is a brick building well fitted with the best apparatus for indoor athletic work. The new athletic field has a four-lap track surrounding a well constructed football field. The Alumni Association of the University has recently erected a grand stand on the athletic field at a cost of \$1050.

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, the general reading room, the general reference room, a consultation room for faculty and students, and the offices of the Librarian and Cataloguer. The basement and second floor are used for class rooms.

The Girls' Dormitory, erected in 1907, will accommodate about twenty girls. It is a frame building, well heated and lighted, and comfortably fitted for living.

Collier Hall, the President's House, is situated on the part of the campus south of Thirteenth Street, and is surrounded by grounds covering nine and one-half acres.

The University operates its own electric light, gas and water plants.

A local station of the United States Weather Bureau is located on the campus.

LIBRARY

The libraries of the University contain 16,000 bound volumes, and important pamphlet sets, as those of the Early English and the Scotch Text Societies. The Dewey system of classification has been adopted, and a card catalogue enables students to make ready use of the books. The Library is a depository for all documents published by the Government at Washington, and receives a large number every year.

Special Department Libraries are being accumulated which are provided with reserve shelves in the General Library. Poole's Index and the annual library indexes have been provided, and there is a valuable collection of bound periodicals. The list of encyclopedias and strictly reference books numbers over 200 volumes.

Instructors in the University, students and resident graduates are entitled to draw books from the Library. Students may draw three volumes at a time, to be retained for three weeks, with the

privilege of one renewal. The Library is open during term time from 8:30 A. M. to 5 P. M., and on Saturday from 8:30 A. M. to 12:00 M. and has for several years been open during the morning of every day in the year except Sunday.

The University Reading Room contains a large assortment of American and foreign newspapers and periodicals. They include weekly and monthly magazines and reviews on General Literature, Sociology, Political Science, History, Economics, Chemistry, Biology, Physics, Engineering, Education, Philosophy, Psychology, Ancient Languages, French, German, etc.

During the summer of 1906 \$5,000 was spent in increasing the possessions of the library. A thousand new volumes, carefully chosen by professors in charge of all departments of study, were purchased in the United States and in Europe. A number of Poole's sets of periodicals was completed, the most important being the North American Review, commenced in 1815 and now in its 184th volume. Binding was ordered for several hundred of periodicals which are being bound in the most substantial manner known, in a bindery at Eugene. The number of subscriptions to periodicals of scientific character was largely increased. The new Library building costing \$25,000 is now in use and furnishes greatly improved opportunity for study and improvement.

MUSEUMS

Dr. Condon's Geological Collection is especially rich in fossils of Oregon, and is the largest collection of specimens of the Northwest in existence.

The Howell collection of the Flora of Oregon contains about ten thousand type specimens of the flora of the Northwest.

The Leiberg Collection, presented to the University by Mr. Leiberg in 1908, contains 15,000 sheets of specimens, collected principally from Idaho and Oregon, but comprising also some from other states. The specimens are, for the most part, duplicates of others deposited with the Government, and are extremely valuable.

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. Public School Library Lists, by Prof. Luella Clay Carson; The Mineral Resources of Oregon, by Prof. O. F. Stafford; Beowulf and Cynewulf, by Prof. I. M. Glen; Water Power on the McKenzie River and Water Power on the Santiam River, by Prof. E. H. McAlister; Tendencies in Recent Road Legislation, by Prof. F. G. Young; A General Register of the University of Oregon from 1873 to 1904, by Mr. J. A. Gamber; State Normal School Systems of the United States, by Dr. H. D. Sheldon; Some Botanical Notes from the Biological Laboratory, by Prof. A. R. Sweetser; A New Fossil Pinniped, by Prof. Thomas Condon; A Student's Geological Map of Oregon, with Notes, by Mrs. Ellen Condon McCornack; State Systems of High School Control, by H. D. Sheldon; Nature Study Leaflets 1, 2, and 3; The Condon Memorial Bulletin; The Oregon High School Debating League, by E. E. DeCou, and a General Register of the University to 1907, are among the recent numbers of the Bulletin. The Bulletins are sent free on application to the Registrar of the University.

The Oregon Weekly is published each Monday 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 two assistants. The various members of the staff are elected during the second semester of each 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.

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 three to four 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 alumnae 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.

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 Administration 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 crystalize 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 3:00 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 \$75.00 to the winner of the contest and \$25.00 to the holder of second place. The contest for 1908 will be held at the University of Washington. The University will be represented by Jesse H. Bond, of the class of 1908.

INTERCOLLEGIATE ORATORICAL ASSOCIATION

The Inter-Collegiate Oratorical Association is an organization of the following colleges and universities of Oregon: Pacific College, McMinnville College, Albany College, Pacific University, Willamette University, and the University of Oregon. An annual contest is held each year in turn at each of the colleges interested. The University of Oregon won the contest of 1908, and was represented by Bert W. Prescott, of the class of 1908.

INTERSTATE 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 for 1907 between the University of Utah and University of Oregon was held at Salt Lake City. Each university was represented by two men. The University of Oregon won.

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. H. Hayward, representing the Faculty; Mr. C. N. McArthur, Judge L. T. Harris, and Mr. G. W. Hug, representing the Alumni Association; and Mr. Gordon Moores, Mr. C. R. Zacharias, and Mr. Paul Reid, 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.

LOAN FUND

Through the generosity of Mr. William Ladd, of Portland, Mr. A. S. Roberts, of The Dalles, the class of 1904 of the Univer-

sity, and Senator R. A. Booth, of Eugene, the University now has a student loan fund of approximately \$1,000. Loans are made to deserving students at a low rate of interest, and it is very seldom that any of the fund is lying idle at the bank. During the past five years a large number of students have been assisted who could not otherwise have completed their college course.

The University hopes to establish during the present year 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, if established, will be 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 undertake 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.

GENERAL ASSEMBLY

A *General Assembly* of the University is held each Wednesday at 10:00 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 good-fellowship among the alumni." The officers for 1907-8 are: L. R. Alderman, '98, President; Mrs. Benetta Dorris Nash, '95, First Vice President; E. H. McAlister, '09, Second Vice President; A. R. Tiffany, '05, Secretary-Treasurer. Members of the Athletic Council: C. N. McArthur, '01, L. T. Harris, '93, 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.

ORGANIZATION

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 Under-

graduate Department. Candidates for admission to the Graduate School must make formal application upon blanks, furnished for the 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 Master of Arts or Master of Science must complete at least one year (thirty semester hours) of study in residence, except in cases of graduates of this University who may by special action of the Graduate Council be given permission to do one-half of the work in absentia. The work to be counted toward an advanced degree must be divided between a major sub-

ject 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, drawings, 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.

THE COLLEGE OF LITERATURE, SCIENCE, AND THE ARTS

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 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, Education, Geology, German, Greek, History, Latin, Mathematics, Philosophy, Psychology, Physics and Romance Languages.

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.

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 approximating 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. Hence the Univer-

sity departments concerned are outlining combinations of courses that will meet closely the special needs of young men aiming toward business courses in industrial and commercial fields.

ADMISSION

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 a half 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
 Ashland
 Astoria
 Athena
 Baker City
 Cottage Grove
 Crook County, Prineville
 East Portland
 Eugene
 Grants Pass
 Harney County, Burns
 Jefferson
 Klamath County, Klamath Falls
 LaGrande
 Lakeview
 Lebanon
 Marshfield
 Medford
 North Bend
 Parkplace
 Pendleton
 Portland
 Roseburg
 Salem
 Springfield
 The Dalles
 Tillamook
 Union
 Wallowa County, Enterprise
 Wheeler County, Fossil
 Woodburn

ACADEMIES

Allen Preparatory School
 Hill Military Academy
 Portland Academy
 St. Helen's Hall
 Hood River
 St. Mary's Academy

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

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.

REQUIREMENTS FOR ENTRANCE TO THE FRESHMAN CLASS

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 21, at two o'clock in Professor Carson's room, Villard Hall.

NUMBER OF UNITS REQUIRED

For full entrance to the freshman class, fifteen units will be 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 year 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.

ENTRANCE SUBJECTS

English Composition and English Classics	4	units
Algebra (Wells' Essentials)	1½	"
Geometry, Plane and Solid	1½	"
History, Greek and Roman, and Medieval with special reference to England, or American History and Constitution	2	"
Physical Geography	½ or 1	"
*Botany or Physics	1	"
||Latin	2	"
	<hr/>	
	13	units

The balance of the fifteen units must be made up from the following:

Latin	1 or 2	units
German	1 or 2	"
Botany	1	"
Physics or Chemistry	1	"
History, Modern	1	"
History, American and Constitution	1	"
Zoology	½	"
Astronomy	½	"
Geology	½	"
Physiology	½	"
Higher Arithmetic	½	"
Elementary Political Economy	½	"
Bookkeeping	½	"
Drawing, Mechanical or Free Hand	½	"
By combining any two	1	"

English.—All regular students must present four units (twenty 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,

*Physics is required for entrance to all Engineering groups.

||French or German may be substituted for Latin as an entrance requirement in the Engineering groups.

*Beginning with September, 1909, one year of Physics will be required of all students entering the University.

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 proportion, 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.

History.—Five recitations a week for two years. 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: Myers' 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 Elementh; and in Physical Geography, any standard text.

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 to two units college credit in case it was not so used.

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 insistence 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.

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 for one year. 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 for one year. Written exercises and grammar work and systematic training in German pronunciation. As much drill as possible in rapid reading of German prose and poetry.

Latin.—All students must have two years of Latin before beginning the Freshman year, except in the Engineering groups, in which two years of either French or German will be accepted in place of 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.

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 require-

ments 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.

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.

COLLEGE OF ENGINEERING

FACULTY

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

ADMISSION

The requirements for admission to the College of Engineering, are the same as those for admission to the College of Literature, Science, and the Arts (see page 40,) except that candidates may offer two years of either French, German, or Latin, and must have had Elementary Physics. Students who have not had Elementary Physics must take the subject at the University, but it will not count toward graduation.

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 four 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 complete 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, hydrog-

raphy, 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 Geodesy, Mechanics, Highway and Railway Engineering, Hydraulic and Municipal Engineering, and Structural Engineering.

MECHANICAL AND ELECTRICAL 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 School of Mines, which has been established some nine years, 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 announcement 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.

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.

The School of Education is to be considered only one portion of the state system for preparing teachers, the other portions being the state normal schools and the State Agricultural College. It does not therefore expect:

1. To prepare teachers for the primary and grammar grades. Graduates of the University who expect to teach in the elementary schools should spend some time in the practice department of the state normal schools.
2. To prepare teachers of agriculture, manual training, and domestic science. This work is done at the State Agricultural College.

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 18th and late 19th 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 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. Philosophy of education, social problems.
 5. 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 relative 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

The summer session of 1908 of the University of Oregon will begin Monday, June 22nd, and close Friday, July 31st. Students will thus have the opportunity of being present at all the exercises of Commencement week. The Baccalaureate sermon will be delivered Sunday morning, June 21st, in Villard Hall. The graduating exercises of the School of Music will be held Monday evening. The President's reception takes place Tuesday afternoon, and in the evening the annual Failing and Beekman Oratorical Contest. The exercises of Commencement Day begin at ten o'clock Wednesday morning. The Alumni Banquet takes up the afternoon, and the week concludes with the Alumni Ball in the evening. Excursion trains from Portland and other points will be run to Eugene on Commencement Day, arriving at 9:30 o'clock in the morning. It is planned to make the whole week "home coming week" and a musical festival. Professor I. M. Glen, Dean of the School of Music, will direct both the orchestra and the chorus. Large numbers of Alumni and prominent guests from all parts of the state and neighboring states will be present.

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.

FACULTY

The teachers are members of the faculty of the University.

EDUCATIONAL FACILITIES

The University library and laboratories will be open to all students. The library contains 16,000 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, Education, 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

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 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 the means to take the work as students during the regular session. A step of still greater importance is the correspondence department established last fall. 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.
 Teachers' Groups.
 Granges.
 Home makers.

METHOD

The method of work is as follows: The student who wishes to undertake the correspondence study, should notify the Registrar of the University, for the Correspondence Department, of the course or courses which he may desire, enclosing at the same time the required fee for return postage. 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 within 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.

PLAN

The following correspondence courses are at present offered:

English Classics (State High School Course.)
 Shakespeare.
 Pedagogy.
 Elementary Algebra.
 Higher Algebra.
 Geometry.
 Trigonometry.

These courses are prepared by members of the University Faculty, and each course represents a definite amount of work equivalent to the credit it is given at the University, either entrance or college.

EXPENSE

All instruction, including examinations, is free. The correspondent pays the cost of correspondence and bears the expense of the books necessary for the work. Each student is required to make with the Registrar of the University at the time of enrollment a deposit of one dollar for each course taken to cover the cost of the return postage. Those pursuing the studies in any course in a Group or Study Club can save in the cost by sending and having returned, all papers in one package.

The University does not undertake to furnish the books needed in any of the courses.

CREDIT

Students who complete the work of each course, including a satisfactory examination paper, shall be entitled to credit as follows: English Classics, 1 unit; Elementary Algebra, 1½ units; Plane Geometry, 1 unit; Solid Geometry, ½ unit; Trigonometry, 1½ college credits; Advanced Algebra, 1½ college credits; Shakespeare, 3 college credits; Pedagogy, 3 college credits.

GENERAL INFORMATION

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 acknowledgment 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".

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.

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

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 must be made up within one year.

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 heads of the University departments that the courses offered are the equivalents of those given by the University. All applications for advance standing 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 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 credits rank 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 MEDALS

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 2nd. 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. Murch, 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.

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, Lacombe.
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.

THE BENNETT PRIZE

The Bennet 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 1907 was won by Wilson C. Nicholas, '10, of Portland, 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 1908 was won by Jesse H. Bond of the class of 1908.

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 \$120.00 for the first and second years of attendance. The half scholarship carries a reduction of \$60.00 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 ALUMNÆ SCHOLARSHIP

The Oregon Branch of Collegiate Alumnæ offers to the young women of Oregon a scholarship of \$200.00 at the University of Oregon for 1908-09.

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.

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 Univer-

sity, is \$10.00. There is also a student-body tax of \$5.00 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 \$10.00 is charged for the first degree taken, and \$10.00 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	126.00	162.00	216.00
Sundries	34.00	73.00	169.00
	<hr/>	<hr/>	<hr/>
	\$175.00	\$250.00	\$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 Dormitory, approximately \$4.00 per week; books from \$5.00 to \$12.00 per year. Students often rent rooms and do light house-keeping, thus reducing the cost of living to a very low point.

SELF SUPPORT

Seventy per cent of the men attending the University during 1907-8 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 7,000 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.

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 \$5.00 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 \$2.00 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 \$2.00 to \$4.00.

CHEMISTRY

The deposit for each course is \$10.00. 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, \$10.00.

Analytical Chemistry, \$15.00 to \$20.00.

Organic Chemistry, \$15.00 to \$20.00.

Physical Chemistry, \$10.

CIVIL ENGINEERING

Deposit for Testing Laboratory or Topographical Surveying, \$2.50.

Key deposit for Mechanical Drawing, \$1.00; refunded at the end of the course on the return of the key.

ELECTRICAL ENGINEERING

Deposit \$3.00 for each course. The usual expense is, for

Courses 1 and 2, \$2.00 a semester.

Courses 3, 4, 5, 6, and 7, \$3.00 a semester.

Courses 24, 25, and 41, \$2.00 a semester.

Courses 23 and 40, \$1.00 a semester.

MINING AND METALLURGY

The deposit for each laboratory course is \$10.00. 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 \$5.00 is required for each course each semester. The usual expense for Courses 1 and 3 is \$2.50 per semester.

DEPARTMENTS OF INSTRUCTION

COLLEGE OF LITERATURE, SCIENCE AND THE ARTS, AND SCHOOL OF EDUCATION

Announcement of Courses for 1908-09

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, and 8.

Students proposing to study Pharmacy should elect Zoology 1, Botany 1, 2, 3, 4, 5, 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, habit and medicinal properties. Also a few powdered drugs and their adulterants. Prerequisites, Courses 1, 2, and 3. (Not to be given in 1908-09.) *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. *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. (Not given in 1908-09.)

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.

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 mammalian anatomy with the dissection of a typical mammal, followed by the study of Human Osteology. 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.

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.

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. (Not given in 1908-09.)

Four hours, first semester.

7. *Physiology*. Three lectures and one laboratory period. Digestion, Metabolism, Dietetics, Excretion, and Animal Heat. Prerequisites, Courses 3, 4, and 5, Organic Chemistry and at least a year of Physics. (Not given in 1908-09.)

Four hours, first semester.

8. *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. (Not given in 1908-09.)

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.

Two hours, both semesters.

EQUIPMENT

The Biological Department is thoroughly equipped for work. It has a large lecture room and operating room, combined, and a large, well-lighted laboratory. The equipment of the department includes among other things twenty-six compound microscopes, with low and high power objectives, including one-twelfth homogeneous immersion lens, camera lucidas; instruments for microscopic measurements; microtome, imbedding baths, incubators, digestion oven. Fick's spring manometer, Marey's tambours, kymograph, sphygmograph, induction coil and battery, time marker and clock, centrifuge with tubes and hæmatokrit, etc.

It has also a series of skulls and skeletons illustrating structure of different mammals; birds and reptiles; articulated and disarticulated human skeletons; many human skulls, disarticulated, sectional and foetal.

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.

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 Ziegler'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 of segmentation, etc., etc.

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.

The laboratory is supplied with a large aquarium for the preservation of specimens, and both laboratory and lecture room are lighted by electricity and furnished with gas from the plant of the University. Constant additions are being made to the apparatus and collections.

LABORATORY FEES IN BOTANY AND ZOOLOGY

A deposit of \$5.00 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 \$2.00 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 \$2.00 to \$4.00.

CHEMISTRY

Professor Stafford
Assistant Professor Shinn

Ten rooms in McClure Hall are at the disposal of this department. They are well equipped with apparatus and appliances of the latest and most approved forms, so that the work undertaken in this subject can be carried on efficiently. The lecture room is commodious and admirably adapted to its purpose. There are three large laboratories, each having a complement of tables, lockers, gas, compressed air, water, waste, hoods, hydrogen sulphide connections, water-baths, drying ovens, electric terminals, balances, and other accessories.

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. The general laboratory is a well-lighted room, containing one hundred individual lockers, each supplied with gas, water, and a very complete outfit of chemicals and apparatus. The room is equipped with a bank of hoods from which the air is continuously exhausted by an electrically driven Sturtevant fan. In the hoods are to be found steam and water baths, gas, water, waste, hydrogen sulphide cocks, etc., while elsewhere about the room are electric terminals for power, aspirators, rapid filtering apparatus, blast lamps, drying ovens, scales, and in general whatever other appliances may be necessary for the exemplification of laboratory practice of the highest order. Six balances for the use of students in this course are in a room immediately adjacent. Lectures on Monday, Tuesday, and Wednesday at 11; laboratory periods 1 to 4, Thursday or Friday.

Four hours, both semesters.

3. *Analytical Chemistry*.—A laboratory course embracing a rapid survey of the systematic qualitative analysis of the common binary inorganic compounds, accompanied by the following determinations in gravimetric quantitative analysis: the chlorine, iron, and sulphate radicals in chemically pure compounds; the commonly occurring constituents of dolomite; the phosphate radical in apatite; and lead in an impure galena. In addition to this will be the preparation of standard normal acid, alkali and bichromate solutions, together with an assigned exercise involving the use of each; also one lecture or recitation per week at an hour to be arranged. The above will constitute the minimum requirement of the course which must be completed before credit can be given. 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 products, 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 store room 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 redeemed 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, \$10.00; Analytical Chemistry, \$15.00 to \$20.00; Organic Chemistry, \$15.00 to \$20.00. 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

Professor Young
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. 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 phases 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 prin-

ciples 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, both semesters.

13. *Money, Credit, and Banking.*—The principles of Economics are applied to modern monetary systems with the view of developing policies of improvement.

Two hours, first semester.

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 Thought.*—A survey of the leading sociological writers, and a synthesis of their systems.

Three hours, both semesters.

21. *The Problems of Democracy*, as they are defined in the city. *Two hours, first semester.*
22. *Psychological Sociology*.—The reciprocal relations between psychology and sociology are traced. *Two hours, both semesters.*

POLITICS

1. *Political Institutions of the United States*.—A general study of the American system of politics in its local, state, and federal organs, their relation to each other and the political forces they give expression to. *Two hours, first semester.*
2. *Political Institutions of Europe*.—A comparative study of the leading states of Europe, giving special emphasis to the development and working of the English Constitution and to the present trend of constitution making. *Three hours, second semester.*
3. *Municipal Government in the United States and in Europe*. *Two hours, first semester.*
4. *State Administration*.—A study of local and state administrative systems of the United States. *Two hours, second semester.*
5. *Jurisprudence*.—Analysis of the fundamental concepts of the science of law, tracing their development. *Two hours, first semester.*
6. *Roman Law*.—Its history and spirit. *Two hours, second semester.*
7. *History of English and American Law*.—A study of legal institutions in connection with social and political development. *Two hours, first semester.*
11. *History of Political Thought*.—Development of a political philosophy from the Greeks to the present time, and its connection with political history. *Two hours, first semester.*
12. *Philosophy of the State*.—A critical study of contemporary political thought. *Two hours, second semester.*
13. *International Law*.—An inquiry into the nature, sources, and sanctions of international law, and an outline study of its growth, with emphasis upon some of the leading international questions of today.

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 twenty 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 Slater
Miss Burgess

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 characteristics 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. Miss Burgess. *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 Slater. *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 Slater.

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 class-room and outside; and (2) the preparation of six themes accompanied by outlines. Text-book: Genung's The Working Principles of Rhetoric. Professor Carson, and Miss Slater. *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 Slater.

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-book: 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 Slater.

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.

AMERICAN LITERATURE

14. *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 tak-

ing Course 1 in Modern English Literature or Course 1 in Beginnings of English Literature. Miss Slater.

Two hours, both semesters.

15. *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.

16. *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. Not offered in 1908-09. Professor Carson.

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

18. *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.

19. *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.

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 1908-09.

23. *Modern English Grammar.*—A course for teachers of English. Open to students who have taken Courses 2 and 3. Miss Slater.

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 1908-09.

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.*

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 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

1. *Regular Freshman Course*.—Fundamentals, 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. 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 Cooper
Miss Williams

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, De Vere. 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, with an examination of the critical literature which has gathered around them. Miss Cooper.
Three hours, first semester.

11. *Shakespeare.*—The tragedies, and the critical literature upon them. Miss Cooper.
Three hours, second semester.

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 make the novel a social force. Dickens, Charles Reade, Charles Kingsley, Macdonald, and other nineteenth century writers will be considered, also existing tendencies in the work of George Moore, Bernard Shaw, Mrs. Humphrey Ward, H. G. Wells, etc. Professor Howe.

Three hours, both semesters.

(The three courses numbered 16 will be given in successive years. For 1907-08 the course was 16c.)

17. *Living English Writers.*—The Poets. Swinburne, Meredith, Watson, Yeats, Stephen Phillips, Davidson, and others will be read rather fully, with—as most of them are dramatists—a preliminary survey of the drama of the last eighty years, as written by Lytton, Reade, Robertson, and others. Miss Cooper.

Two hours, first semester.

18. *Living English Writers.*—Prose. The essay, drama, and novel will be examined, in an endeavor to ascertain the main currents in the literature of today. Miss Cooper.

Two hours, second semester.

19. *The Relation of English to Contemporary European Literature,* during the last twenty-five years. The Drama. The rela-

tion of Ibsen, Mæterlinck, and others to Shaw, Jones, Pinero, and other English dramatists of today. Professor Howe.

Two hours, first semester.

20. *The Relation of English to Contemporary European Literature,* during the last twenty-five years. The Novel. The Russian school. Tolstoi, Turgeniev, Dostoievsky, and their influence upon English writers. The meaning and influence of the French school. 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.

GEOLOGY

Professor Terrill

1. *Introduction to Geology.*—A course in dynamical, structural, and physiographical geology, including several field trips.

Three hours, first semester.

2. *Historical Geology.*—A continuation of Course 1. The lectures are given in the Condon Museum, which is invaluable to a study of the geological history of Oregon. Field trips are especially helpful in connection with the study of the Cenozoic rocks.

3. *Economic Geology.*—A study of the nature, occurrence, and economic uses of mineral substances of commercial value. The genesis of ore-deposits is given special emphasis. Must be preceded by Courses 1 and 2.

Three hours, second semester.

4. *Mineralogy.*—(See Mining.)

5. *Petrology.*—(See Mining.)

6. *Field Work.*—Study of the areal and structural geology of a portion of the region adjacent to the University. The results of this study to be recorded on topographic maps and diagrammatic cross sections prepared by the students. Must be preceded by Courses 1, 3, and 4, and Civil Engineering 3 and 4.

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.

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.

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: Joynes-Meissner's German Grammar; German Composition; Trans-

lation 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'Arabiatta*; Volkmann's *Kleine Geschichten*; Mærchen und Erzählungen; 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 conversation (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 *Høher 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*; Goethe'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) Goethe's *Egmont*; Torquato Tasso's *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 Schøneheit*; *Der Stumme Ratsherr*, *Das Spielmanns-kind*; 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 *Jøern Uhl*, etc. *Three hours, both semesters.*

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*, etc. *Three hours, both semesters.*

6. *German Poetry*.—Goethe's *Poems*; Schiller's *Ballads*; Uh-

land'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, both semesters.

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 Richl's Kulturgeschichtliche Novellen; von Sybel's Kleine Historische Schriften; Freytag's Bilder aus der Deutschen Vergangenheit; Seiler, Die Heimat der Indogermanen, Schiller's Geschichte des dreissigjährigen 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 täglichen Leben; Brewer's Naturlehre; Mueller's die Electricischen Maschinen; Helmholtz's Ueber Goethe'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.

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*.—Only open to 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 Litteraturegeschichte 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.

17. *Germanic Mythology*.—Texts: F. Kaufmann, Eugen Mogk, and Grimm.

One hour, one semester.

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*.—Micheis Mittelhochdeutsche Grammatik, 1900; Henrici, Proben der Dichtungen des Mittelalters, Berlin, 1898; Selections from Nibelungenlied; Walther von der Vogelweide; Parzival; Lexer; Mittelhochdeutsches Taschen-Wörterbuch.

21. *Old High German*.—Braune's Althochdeutsche Grammatik, and the same author's Althochdeutsches Lesebuch (4th Edition); Muellenhoff and Scherer's Denkmäler Deutscher Poesie 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 Literature; Franke's Social Forces in German Literature are used as text-books. 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 Pho-

netics (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 text-book 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*.—Selection 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.

Two 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 Wörterbuch* (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, Echagaray, 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. Not given in 1908-09.

Two hours, both semesters.

2. *Advanced Italian*.—The classic period of Italian Literature. Readings from Dante, Boccaccio and Petrarchi. Courses 1 and 2 are given in alternate years. *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*.—Thucydides, 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-books: Hick's Manual of Greek Historical inscriptions.
One hour, second semester.

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 correlation 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 on 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 COURSE

(One, two, or three of these will be given in 1908-09.)

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 1908-09 including the four against Catiline and the *Actio Prima* against Verres.

Text-books: Long and Frazer's *Sallust* (Bell); Wilkins' *Catiline Orations of Cicero* (Macmillan); King's *Select Orations of Cicero* (Clarendon Press.)

2. *Ovid's Metamorphoses*, Books III and VIII; 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.

Text books: Keene's Book III of Ovid's *Metamorphoses* (Macmillan) and Summers' edition of Book VIII (Pitt Press); Papillon 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 Amicitia*.—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: Reid's *Cicero De Amicitia* (Pitt Press); 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 XXI; 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 XXI for 1908-09. Occasional passages will be cited from Ovid's *Tristia*.

Text-books: Kirkland's *Satires and Epistles of Horace* (Sanborn); Dimsdale's *Livy*, Books XXI and XXII (Pitt Press); 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: Reid's *Pro Balbo* (Pitt Press); Ramsay's *Pro Cluentio* (Clarendon Press); Freese's *Pro Murena* (Macmillan).

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 Poetica, 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 Tusculan Disputations and the best portions of Lucretius.

Text-books: Rockwood's Cicero's Tusculan Disputations, Book I, and Dream of Scipio (Ginn); 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 22 will be given in 1908-09.

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 Poetarum 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 1908-09; offered in 1909-10.

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 Apokolocytosis 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 1908-09; offered in 1909-10.

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); Summers' 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. Annæ Senecæ Opera*, Vol. III (Teubner); Cowan's *Pliny's Letters*, Books I and II (Macmillan's Classical Series); Naber's *Frontonis Epistolæ* (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 these required occasionally.

Text-books: Bond and Walpole's *Gallic War* (Macmillan's Classical Texts); 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.

COURSES 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. Prerequisite, 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 Rey'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 nebulae, 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 black-board, three feet in diameter, black-board 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

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 Descartes 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.

5. *Practical Problems in Ethics*.—Open to freshmen. President Campbell.

One hour, both semesters.

11. *The Evolutionary Idea*, with particular attention to the Synthetic philosophy of Herbert Spencer. Not given in 1908-09.
Three hours, both semesters.
12. *Philosophy of Aristotle*.—Open to juniors and seniors. Not given in 1908-09. President Campbell.
Two hours, both semesters.
13. *German Philosophy*.—The critical philosophy of Immanuel Kant. Open only to students who have had Courses 1 and 2, or their equivalent. Not given in 1908-09.
Three hours, first semester.
14. *German Philosophy*.—Hegel. Open only to students who have had Courses 12 and 13, or their equivalent. Not given in 1908-09.
Three 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. In all courses, lectures, the syllabi of which are placed in the hands of the students, serve as an introduction and outline of the subject. 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. *Growth of Education Doctrine* in the eighteenth and nineteenth centuries. A careful intensive study of Locke, Rousseau, Pestalozzi, Fröbel, Herbart, and Herbert Spencer.
Three hours, first semester.
2. *Philosophy of Education and Educational Criticism*.—Howe, Rosecrans, O'Shea, Huxley, Search, Olliot Brooker, Briggs, Wilson, King. Treats of educational aims and values.
Three hours, second semester.

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.
5. *Growth and Administration of National Systems in Europe*, with special attention to secondary higher education.
Three hours, first semester.
6. *Growth and Administration of the National Systems of America*, with special attention to secondary and higher education.
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 1908-09.
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 1908-09.
Two hours, second semester.
9. *Education Club*.—Reading of contemporary literature and discussion of current topics.
One hour, both semesters.
10. *Recent Movements in Religious and Moral Education*.—A review of the work of the Religious Education Association and the reconstruction of the Sunday School and other institutions for religious education on pedagogical lines. Not given in 1908-09.
One hour, first semester.
11. *Secondary Education, Its Aim*.—European systems of secondary education, history, organization, administration of secondary education in America, training of secondary teachers. School management, applied to 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 the Present Problems in Education.*—For students who want a general survey of education and who are not majoring in the department.

PHYSICAL EDUCATION 8

Mr. Hayward

Physical education is treated as a part of college work. Two years in the gymnasium classes are required. The University gymnasium is fitted with the more general gymnastic apparatus.

The main hall is forty by eighty-five feet, with a twenty-five foot ceiling. On the same floor is the office of the director, and a room for anthropometry; there is also a gallery for spectators in the west end. The annex contains the dressing rooms and baths.

Students rent a private locker for a fee of one dollar per year. A deposit of fifty cents is required for the key, to be paid to the Steward of the University.

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.

GYMNASIUM FEE

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

PHYSICS

Professor Boynton

Mr. Jackson

Courses 1 and 1a are offered for the coming year only. They are intended primarily to strengthen the preparation of engineering students for Courses 2 and 3, but are open to all students at the beginning of either semester. These courses will be withdrawn at the close of the year 1908-09.

Course 2 is intended primarily for students of engineering, and should be taken by them in the sophomore year. Courses 4, 5, 6, and 7 together form a two-years' cycle; the work includes experimental lectures and recitations on the basis of a suitable text-book. The courses of this cycle are open to all students who have at least sophomore standing, and are intended primarily for non-technical students desiring a general acquaintance with the subject; they are of substantially the same grade as, and alternative with, Course 2. Credit will not be given for both.

Course 3 should be elected as laboratory work to accompany Course 2, and is advised in connection with Courses 4, 5, 6, and 7. Additional laboratory may be taken as Course 18.

Prospective teachers of science wishing the recommendation of the department should take at least 16 semester hours of work in the department, including courses 3, 8, and 9, and either Course 2 or the complete cycle of Courses 4, 5, 6, and 7.

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 \$5.00 is required for each laboratory course each semester. The usual expense for Courses 1 and 3 is \$2.50 per semester.

GENERAL COURSES

1. *Elementary Physics*.—A general non-mathematical course for those who have had no previous work in Physics. Open to all qualified students at the beginning of each semester. Three recitations and one laboratory period. Not given after 1908-09.
Four hours, both semesters.
- 1a. *Elementary Physics*.—A rapid review covering the ground of Course 1, for those who have had a year of high school Physics. Offered to engineering students and others as a preparation for Courses 2 and 3. One recitation and one laboratory period. Not given after 1908-09.
Two hours, both semesters.
2. *General Physics*.—Open to those who have completed Elementary Physics and Trigonometry. This course and the following are required in the sophomore year in the Engineering Courses, and are recommended to intending teachers of science.
Four hours, both semesters.
3. *Physical Measurements*.—A general laboratory course designed to accompany Course 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 1908-09.
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 1908-09.
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.
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. *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 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 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 der Waal's 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 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. Pre-

quisites, Physics 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 Pulej; 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 equip-

ment for electrical measurements, including resistances and galvanometers from the Leeds and Northrup Co.; ammeters and voltmeters from the American 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

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: Tichener's Primer of Psychology, Thorndike's Psychology. 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's 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.*

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 development 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 ex-

periments, 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; telegraph 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

Announcement of Courses for 1908-09

CIVIL ENGINEERING

Professor McAlister

Mr. 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 DESCRIPTIVE GEOMETRY

1. *Mechanical Drawing*.—Use and care of instruments; plain lettering; elementary projections of points, lines, surfaces and solids, isometric and oblique projections; simple working drawings; shading; section lining; blue prints. Six hours in drafting room. Freshman year. Prerequisite for Engineering students.

Two hours, both semesters.

1a. *Freehand 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.

2. *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.

SURVEYING

3. *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.

4. *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 3 and Calculus. Required of students in Civil and Mining Engineering.

Three hours, both semesters.

4a. *Astronomical Practice*.—More extended practice than can be given in Course 4, in determining time, latitude, longitude, and azimuth. Additional methods are also developed. Three hours field practice. Open to those who have had Course 4.

One hour, either or both semesters.

STRUCTURAL ENGINEERING

5. *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 struc-

tures 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 2. Prerequisite for all Engineering students.

Two hours, second semester.

6. *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.

7. *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 5, and who have had or are taking Analytical Mechanics. Required of Civil Engineering students.

Three hours, second semester.

8. *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, 2 and 6. Required of Civil Engineering students.

Three hours, first semester.

8a. *Reinforced Concrete.*—Theory, computation and design of reinforced concrete beams, columns, slabs, arches, retaining walls, etc. Open to students who have had Course 8.

Three hours, second semester.

9. *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 6 and 7 and Shopwork. Required of Civil Engineering students.

Three hours, first semester.

10. *Advanced Bridge Design.*—Courses 7 and 9 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 7 and 9. *Five hours, second semester.*

11. *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 6 and 8.

Two hours, second semester.

HYDRAULIC AND MUNICIPAL ENGINEERING

12. *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 water wheels and turbines. Open to students who have had Calculus, Analytical Mechanics, and Course 3. Required of Civil Engineering students.

Four hours, first semester.

13. *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 12.

Five hours, second semester.

14. *Elements of Water Supply Design.*—Course 13 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 12.

Two hours, second semester.

15. *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 12.

Five hours, second semester.

16. *Elements of Sewer Design.*—Course 15 abbreviated. Lec-

tures, drafting and computations; in all six hours per week. Open to students who have had Course 12. *Two hours, second semester.*

17. *Irrigation Engineering.*—Hydrography, including stream measurements; rainfall and run-off; evaporations, absorption, and seepage; duty of water; sub-surface water sources, artesian wells. Canals and canal works; surveys, alignment, slope and cross sections 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 12, 4, 6 and 8. *Five hours, second semester.*

RAILWAY AND HIGHWAY ENGINEERING

18. *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 3. Required of Civil Engineering students. *Five hours, first semester.*

19. *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 18. *Two hours, second semester.*

20. *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 3, 8, and 12. *Two hours, second semester.*

LABORATORY FEES

Second Semester

6. Testing Laboratory	\$2.50
4. Topographic Surveying	2.50

Key deposit for Mechanical Drawing, \$1.00; refunded at the end of the course on the return of the key.

ELECTRICAL AND MECHANICAL ENGINEERING

Professor Dearborn

Mr. Converse

Mr. Bond

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 Design 21, Electrical Laboratory 24, 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 25, Thermodynamics, Hydraulics, Strength of Materials, 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, wood-turning. 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 1907-08.) Moulding, core-making. 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, second 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. Dis-

- cussion 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. *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, first semester.
 16. *Electric Lighting*.—A study of the various electric illuminants and their adaptations to exterior and interior lighting. Open to students of junior standing.
One hour, one semester.
 17. *Electric Power Transmission*.—A study of the transformation, transmission, and distribution of electric energy. Prerequisites, Courses 13 and 14.
Two hours, second semester.
 18. *Telegraphy and Telephony*.—Fundamental principles of electric signalling, with illustrations of modern commercial practice. Prerequisite, Course 12 or 13.
One hour, one semester.
 19. *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.
 21. *Electrical Design*.—Direct current. Calculation and design of electromagnets and direct current dynamos. Three hours a week in drafting room. Prerequisite, Course 13.
One hour, first semester.
 22. *Electrical Design*.—Alternating current. Drawings and specifications of alternating current machinery. Prerequisite, Course 14.
One hour, second semester.
 23. *Electrical Laboratory*.—Industrial. A brief course given in connection with Course 12. Three hours in the laboratory.
One hour, second semester.
 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.

Two hours, second semester.

26. *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.

Three hours, first semester, and two hours, second semester.

32. *Steam Boilers*.—Introduction in heat and steam, types of steam boilers, boiler details, boiler fittings, automatic furnaces and mechanical stokers, care and management, combustion, firing and draught, economic combustion of coal, boiler installation, boiler feeding and feed-water problems, boiler trials, principles of boiler design. Prerequisite, Course 2 in Mathematics.

Three hours, one semester.

33. *Steam Machinery*.—A detailed description of the construction, operation, care and management, installation, and principles of design of the following: Steam engines, simple and compound; governors, valve gears, condensers, engine management, engine installation, steam engine testing, steam turbines, indicators. Prerequisite, Course 2 in Mathematics.

Three hours, one semester.

34. *Thermodynamics*.—The mechanical theory of heat and its application to steam, gas, and hot-air engines; refrigerating machines and air compressors. 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.

One hour, one semester.

36. *Steam Power Plant Design*.—Including selection and installation of equipment.

One hour, one 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.

Three hours, one semester.

38. a. *Internal Combustion Motors*.—The leading types of stationary, automobile, and marine engines are discussed as to their construction, care, management, operation, including a discussion of producer gas systems.

Two hours, two semesters.

38. b. *Stationary Gas Engines*.—A discussion of the leading types, designed for students who desire a shorter course than 38a.

One hour, one semester.

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, second semester.

SHOP AND LABORATORY FEES

Deposit \$3.00 for each course. The usual expense is, for Courses 1 and 2, two dollars a semester.

Courses 3, 4, 5, 6, and 7, three dollars a semester.

Courses 24, 25, and 41, two dollars a semester.

Courses 23 and 40, one dollar a semester.

MINING AND METALLURGY

Professor Terrill

1. *Crystallography and Blow-pipe Analysis*.—A study of the blow-pipe tests and crystal forms which are of importance in determining minerals. *Three hours, first semester.*

2. *Determinative Mineralogy*.—Study of the nature and classification of minerals, in which special emphasis is laid on the recognition of minerals by means of their physical properties and crystal forms. Must be preceded by Course 1.

Three hours, second semester.

3. *Petrology*.—An introduction to the nature and classification of rocks, with special reference to the methods by which they may be determined in the field or mine. Lectures, laboratory, and field work. Must be preceded by Courses 1 and 2.

Three hours, second semester.

4. *Assaying*.—The fire assay of the most important types of gold, silver, and lead ores, the assay of bullion, and laboratory amalgamation and concentration tests. Further practice in assaying is given students in checking the results of their experiments in the metallurgical laboratory. Must be preceded by Course 1, and Chemistry 1 and 2. Laboratory fee, \$15.

Three hours, first semester.

10. *Metallurgy—Lead and Copper*.—An introductory course dealing with the nature of metals, alloys, ores, fuels, furnaces, and smelting and leaching operations; followed by the metallurgy of lead and copper. Must be preceded by Courses 1 and 2, and Chemistry 1, 2, and 4.

Three hours, first semester.

11. *Metallurgy—Gold and Silver*.—A course dealing with ore dressing; and with the amalgamation, cyanidation, and chlorination of gold ores, and the amalgamation, etc., of silver ores. Must be preceded by Course 10.

Three hours, second semester.

12. *Metallurgical Laboratory*.—Determination of method by which the values can most profitably be extracted from a given ore, investigation of special metallurgical problems, etc., especial emphasis being given to cyanide tests.

Two to five hours, one semester.

13. *Cyanide*.—A substitute course for Course 12, which includes lectures, assigned readings, and laboratory tests on the cyanid-

ation of ores. Treats of the cyanide process in more detail than is possible in Course 11. *Two to four hours, one semester.*

14. *Mining*.—Lectures, assigned reading, and quizzes on mining operations, including prospecting, development, methods of working, timbering, shaft sinking, hoisting, drainage, and ventilation. Open only to Engineering students with full junior standing.

Three hours, second semester.

15. *Mine Surveying*.—A course designed to prepare the student for the duties of a U. S. Deputy Mineral Surveyor. It includes mining law and actual practice in the methods used in underground surveying, and the working up of field notes with the necessary calculations, maps, etc. Must be preceded by Surveying 3 and 4.

Three hours, one semester.

16. *Mine Examination and Reports*.—Study of the methods in use in mine sampling, and the points which must be covered by various engineer's reports. Open to seniors in Mining Engineering.

One hour, first semester.

17. *Thesis*.—Every senior will be expected to present a thesis at the close of the senior year. This should be in the form of a report upon some mine which he has examined, a report upon the method by which some ore can be most advantageously worked, with specifications and estimates for a plant for working it, or a report embodying the results of some special investigation in economic geology, metallurgy, or mining engineering.

Three hours, second semester.

LABORATORY FEES

The deposit for each laboratory course is \$10.00. The assaying course usually costs an additional \$5.00 for fuel.

THE SCHOOL OF LAW

FACULTY

The Faculty of each school or college consists of the President of the University and the resident professors, assistant professors, lecturers and instructors giving instruction.

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 twenty-fourth session opens Monday, September 21, 1908.

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, instead of two years as heretofore.

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 instruction 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 Frazer.

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. Mr. McCamant.

SECOND YEAR**FIRST TERM**

Real Property.—Tiedeman on Real Property. General Laws of Oregon. Thirty Lectures. Mr. Veazie.

SECOND TERM

Torts.—Bigelow on Torts. General Laws of Oregon. Twenty Lectures. Dean Gantenbein.

Negotiable Instruments.—Bellinger and Cotton's Codes of Oregon. Sections 4403-4594, inclusive. Ten Lectures. Mr. Platt.

THIRD TERM

Equity Jurisprudence.—Fetter or Bispham on Equity. Bellinger and Cotton's Codes of Oregon, Title VI. Twenty Lectures. Judge Sears

Corporations.—Bellinger and Cotton's Codes of Oregon, Title XLI. 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 Hailey.

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

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George on Partnership, First Edition	3.50
Tiffany on Sales, First Edition	3.50
Hale on Bailments and Carriers, First Edition	3.50
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	\$24.50

SECOND YEAR

Tiedeman on Real Property, Enlarged Edition	\$ 5.00
Bigelow on Torts, Seventh Edition	4.00
Fetter on Equity, First Edition	3.50
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	\$12.50

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
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	\$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.

DEGREES

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, 1908.

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 Bldg., Portland, Oregon.

THE SCHOOL OF MEDICINE

FACULTY

The Faculty of each school or college consists of the President of the University and the resident professors, assistant professors, and lecturers, giving instruction.

ORGANIZATION

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.

For full particulars as to proper credit to be given for equivalents for the first year course, 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 University. Information as to credit for previous courses of lectures taken in other approved medical colleges, may be found under the head of "Requirements for Admission."

The opening lecture of the twenty-second regular annual session will be delivered at 9 a. m. Monday, September 14, 1908. 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 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 completed 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. Vincent's new 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 6 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.

These hospitals, with the county hospital, are rich in clinical material of all kinds, and afford opportunities for clinical work and instruction unequalled 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 students in methods of examination for purposes of diagnosis of both medical and surgical cases and the use of appropriate instruments used for that purpose. A "Clinic Conference" in both Medicine and Surgery has 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. E. F. Tucker, Gynecology; Prof. Geo. F. Kœhler, General Medicine; Dr. Geo. S. Whiteside, Genito-Urinary, Skin and Syphilis; Prof. R. Nunn, Eye, Ear, Nose and Throat; Dr. Otis B. Wright, General Medicine; Dr. C. J. McCusker, General Surgery.

Arrangements have been perfected for the obstetrical clinics. 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 mid-wifery, 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 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 instruments added. The laboratory courses will include a large amount of practical work in histology, pathology, bacteriology, physiology, materia medica, therapeutics, and electro-therapeutics.

A very extended course in histology, pathology and bacteriology is given. 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, new apparatus has been added and laboratory work will be done under the personal supervision of the professor of physiology and Dr. C. J. McCusker. In therapeutics, under Dr. G. O. Pelgram.

Much attention is given to the "Quiz" or recitation feature of the didactic lectures. There is a system of marking for recitations throughout the session which is 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 opportunity to assist in operations and for practice in minor

surgery, bandaging, etc. All the usual surgical operations will be demonstrated on the cadaver.

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. Wright and the out-patient staff. Prof. Geo. F. Wilson will deliver a clinical course upon Operative Surgery, and will give special attention to clinics on dislocations, fractures and fracture apparatus. Dr. Wright 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 outlines, 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. Geary upon Physical Diagnosis. Profs. Bell and Mackenzie, and Drs. J. A. Gilbert, E. P. Geary 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 Dr. Geo. F. Koehler and others.

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. Wiley 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 Thornton, 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 the 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. G. O. Pelgram. Dietetics will be treated by Dr. Taylor.

BACTERIOLOGY

Dr. Ralph C. Matson will deliver practical lectures with laboratory work on Bacteriology to fourth 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.

MICROSCOPY, HISTOLOGY AND PATHOLOGY.

Dr. Ray W. Matson will deliver a practical course on the use of the microscope and histology, and Dr. R. C. Yenney on 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.

To illustrate the lectures on Histology and Pathology a course will be given on section cutting, staining, mounting, etc. Dr. Ray Matson will demonstrate the technique of this work. Dr. Ostrander will assist in pathological demonstrations.

Histology will be considered during the first year. Pathology by second and third year students. This course will be thoroughly practical and will be taught both by lectures and laboratory methods. 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 charts, diagrams, specimens, clinical work, etc., in the hospital maternity wards, etc. All the principal obstetric operations will be demonstrated on the manikin in presence of the class, and members of the graduating class will be required to perform certain 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 fourth year. 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.

OPHTHALMOLOGY, OTOTOLOGY, 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. From the first hour of life the infant requires special study. Its diet and environment are of paramount importance. The diseases of later childhood and the great question of schooling and school hygiene will be dealt with.

The surgery of infancy and childhood will receive its share of attention. Clinics by Prof. Bell at Baby Home and by Prof. Labbe at out-patient department.

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. Geary will give special instruction on this important subject, giving prominence to topographical examinations, exemplary sounds, etc., using clinical material for demonstrations. Clinics at county 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.

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 Syndes-
 mology, 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.
 Special Pathology with Laboratory Work.
 Pediatrics.
 Dermatology.
 Gynecology.
 Genito-Urinary Diseases.
 Physical Diagnosis.

Ophthalmology and Otology.
 Obstetrics.
 Medical Jurisprudence.
 Nervous Diseases.
 Clinics.
 Examinations in Principles of Medicine; Principles of Surgery;
 Pathology (final); Gynecology; Physical Diagnosis; Obstetrics;
 Dermatology; Diseases of Genito-Urinary Organs; Ophthalmology
 and Otology.

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.
 Bacteriology, with laboratory work.
 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):

Anatomy—For study, Gray; for reference, Morris, Cuning-
 ham.

Physiology—For study, Howell; for reference, Hall, Kirke.

Chemistry—For study Withaus, Hill, Purdy Pract. Urinalysis,
 etc.; for reference, Bartley, Sadtler and Trimble.

Materia Medica—For study, White and Wilcox; for reference,
 Butler, Shoemaker, Sollman.

Surgery—For study, Wharton & Curtis; for reference, Inter-
 national Text Book, Senn's Principles of Surgery, Da Costa.

Theory and Practice—For study, Anders; for reference, Clif-
 ford Allbutt's System-Nothnagel's System Osler.

Diagnosis—For study, Cabot; for reference, Da Costa.

Obstetrics—For study, Hirst; for reference, Williams.

Diseases of Children—For study, Cotton; for reference, Holt, Koplik.

Gynecology—For study, Dudley; for reference, Montgomery, Hirst, Ashton, Penrose.

Ophthalmology—For study, Swanzy; for reference, Noyes, Buck, Fuchs.

Otology Laryngology—For study, Bishop's Dis. of Ear, Nose and Throat.

Histology—For study, Piersol; for reference, Stohr, Ferguson.

Pathology—For study, Stengel; for reference, Mallory and Wright.

Dermatology—For study, Stelwagon; for reference, Kaposi, Crocker, Hyde & Montgomery.

Toxicology—For study, Taylor.

Orthopaedic Surgery—For study, Sayre.

Nervous Diseases and Insanity—For study, Church and Peterson; for reference, Gowers, Gordinier's Anatomy of Nervous System, Krafft-Ebing.

Genito-Urinary Diseases—For study, Keyes, Lydston; for reference, White & Marten, Taylor.

Medical Jurisprudence—For study, F. W. Draper; for reference, A. N. Taylor, Wharton and Stille.

Hygiene—For study, Bergey.

Bacteriology—For study, Muir & Ritchie; for reference, Abbott, Levey & Klempner, McFarland.

Electro-Therapeutics—For study, A. D. Rockwell; for reference, Medical and Surgical Electricity.

Dietetics—For study, Food and Diet, Williams; for reference, Friedenwald, Thompson.

HOSPITAL APPOINTMENTS

Arrangements have been perfected by which the college has in its gift appointments each year of house surgeons, to the Good Samaritan Hospital and St. Vincent's Hospital, 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 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

SAYLOR MEDAL—Carl Julius Hoffman, M. D.

ANATOMY MEDAL—Homer Brown Haile.

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 eight-year course in primary and intermediate grades, and for graduation not less than four years of study embracing not less than two year (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 18 points must be as follows: Mathematics (4 points); English (4 points); History (2 points); Language (2 must be Latin), 4 points; Science (taken from physics, chemistry, botany, zoology), 4 points.

B. Optional (to 12 points), i. e., 12 points may be elected from following: English, 2 points; History, 6 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.)

(d) Certificates from reputable instructors recognized by the superintendents hereinafter to be mentioned 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, medical or otherwise, 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.—This college will honor the official credentials presented by students from other colleges having at least the standard requirements maintained by members of the Association of American Medical Colleges, excepting for the fourth year of their course, but no student will be admitted to advanced standing without a communication from the dean of 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, 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 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, when, if they pass, they will receive the degree.

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 accommodations 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 \$3.00 and those in the *histological, pathological, or bacteriological* laboratory \$5.00 for breakage. *These fees must be paid before the student will be permitted to do any laboratory work.* With the exception of \$2.00 for each laboratory course, these fees are returnable if no breakage is charged. Dissecting material \$3.00 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
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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

All students who attend after their senior year here, per session, \$50.

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 Prof. 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 STUDENTS

Students will matriculate at the office of the Dean, Prof. 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.

THE SCHOOL OF MUSIC

FACULTY

The Faculty of each school or college consists of the President of the University, and the resident professors, assistant professors, and lecturers, giving instruction.

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 full 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 Bases, given and original.

THIRD YEAR

Secondary Sevenths, Ninth, Altered and Mixed Chorus—Modulation—Harmonizing of Melodies and Bases (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.

STUDENTS ENROLLED

GRADUATE SCHOOL

Cooper, Mabel,	Independence
Holt, Theodore Pickel,	Eugene
Jackson, Andrew Warren,	Bandon
McMurren, Adelle Adaire,	Baker City
Reid, Charles Roy	Eugene
Robinson, Kirkman K.,	Wilderville
Swift, Lon L.,	Baker City
Williams, Angeline,	Oregon City
Wold, Emma M.,	Eugene

COLLEGE OF LITERATURE, SCIENCE, AND THE ARTS, AND COLLEGE OF ENGINEERING

Allen, Adah Ardys,	Eugene
Allen, Eva Vivian	Eugene
Angell, Herbert A.,	Portland
Applegate, Leroy Gilbert,	Klamath Falls
Arnsperger, Olen,	Pendleton
Ayers, Jesse C.,	Eugene
Bacon, Jessie L.,	Tolo
Bailey, Thos. Chambers,	Hillsboro
Baker, Edith A.,	Eugene
Balderee, Ruth Edna,	Eugene
Barker, William Jr.,	Vancouver, B. C.
Barnard, Ethel Frances,	Eugene
Bartlett, Neta,	Portland
Bartrum, Claude de Forrest,	Roseburg
Barzee, Mac,	Portland
Beach, Agnes,	Portland
Beach, Helen,	Portland
Beach, Varnel Douglas Cole,	Portland
Bean, Ormond R.,	Salem
Beane, Florence M.,	Portland
Beatty, Ben E.,	Portland

Beebe, Allie Beatrice,	Eugene
Beebe, Cornelius,	Eugene
Beebe, Edith L.,	Eugene
Belat, Emma Lenore,	The Dalles
Bell, Cecelia Smith,	Portland
Bell, Jessie Murray,	Portland
Belshaw, Mary,	Eugene
Bergman, Annie W.,	Astoria
Berry, Walter Matho,	Astoria
Bertsch, Ernest J.,	Springfield
Bond, Jesse H.,	Florence
Bond, Paul G.,	Florence
Booth, Floyd W.,	Eugene
Bradley, Hazel Harriet,	Portland
Breeding, Frank Owen,	Portland
Briedwell, Glenn LeSueur,	Portland
Bristow, Greta Elizabeth,	Eugene
Bristow, William Wilshire,	Eugene
Brooke, Lloyd Weseley,	Portland
Brown, Hazel,	Portland
Brownell, Philander,	Gardiner
Bullard, Ivan Lester,	Menlo, Washington
Burke, Thomas Anthony,	Baker City
Bryant, Anna Louise,	San Francisco, Cal.
Cake, William M.,	Portland
Calkins, Jessie M.,	Eugene
Cameron, Cora Columbia,	White Salmon, Wash.
Cameron, Ethel Edna,	White Salmon, Wash.
Camp, Ella Barrett,	Portland
Campbell, Alberta Winifred,	Monmouth
Caufield, Clara M.,	Oregon City
Caufield, Edna Jane,	Oregon City
Charman, N. R.,	Chico, Cal.
Chase, Jessie,	Portland
Chessman, Merle Rowland,	Portland
Childers, Earl,	Milton
Clarke, Dudley R.,	Portland
Clarke, Herbert F.,	Portland
Clifford, Harold Haseltine,	Baker City
Cockerline, Winifred M.,	Eugene
Cochran, Lilian A.,	Hepner
Coffey, Ada Boone,	Boswell
Coleman, Curtis H.,	Salem

Collier, Ethan Alexis,	Eugene
Collier, Percival Meredith,	Eugene
Conger, Ben,	Eugene
Cooper, Frances,	Independence
Cooper, J. Shelby,	Independence
Cooper, Virgil,	Baker City
Cornwall, Levines Corwin,	Moscow, Idaho
Covell, Constance,	Portland
Criteser, Mary L.,	Eugene
Cronise, Ralph Reynolds,	Salem
Cross, Juliet,	Oregon City
Cunning, Chauncey,	Baker City
Cunning, James,	Baker City
Curriu, Hugh Perkins,	Cottage Grove
Curtis, Charles C.,	Eugene
Curtis, Francis Day,	Portland
Dalzell, Harold A.,	Portland
Davidson, Samuel R.,	Hood River
Davies, Henry Richard,	Ashland
Davis, Elsie,	Eugene
Davis, Pauline,	Corvallis
Dean, Charles Frederick,	Grants Pass
DeBar, Mary,	Eugene
Deva, Satya,	Lahore, India
Devereaux, Harry E.,	Eugene
Deyoe, Ella M.,	Eugene
Dickson, John,	Pendleton
Dill, William A.,	Eugene
Dodson, Ralph M.,	Baker City
Donnell, Olive S.,	Portland
Dorris, Bertha,	Lewiston, Idaho
Dow, Elsie Marion,	Eugene
Downing, Claude Clarence,	Ashland
Downs, Chester A.,	Portland
Drain, Moda,	Drain
Drew, Howard Wilber,	Tillamook
Duniway, Ruth,	Portland
Dunn, Claire,	Eugene
Dunston, Carolyn,	Portland
Dunton, F. E.,	Liberal
Dunton, Willis Lewis,	Liberal
Eastham, Alta,	Eugene
Eastham, Gerald,	Oswego

Eaton, Stanley Dorman,	Union
Eaton, Walter McCrum,	Eugene
Elliott, Elizabeth E.,	Salem
Elliott, Sibyl,	Salem
Elton, Albert J.,	The Dalles
Erskine, Chas. Wesley,	Coburg
Espy, Cecil J.,	Oysterville, Washington
Eubanks, Clarence, M.,	Portland
Evans, Ethel Lena,	Eugene
Fariss, James Robert,	Eugene
Fariss, Jessie,	Eugene
Farrar, Gladys A.,	Salem
Farrington, Austin,	Eugene
Ferdine, Blanche Ellaine,	Grants Pass
Ferguson, Elizabeth,	Medford
Foshay, Mary,	Albany
Frazer, Eva,	Eugene
Fullerton, Kate,	Roseburg
Furuset, Oscar,	Eugene
Gallogly, Elizabeth,	Eugene
Gardner, Curtis,	Clayoquot, B. C.
Geary, Arthur M.,	Portland
Germanus, Harold J.,	Portland
Gilkey, Dean,	Eugene
Goff, Laura Adele,	Hood River
Goodall, Byron,	Salem
Goodman, Dean Trueman,	Pendleton
Gray, Rebecca June,	Eugene
Green, Ethel Gladys,	Eugene
Gressman, William Albert,	Summerville
Grout, Benjamin W.,	LaGrande
Hadley, Winifred,	Eugene
Hair, Mozelle,	Grants Pass
Halley, Earl G.,	Baker City
Hamble, Chas. B.,	Eugene
Hamble, Madge Norwood,	Eugene
Hansen, Ruth,	Portland
Hardin, Chas. Elmer,	Vancouver, Wash.
Harding, Nieta Natalie,	Oregon City
Harrold, Howard,	Newberg
Harris, Ernest R.,	Oak Grove
Harris, Loren E.,	Eugene
Hathaway, Dick A.,	Portland

Hawthorne, Pearl Virginia,	Eugene
Hayes, Dean Harold,	Portland
Hayes, Susan Elizabeth,	Baker City
Healy, Gale S.,	Portland
Henderson, Kathleen Ermine,	Eugene
Hendricks, Robert Hamilton,	Fossil
Henkel, Ferdinand,	Portland
Hickson, Robert E.,	Portland
Hildeburn, Harry J.,	Roseburg
Hill, Mable,	Junction City
Hobbs, Grace,	Eugene
Hoisington, Louis Benjamin,	Monmouth
Holmes, Gertrude,	Portland
Holmes, Vivian Anita,	Portland
Hoover, Thomas Benton,	Fossil
Hovis, Victor M.,	Alfalfa, Wash.
Houston, Harvey Allen,	Missoula, Mont.
Howard, Mary,	Washington, D. C.
Huff, Pearl,	LaGrande
Huggins, William Barber,	Portland
Hughes, Helena,	Portland
Humphrey, Eda Claire,	Eugene
Humphrey, Hazel Beatrice,	Eugene
Hunt, Harold Everett,	Condon
Huntington, Benjamin Jr.,	Yoncalla
Hurd, Conifred F.,	Eugene
Hurd, Leland C.,	Eugene
Hurd, Marean G.,	Eugene
Hurd, Virginia Meta,	Eugene
Hurlburt, Eugene Fayette,	Eugene
Hurley, Jessie Lorena,	Portland
Huston, Ella Blanche,	Portland
Huston, Oliver B.,	Portland
Irvin, Lilla,	Aurora
Irvin, William George,	Walterville
Jamison, Harper N.,	Portland
Johnson, Ethel,	Eugene
Johnson, Jonathan Lewis,	Eugene
Johnson, Pearl,	Eugene
Johnson, Sydney Stanford,	Parkplace
Jones, Ernest E.,	Caldwell, Idaho
Junkin, B. Florence,	Portland
Keenan, Arthur B.,	Biggs

Kelly, Frances Elizabeth,	Eugene
Kelly, Winifred C.,	Eugene
Kelly, Kate O'Connor,	Eugene
Kennedy, Guy Rochelle,	Chico, Cal.
Kenny, Helen Genevieve,	Leona
Kerr, Arthur Frederic,	Eugene
Kerr, Ray,	Eugene
Kestley, Grover J.,	Springfield
Kestley, John J.,	Springfield
Kidder, Bessie M.,	Roseburg
Kilpatrick, Earl,	LaGrande
Kiltz, William C.,	Vancouver, B. C.
Kincaid, Webster Lockwood,	Eugene
Koyl, Charles W.,	Eugene
Kuykendall, John Eberle,	Eugene
Kuykendall, Mabel,	Eugene
La Brie, Grace,	Portland
Lackey, Homer Melvin,	Eugene
Lane, Florence Harriet,	Portland
Leasure, Daphna Evelyn,	Portland
LeMasters, W. Willis,	Monmouth
Lewis, Donald Lyman,	Monmouth
Lilly, Jennie,	Portland
Lincoln, Irene,	Prosser, Wash.
Lingren, William Henry,	Marshfield
Loosley, Cary V.,	Fort Klamath
Lowell, Harry,	Eugene
Lowell, William E.,	Pendleton
Lyans, Cecil Kenyon,	Eugene
Lyans, Roscoe C.,	Eugene
MacKenzie, Gladys May,	Portland
Mackenzie, Ronald Seaforth,	Portland
Magladry, Grace E.,	Donna
Manville, Ira Albert,	Eugene
Marshall, Earl Andrew,	Portland
Marsters, Ansel Carlos,	Roseburg
May, Samuel,	Portland
Mayer, Lloyd Othmar,	Portland
Mayo, Earl E.,	Portland
McAnnulty, Frank Henry,	Oregon City
McArthur, Joseph Wilber,	Amboy, Wash.
McCallum, Effie Belle,	Eugene
McCarty, R. Dell,	Pendleton

McConnell, Howard,	Eugene
McEwen, Ralph B.,	Athena
McIntire, Walter E.,	Ashland
McKenzie, Robert Bruce,	Athena
McNair, Hazel Mae	Tillamook
McNeill, Nellie F.,	Medford
McPherson, Lela Treado,	Springfield
Meier, William Martin,	Portland
Merryman, Harold C.,	Portland
Miller, Lena Inez,	Albany
Miller, Leslie Phelps,	Yoncalla
Miller, Lischen M.,	Eugene
Moon, Harry W.,	Drain
Moore, Arthur R.,	Buffalo, N. Y.
Moore, Charles Rutherford,	Eugene
Moore, Harvard C.,	Portland
Moore, Roy,	Drain
Moore, Walter J.,	Eugene
Moores, Gordon Chamberlain,	Salem
Morgan, Delbert Loyd,	Eugene
Morgan, Ellsworth A.,	Gold Beach
Mott, Lloyd Howe,	Salem
Mott, William B.,	Salem
Moullen, Fred C.,	Eugene
Mount, Frank R.,	Olympia, Wash.
Muhr, Emily,	Eugene
Mumma, Golda Emma,	Irving
Myers, Leon LeRoy,	Eugene
Neal, Carl B.,	Buena Vista
Neal, William Bartle,	Eugene
Needham, Oliver B.,	Eugene
Neill, James K.,	LaGrande
Nelson, Frances Maxwell,	Albany
Nelson, Robert H.,	Albany
Nicholas, Wilson Carey,	Portland
Noon, William A.,	Portland
Oberteuffer, Robert K.,	Portland
Oberteuffer, Sara Frances,	Portland
Ogden, Melvin Pool,	Portland
Ohrt, Frederick,	Honolulu
Olson, David Eugene,	Eugene
Otten, George H.,	Portland
Ozasa, Sabro,	Japan

Page, A. H.,	Moro
Paine, Elmer D. Witt,	Eugene
Parks, L. C.,	Junction City
Patterson, Henry R.,	Portland
Penland, John R.,	Eugene
Perkins, Alonzo A.,	Salem
Perry, Jennie May,	Pendleton
Pickard, Lloyd R.,	Eugene
Pinkham, Louis Hampden, Jr.,	Portland
Pinkham, Cornelia Ann,	Portland
Platts, Edwin,	Eugene
Powers, Alfred,	Parkplace
Poysky, George J.,	Astoria
Pratt, Ruby L.,	Eugene
Prescott, Bert W.,	Baker City
Prescott, Edith Elizabeth,	Baker City
Prosser, Jessie A. E.,	Eugene
Prosser, Lila Carrie,	Eugene
Prosser, William Oscar,	Eugene
Ramp, Floyd C.,	Brooks
Rankin, Merwin,	Portland
Rankin, Ormond,	Portland
Rast, John V.,	Roseburg
Ray, Ward L.,	Pittsburg, Pa.
Reid, Paul W.,	Portland
Rhodes, Henrietta Frieda,	Eugene
Richardson, Joel H.,	LaGrande
Riddell, George Xenophon,	The Dalles
Risley, Olivia,	Roseburg
Roberts, Earle Kemp,	Los Angeles
Roberts, Nathaniel E.,	Springfield
Robinson, C. C.,	Grants Pass
Robinson, E. Helene,	Portland
Robinson, Sam,	Philbrook, Minn.
Robison, C. W.,	Oregon City
Rolfe, Ruth Janette,	Eugene
Rounds, Harold Judson,	Portland
Rueter, William,	Portland
Sage, Estella Mae,	Portland
Sanderson, Vera,	Eugene
Scaiefe, Ethel M.,	Eugene
Schafer, Charles A.,	Portland

Schumacher, George Herbert,	Baker City
Scibird, Steven F.,	Union
Scott, Glenn Edmiston,	Pendleton
Scott, Mary E.,	Portland
Scullen, Alfred W.,	Eugene
Scullen, Herman A.,	Eugene
Sechrist, Essie E.,	Arleta
Service, Maude L.,	Baker City
Sharpe, Ethel E.,	Portland
Shaver, Isolene,	Portland
Sherk, Everett H.,	Portland
Shirk, Harrison K.,	Eugene
Showers, Loretta,	Portland
Sievers, Charles Theodore,	Parkplace
Simington, Irene,	Astoria
Slater, Harvey M.,	Salem
Smith, Edgar W.,	Pendleton
Smith, William E.,	Jefferson
Snow, Charles MacCormac,	Portland
Stackpole, Harry M.,	Ketchikan, Alaska
Stanfield, Jarvina Lucy,	Pendleton
Starbuck, Morris,	Eugene
Steele, Clarence A.,	Portland
Steelquist, Reuben U.,	Portland
Steiber, Leland L.,	Fossil
Steiber, Mary L.,	Fossil
Stevenson, Agnes,	Klamath Falls
Stevenson, Donald McCornack,	Klamath Falls
Stillman, Ruth Adeline,	Eugene
Stivers, Elijah V.,	Eugene
Stoddard, Alice Erna,	Westport
Stoddard, Clarence Louis,	Westport
Storie, Elmer Henry,	Pendleton
Stowe, Marion Eugenia,	Salem
St. Pierre, Ralph K.,	Salem
Strong, Earl F.,	Roseburg
Struck, Ferdinand Theodore,	Hood River
Sullivan, F. Francis,	Oregon City
Sullivan, George E.,	Oregon City
Svarverud, Van,	Eugene
Swart, Harry A.,	Portland
Sweek, Calvin L.,	Monument
Swift, Frank H.,	Pleasant Hill

Talbert, George,	Milton
Taylor, Charles Melville,	Vancouver, Wash.
Taylor, William Ray,	The Dalles
Templeton, Ira Lloyd,	Halsey
Terry, Roy K.,	Portland
Tiffany, Mabel Addaline,	Eugene
Townsend, Thomas Robison,	Roseburg
Travillion, Claire Edmund,	Baker City
Trew, Arthur Sherbourn,	West Farmington, Ohio
Van Dusen, Arthur,	Astoria
Van Duyn, Agnes Belle,	Coburg
Van Scoy, Paul,	Eugene
Van Valzah, Shannon Laurie,	Springfield
Van Waters, Miriam,	Portland
Vintin, Edward L.,	Portland
Vogel, Rachel,	Pendleton
Voigt, Victor W.,	Portland
Walker, Ray M.,	Independence
Walsh, Francis,	Portland
Washburne, Helen Georgia,	Springfield
Watson, E. Morgan,	Eugene
Watson, Mary Elizabeth,	Eugene
Wattenburg, Wilfred,	Fossil
Welch, Edith, Lindley,	Portland
Wetterborg, Herman A.,	Portland
Whealdon, Clarence Leroy,	Shedds
White, George McDaniel,	Portland
Whittlesey, Frederick James,	Portland
Wilbur, Helena Pearl,	Union
Wilcox, Cecile,	Independence
Wilkins, Lucia Winona,	Eugene
Williams, B. Burke,	Eugene
Williams, Benjamin Harrison,	Eugene
Williams, William G.,	Eugene
Williamson, Naomi,	LaGrande
Wire, Wesley M.,	Eugene
Wood, J. LeRoy,	Nome, Alaska
Wood, Raymond H.,	Eugene
Wood, William H.,	Astoria
Woodcock, Edith Marion,	Portland
Young, Charlotte,	Eugene
Young, Frances Packard,	Eugene
Young, Stanley Paul,	Astoria

Zacharias, Charles Roy,	Westley, Cal.
Zimmerman, Edna Ottmar,	Pendleton

SCHOOL OF LAW**FIRST YEAR**

Alsbaugh, Agustus M.,	Barton
Applegren, Carl A.,	Portland
Barrett, Edward D.,	Portland
Bennett, James A.,	Portland
Black, Richard E.,	Portland
Boys, John E.,	Portland
Briscoe, James W.,	Portland
Brown, Enoch H.,	Eugene
Buckingham, Carrie,	Portland
Bump, Daniel D.,	Forest Grove
Burriss, Harry M.,	Portland
Clark, Carrye,	Portland
Clark, Malcolm H.,	Portland
Cleland, Paul E.,	Portland
Diech, Richard	Portland
Dewart, Herbert R.,	Portland
Downes, John R.,	Portland
Dugan, William W.,	Portland
Dyke, Walter P.,	Hillsboro
Eaton, Clarence L.,	Oregon City
Gammil, George W.,	Portland
Giles, Claude H.,	Portland
Hai, May P.,	Portland
Hannon, John P.,	Portland
Hobbs, Fern,	Portland
Hogue, Charles E.,	Portland
Hoskins, Cecil J.,	Newberg
How, Wong Back,	Canton, China
Howard, Victor S.,	Portland
Hughes, John R.,	Portland
Johns, Claude M.,	Baker City
Johnson, George A.,	Portland
Johnson, Samuel M.,	Wallace, Idaho
Jones, Joseph H.,	Portland
Joyce, John M.,	Portland
Kodama, Hatsuo,	Hirashima, Japan
Korell, Franklin F.,	Portland

Landis, Norman R.,	Portland
Lewis, Arthur H.,	Portland
Louderback, Kenneth J.,	Orient
Mathison, Enoch E.,	Portland
McCredie, Hugh,	Vancouver, Wash.
McDonald, Peter A.,	Portland
McLaughlin, Charles P.,	Portland
Miller, A. C.,	Portland
Moy, W. B.,	Portland
Neilson, John C.,	Portland
Parkison, Harry J.,	Portland
Peters, Richard F.,	Portland
Raven, Arthur C.,	Portland
Redmond, Maynard,	Portland
Reed, Earl E.,	Portland
Robertson, Grant A.,	Portland
Saltmarsh, Henry R.,	Portland
Saunders, Lewis L.,	Portland
Schultz, Adolph,	Portland
Shapirer, Leo,	Portland
Shenefield, Wellington N.,	Portland
Streiff, Albert,	Hillsdale
Tobin, Edward P.,	Lents
Vial, Paul J.,	Portland
Wilkinson, John,	Vancouver, Wash.
Wirtz, Willard H.,	Portland

SECOND YEAR

Anderson, Alfred A.,	Portland
Barbour, James R.,	Portland
Behrman, Leon W.,	Portland
Bryant, John C.,	Portland
Buckman, Wilda,	Portland
Christensen, C. D.,	Portland
Conklin, Willard M.,	Portland
D'Arcy, James F.,	Portland
Down, Robert H.,	Portland
Fliedner, W. Louis,	Portland
Foley, John C.,	Portland
Hicks, Claude E.,	Portland
Humphreys, Lester W.,	Portland
Johnson, George C.,	Portland
Kato, Shosaburo,	Iida, Japan

Mahone, Luther D.,	Portland
Mathews, David P.,	Oregon City
O'Conner, Mrs. Mattie,	Portland
Orton, Arthur W.,	Portland
Parsons, Miller V.,	Portland
Persons, Alva W.,	Portland
Reimer, William C.,	Portland
Rogers, Alton,	Portland
Sheahan, William E. P.,	Portland
Sheppard, Chester A.,	Portland
Smith, Lawrence B.,	Portland
Smith, Elmer E.,	Portland
Steiner, Frederick,	Portland
Salway, Fred R.,	Portland
Slovary, Emil P.,	Portland
Smith, Stanley C. E.,	Portland
Stevens, Orville A.,	Portland
Takahashi, M.,	Hirashima City, Japan
Taylor, Ira,	Portland
Woerndle, Joseph,	Portland

SCHOOL OF MEDICINE

Adams, Frederick,	Roseburg
Adkin, Otis Franklin,	Portland
Anderson, Edgar Harris,	Portland
Anderson, Gilbert Emanuel,	Medford
Babcock, Helen B.,	Seattle, Wash.
Barendrick, William Harrison,	Portland
Basailon, James Marr,	Portland
Baumbough, Charles William,	Portland
Bevis, Earl M.,	Condon
Borland, Walter Allen,	Tacoma
Brooke, Banner Raymond,	Portland
Brown, Elwin,	Tacoma, Wash.
Burdon, Minnie,	Anacortes, Wash.
Bursell, A.,	Central Point
Cahill, Roscoe William,	Portland
Carl, George G.,	Pendleton
Cathey, George A.,	Corvallis
Cathey, Collins Flint,	Corvallis
Caufield, Henry Augustus, Jr.,	Seattle, Wash.
Charleston, Vernon Claude,	Portland
Cobert, Thompson,	Portland

Cowling, Harry Glenmore,	Three Rivers, Mich.
Darby, James Allen,	Pomeroy, Wash.
Davis, Ralph Ferrein,	Portland
Dinsmore, John B.,	Eugene
Eastland, Herbert C.,	Eugene
Reagles, Harry,	Seattle, Wash.
Forrest, Merle Verne,	McMinnville
Fox, T. J.,	Marshfield
Gale, Arthur,	Baker City
Gambee, Edwin E.,	Santa Clara, Cal.
Gaunt, George G.,	Clemons, Iowa
Ghormley, James Carlos,	Portland
Gillis, James Burton,	Walla Walla, Wash.
Graffis, Robert St. Clair,	Portland
Graham, James Patterson,	Portland
Haile, Homer Brown,	Pomeroy, Wash.
Hendershott, H. M.,	Portland
Holt, R.,	Portland
Hugh, Louie,	China
Jessop, Donald Henry,	Portland
Johnson, Leslie Lloyd,	Portland
Jones, Marion J.,	Portland
Kaiser, W. F.,	Portland
Kane, J. Edward,	Pennsylvania
Kerron, Seth M.,	Portland
Kyde, S. M.,	Spokane, Wash.
Lane, Edson Lincoln,	Portland
Leep, Roland Vivian,	Myrtle Point
Leeston-Smith, Fred M.,	Portland
Lieser, Herbert C.,	Vancouver, Wash.
Lieser, Miles M.,	Vancouver, Wash.
Liscum, C.,	Portland
Loeding, Charles Franklin,	Milwaukee, Ore.
Manion, Lorne,	Portland
McCauley, J. Frank,	Portland
McCullom, J. W.,	Hamilton, Ont.
McCully, Claude B.,	Milton
Miller, William J.,	Eugene
Morrow, E. V.,	Portland
Mount, Albert,	Silverton, Ore.
Murphy, Joseph Thomas,	Woodburn
Northey, Edna Bishop,	Huntington
Patton, William T.,	Portland

Pratt, F. S.,	Seattle, Wash.
Purcell, Michael Edward,	Couer D'Alene, Idaho
Reith, John,	Walla Walla, Wash.
Rahal, Carl,	Tacoma, Wash.
Regan, Anna M.,	Portland
Riggs, George E.,	Vancouver, Wash.
Rosenthal, Samuel E.,	Portland
Rue, H. A.,	St. Johns
Russell, Homer E.,	Seattle, Wash.
Rybke, Charles Leicester,	Portland
Sargeant, Albert,	Chehalis
Shoot, Harry Everett,	Kalama, Wash.
Simonson, Christian Johanes,	Kendrick, Idaho
Smith, B. E.,	Portland
Smith, Lloyd Fisher,	Chicago, Ill.
Spurrier, Ravena Lot,	Portland
Stafrin, Christian Emil,	Dallas
Streit, Ernest Hamilton,	Portland
Tyler, Leatha,	Ashland
Via, Guy Forrest,	Forest Grove
Waffle, E. B.,	Pendleton
Whiteaker, John Charles,	Eugene
Wilcox, Claire C.,	Goldendale, Wash.
Yielding, Arthur T.,	Pittsburg, Pa.
Zeebuyth, C. B.,	Montesano, Wash.

SCHOOL OF MUSIC**PIANO**

Anderson, Ella,	Ashland
Anderson, Irene,	Eugene
Anderson, Truman,	Eugene
Aubrey, Emma F.,	Irving
Baker, Alice,	Eugene
Bean, Hazel,	Eugene
Belat, Emma,	The Dalles
Calkins, Jeannette,	Eugene
Calkins, Madge,	Eugene
Campbell, Jack,	Eugene
Carroll, Cleone,	Eugene
Cherry, Mrs. Harry,	Eugene
Cherry, Mrs. Robert,	Eugene
Covell, Constance,	Portland
Davis, Hettie,	Eugene

Davis, Pauline,	Corvallis
Devereaux, Esther,	Eugene
Driver, Lena,	Tangent
Farriss, Jessie,	Eugene
Fisher, Mrs. E. L.,	Eugene
Frazer, Eva,	Eugene
Furuset, Elmer,	Eugene
Garrett, Lyda,	Eugene
Gibson, Earl,	Eugene
Gibson, Ethel,	Eugene
Gibson, Mae,	Eugene
Gillette, Albert,	Eugene
Gillette, Mamie,	Eugene
Goff, Adele,	Hood River
Hales, Beatrice,	Eugene
Hales, Virginia,	Eugene
Hendershott, Emo,	Eugene
Hendricks, R. H.,	Fossil
Herron, Vera M.,	Cottage Grove
Hills, Esther,	Eugene
Holt, Vesta,	Eugene
Huff, Hazel,	Eugene
Jensen, Josephine,	Eugene
Johnson, Miss,	Cottage Grove
Kelly, Jean,	Eugene
Kenney, Helen,	Leona
Koppe, Nellie,	Eugene
Lackey, Emma,	Eugene
Lindley, Pearl,	Eugene
Lounsbury, Leatha,	Eugene
MacKenzie, Gladys,	Portland
Manerud, Mabel,	Eugene
McCallum, Effie,	Eugene
McNair, Hazel,	Tillamook
Moorhead, Josie,	Junction City
Morse, Mrs. W. P.,	Eugene
Mulkey, Veda,	Eugene
Mumma, Golda,	Irving
Naylor, Nellie,	Eugene
Peterson, Hilda,	Eugene
Pinkerton, Mrs. A.,	Eugene
Prosser, Lila,	Eugene
Puckert, Lena,	Eugene

Purdy, Harriet,	Eugene
Quackenbush, Veda,	Eugene
Ruble, Eva,	Eugene
Ruble, Ruth,	Eugene
Runyon, Florence,	Eugene
Schwarzchild, Minnie,	Eugene
Service, Maud,	Baker City
Seymour, Stella,	Eugene
Sharpe, Ethel,	Portland
Shumate, Kathleen,	Eugene
Simington, Irene,	Astoria
Slater, Bertha,	Eugene
Stafford, Esther,	Eugene
Sterner, Hallie,	Eugene
Sterner, Lucile,	Eugene
Stillman, Ruth, A.,	Eugene
Stowe, Marion,	Salem
Strawn, Mrs. Steve,	Eugene
Tiffany, Grace,	Eugene
Washburne, Helen,	Springfield
Watkins, Ina,	Eugene
Watson, Katherine,	Eugene
Wheeler, Dorothy,	Eugene
Wheeler, Glen,	Eugene
White, Nita,	Eugene
White, Velma,	Eugene
Wilkins, Juanita,	Eugene
Wilkins, Warren,	Eugene
Williams, Marjory,	Eugene
Williams, Melba,	Eugene
Williamson, Naomi,	La Grande
Woodcock, Edith,	Portland
Yarnell, Edna,	Eugene
Zimmerman, Darl,	Eugene
Zimmerman, Erma,	Eugene

VOICE

Anderson, Ella,	Ashland
Barnard, Ethel Frances,	Eugene
Bassett, Mrs. G.,	Springfield
Brown, Hazel,	Portland
Burke, Thomas,	Baker City
Campbell, Alberta,	Monmouth

Cochran, Lilian,	Portland
Davidson, S. R.,	Portland
Dillard, Mrs. W. B.,	Eugene
Dixon, Mrs. A. C.,	Eugene
Dobie, Ella C.,	Portland
Dodson, Ralph,	Baker City
Downs, C. A.,	Portland
Dunn, Lucile,	Eugene
Gallooly, Elizabeth,	Eugene
Germanus, Harold,	Portland
Hayes, Susan,	Baker City
Hobbs, Grace,	Eugene
Humphrey, Hazel,	Eugene
Huff, Hazel,	Eugene
Irish, Madge,	Eugene
Johnson, Miss,	Eugene
Lombard, Miss,	Eugene
MacKenzie, Gladys,	Portland
Mackenzie, R. S.,	Portland
McClain, Carl,	Eugene
McClain, Marion,	Eugene
Neal, Una,	Eugene
Neal, William,	Eugene
Needham, Oliver,	Eugene
Prescott, Bert,	Baker City
Prescott, Edith,	Baker City
Prosser, Lila,	Eugene
Ramp, Floyd,	Roseburg
Ransom, Georgine,	Eugene
Renshaw, Lulu,	Eugene
Robinson, Helene,	Eugene
Scott, Mearle,	Creswell
Shaver, Isolene,	Portland
Simington, Irene,	Astoria
Steelquist, R. U.,	Portland
Stickles, F. G.,	Eugene
Travis, Ella,	Eugene
Travis, Mrs. Lee,	Eugene
White, G. M.,	Independence
Wilber, Pearl,	Union
Williams, Carl,	Dallas
Wold, Cora,	Eugene
Woodruff, Mrs. J. W.,	Eugene

Yoran, Louise,	Eugene
Young, Marjory,	Eugene
Zimmerman, Edna,	Pendleton

THEORY

Davidson, S. R.,	Portland
Herron, Vera,	Cottage Grove
Jensen, Josephine,	Eugene
Johnson, Floy,	Cottage Grove
Kenney, Helen,	Leona
Moorhead, Josie,	Junction City
Mulkey, Veda,	Eugene
Ogden, Melvin P.,	Portland

VIOLIN

Abrams, Lucile,	Eugene
Campbell, Alberta,	Monmouth
DeBar, Mary,	Eugene
Lyans, C. K.,	Eugene
Pratt, Ruby,	Eugene
Roach, Buford,	Eugene
Roach, Mary,	Eugene
Schwarzschild, Minnie,	Eugene
Taylor, Miss,	Eugene

SUMMARY OF OFFICERS AND INSTRUCTORS

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