

Twenty-first
Annual Catalogue
of the
University of Oregon.



1896-1897.

MDCCCXCVII.

EUGENE.
B. H. MILLER, Printer.
1897.

CALENDAR, 1897-1898.

Sept. 20, 1897,	Session Begins.
June 23, 1898,	Session Ends.
Sept. 14 , 1897, 20	First Semester Begins.
Friday, Feb. 11, 1898,	First Semester Ends.
Monday, Feb. 14, 1898,	Second Semester Begins.
June 23, 1898,	Second Semester Ends.
Sunday, June 19, 1898,	Baccalaureate Sermon.
Monday, June 20, 7:30 p. m.,	Graduating Exercises in Music.
Tuesday, June 21, 10 a. m.,	Field Day.
Tuesday, June 21, 3 p. m.,	President's Reception.
Tuesday, June 21, 7:30 p. m.,	Reunion.
Wednesday, June 22,	Class Day.
Wednesday, June 22, 3 p. m.,	Alumni Meeting.
Wednesday, June 22, 7:30 p. m.,	Address before the University.
Thursday, June 23,	Annual Meeting, Board of Regents.
Thursday, June 23, 10 a. m.,	Commencement Exercises.

The dates for the winter and
Exhibition will be fixed by the F

ses and the Junior

BOARD OF REGENTS.

NAME AND RESIDENCE.	TERM EXPIRES.
HON. T. G. HENDRICKS, Eugene.....	April 1, 1897.
HON. L. L. MCARTHUR, Portland.....	April 1, 1899.
DR. S. HAMILTON, Roseburg.....	April 1, 1901.
HON. C. C. BEEKMAN, Jacksonville.....	April 1, 1903.
HON. HENRY FAILING, Portland.....	April 1, 1903.
HON. A. G. HOVEY, Eugene.....	April 1, 1905.
HON. A. BUSH, Salem.....	April 1, 1905.
HON. CHARLES HILTON, The Dalles.....	April 1, 1905.
HON. S. H. FRIENDLY, Eugene.....	April 1, 1907.

OFFICERS OF THE BOARD.

HON. HENRY FAILING.....	President.
HON. A. G. HOVEY.....	Treasurer.
HON. JOSHUA J. WALTON, Eugene.....	Secretary.

EXECUTIVE COMMITTEE.

T. G. HENDRICKS,	A. G. HOVEY,	S. H. FRIENDLY.
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FOUNDATION, MANAGEMENT AND SUPPORT.

The University of Oregon, by an act of the State Legislature, was founded and located at Eugene in 1872. Regular instruction of students began in 1876.

The management of the university is entrusted to a Board of Regents, appointed for a term of twelve years by the Governor of the state, and confirmed by the State Senate. The Board of Regents confers such degrees and grants such diplomas as other universities are wont to confer and grant.

The permanent endowment of the university amounts to about one hundred thousand dollars realized from the sale of the land granted to the state by the general government for the purpose of establishing a university, and a fund of fifty thousand dollars donated by Mr. Henry Villard. The university also receives an annual sum from the state.

SITUATION.

The University of Oregon is situated at Eugene, Lane County, one hundred and twenty-five miles south of Portland, on the Southern Pacific Railroad. Eugene is the county seat of Lane County, has five thousand inhabitants and is surrounded by scenery of great natural beauty. The university campus lies southeast of Eugene, about one mile and a half from the post-office, and contains twenty-seven acres of land.

THE FACULTY.

CHARLES HIRAM CHAPMAN, PH. D., *President*. A. B., *extra ordinem*, Johns Hopkins University, 1888. Fellow, 1888-89. Ph. D., Johns Hopkins University, 1890. Instructor and Associate in Mathematics, Johns Hopkins University, 1892. Member of American Mathematical Society.

Publications: "On the Units of an n -fold space," Am. Journal of Math. "On the Matrix which represents a Vector," Am. Journal of Math. "On the application of Quaternions to Projective Geometry," Am. Journal of Math. "A French Analytical Geometry," Bulletin Am. Math. Society. Review of Lie's "Theorie der Transformationsgruppen," Bulletin of Am. Math. Society. "Weierstrass and Dedekind on General Complex Numbers," Bulletin Am. Math. Society. Review of Macfarlane's "Algebra of Physics," Bulletin of Am. Math. Society. "An Elementary Treatise on the Theory of Equations," Wiley and Sons, New York.

JOHN W. JOHNSON, A. M., *Professor of Latin*. A. B., Yale University, 1862. A. M., Yale University, 1865. Principal, Portland High School, 1869-76. President, University of Oregon, 1876-93. Professor of Latin and Greek, University of Oregon, 1876-82. Professor of Latin and Ethics, University of Oregon, 1882-94.

THOMAS CONDON, PH. D., *Professor of Geology*. Professor of Geology and Natural History, University of Oregon, 1876-82. Professor of History, Geology and Natural History, University of Oregon, 1882-92. Professor of Geology and Natural History, University of Oregon, 1892-95.

Publications: "The Fossil Horse, His Place in the Records of the Past and the Theories of the Present," Oregonian. "The Rocks of the John Day Valley." "The Willamette Sound." "How Oregon was made," Overland Monthly. "Preliminary Report of the Geology of Oregon," State Print.

JOHN STRAUB, A. M., *Professor of Greek*. A. B., Mercersburg College, 1876. A. M., Mercersburg College, 1879. Assistant Professor of Greek and German, Mercersburg College, 1877-78. Professor of Modern Languages, University of Oregon, 1878-82. Member of the Modern Language Association of America.

BENJAMIN JAMES HAWTHORNE, A. M., *Professor of Mental Science*. A. M., Randolph Macon College, 1861. Professor of Languages in Collegiate Institute, Baton Rouge, 1866-69. Professor of Languages, West Tennessee College, 1869-73. President, West Tennessee College, 1873. Professor of Languages, State Agricultural College, Oregon, 1873-84.

LUELLA CLAY CARSON, A. M., *Professor of Rhetoric and English Literature*. A. M., University of Oregon and Pacific University. Preceptress, Pacific University and Tualatin Academy, 1879-84. Professor of Rhetoric and Elocution, University of Oregon, 1889-95.

EDGAR MCCLURE, A. M., *Professor of Chemistry*. A. B., University of Oregon, 1883. A. M., University of Oregon, 1886. A. B., Harvard University, 1894. Tutor, University of Oregon, 1886-92. Member of the Deutsche Chemische Gesellschaft and the American Chemical Society.

E. B. MCELROY, A. M., *Professor of Ethics and Pedagogy*. A. M., Christian College, 1883. Ph. D., Willamette University, 1884. Instructor in Oregon Agricultural College, 1876-82. State Superintendent of Public Instruction, Oregon, 1882-95.

CHARLES FRIEDEL, PH. D., *Professor of Physics*. A. B., University of Wisconsin, 1882. Student at University of Leipsic, 1887-89. Student at Johns Hopkins University, 1892-93. Ph. D., University of Leipsic, 1895. Patentee of galvanic cell, 1881.

Publications: Ueber die Absorption der Strahlenden Wärme durch Flüssigkeiten, Wiedemann's Annalen der Physik und Chemie, Band, 55.

FREDRICK L. WASHBURN, A. M., *Professor of Biology*. A. B., Harvard University, 1882. A. M., Harvard University, 1895. Graduate Student, Johns Hopkins University, 1886-87. In-

structor in Zoology, University of Michigan, 1887-88. Graduate Student, Harvard University, 1888-89. Professor of Zoology, Oregon Agricultural College, and Entomologist to the Experiment Station, 1889-95. Member of the American Association for the Advancement of Science.

FREDRICK G. YOUNG, A. B., *Professor of Economics and History*. A. B., Johns Hopkins University, 1886. Graduate Student, Johns Hopkins University, 1886-87. Vice-President, State Normal School, Madison, S. D., 1887-90. Principal, Portland, Oregon, High School, 1890-94. President, Albany, Oregon, College, 1894-95.

JOHN D. LETCHER, B. S., C. E., *Professor of Mathematics*. "Distinguished Graduate," (B. S.), Virginia Military Institute, 1875. Assistant Professor of Mathematics and Physics, V. M., 1875. C. E., University of Arkansas. Professor of Applied Mathematics, University of Arkansas, 1884. Chief Engineer of the Ohio and Northwestern Railroad, 1886. Professor of Mathematics and Engineering, Oregon State Agricultural College, 1888-95.

MARIE LOUISE BARIGHT, *Professor of Elocution*. Graduate of the School of Expression, Boston, 1892. Instructor in Elocution and English Literature, Penn. State Normal School, Westchester, 1892-95.

EDWARD H. McALISTER, A. B., *Associate Professor, Applied Mathematics*. A. B., University of Oregon, 1890.

N. L. NARREGAN, *Dean of the Preparatory Department*. Graduate Parson's Commercial School. Admitted to practice in the Supreme Courts of Michigan and Oregon. Member of the National Association of Accountants and Book-keepers.

JOSEPH R. WETHERBEE, *Director of Physical Education*. Physical Director of the Willamette Valley Chautauqua Association, 1895-96. General Secretary and Physical Director, Salem, Oregon, Young Men's Christian Association, 1891-93. Student of Dr. Dudley Allen Sargent, Harvard University.

PHILURA E. MURCH, A. B., *Tutor in Modern Languages*. A. B., University of Oregon, 1887. A. M., University of Oregon, 1890. Student of Madam Fancaunet, Paris, 1890-91.

INEZ DELASHMUTT, A. B., *Tutor in English and English Literature*. A. B., Wellesley College.

W. GIFFORD NASH, *Director of Music*.

DORA L. SCOTT, *Librarian*.

SETH McALISTER, *Assistant in Chemistry*.

STANDING COMMITTEES.

ON DISCIPLINE:—(*Monday at 3:30 p. m.*) Chapman, Condon, Narregan, Carson, Friedel, Letcher, Johnson, Hawthorne. Secretary, McAlister.

ON STUDIES:—(*Wednesday at 4:15 p. m.*) Chapman, Baright, Hawthorne, Carson, Washburn, Young. Secretary, DeLashmutt.

ON ABSENCES:—(*Friday at 4:15 p. m.*) Chapman, Straub, Washburn, Friedel, Young, Hawthorne. Secretary, Narregan.

ON DORMITORY:—(*Meets on call.*) Chapman, Letcher, McElroy, Johnson, McClure, Narregan.

ON EXAMINATIONS:—(*Meets on call.*) Chapman, Johnson, McClure, Straub, McElroy, Condon.

ON ATHLETICS:—Young, Hawthorne, McClure, Carson.

UNIVERSITY SOCIETIES.

ALUMNI ASSOCIATION.

The Alumni Association of the University of Oregon was organized in 1879. The membership consists of all the graduates of the Literary Department of the University, now numbering one hundred and sixty-nine. 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."

Public literary exercises are conducted annually by the Association on Wednesday afternoon of Commencement week, and an annual banquet is given on Thursday evening, to which also the members of the Faculties, Board of Regents, and prominent educators of the State are invited. The banquet is made the occasion for brief discussions of topics pertaining to the interests of higher education, usually given in the form of toasts, by prominent Alumni and invited guests.

The following is a list of the Presidents of the Association from its organization to the present time:

R. S. Bean, '78,	1879-1880.
George S. Washburne, '78,	1880-1881.
M. S. Wallis, '78,	1881-1882.
Nettie McCornack, '80,	1882-1883.
Emery E. Burke, '81,	1883-1884.
Wallace Mount, '83,	1884-1885.
B. B. Beekman, '84,	1885-1886.
Anna Whiteaker, '81,	1886-1887.
H. F. McClure, '85,	1887-1888.
C. S. Williams, '81,	1888-1889.
S. W. Condon, '82,	1889-1890.
Edgar McClure, '82,	1890-1891.
E. O. Potter, '87,	1891-1892.
E. H. McAlister, '90,	1892-1893.
Fletcher Linn, '90,	1893-1894.
Arthur L. Veazie, '90,	1894-1895.
Herbert T. Condon, '92,	1895-1896.
Julia Veazie, '95,	1896-1897.

ACADEMY OF SCIENCE OF THE UNIVERSITY OF OREGON.

The following papers have been read during the year: "Two recently discovered Fossils" by Prof. Condon. "The Psychology of Belief" by Dr. Chapman. "The absorption of ultra-red rays by organic liquids," by Dr. Friedel. "Micro-organisms and their pathogenetic importance" by Dr. T. W. Harris. "Dynamogenesis" by Prof. Hawthorne. "Is the theory of the materialist sufficient?" by Dr. Kuykendall. "The origin of meteorites" by Prof. McAlister. "Chemical change" by S. H. McAlister. "The Acetylene Light" by Prof. McClure.

At the meeting in January '97 the following officers were elected for the ensuing year: President, Prof. Edgar McClure;

vice-President, Prof. E. H. McAlister; Sec-Treasurer, Dean N. L. Narregan.

THE STUDENTS' ASSOCIATION.

The constitution adopted by the body of college students and ratified by the faculty, is here printed:

We the undersigned collegiate students hereby organize a student body, which will have for its purpose the carrying on of such enterprises as shall be entrusted to it by the faculty, and we hereby adopt the following constitution for its regulation:—

CONSTITUTION.

ARTICLE I.—NAME.

The name of this organization shall be the Collegiate Students' Association of the University of Oregon.

ARTICLE II.—OBJECT.

The object of the Association shall be to conduct such student enterprises as the Association may decide, provided that they have previously received the approval of the faculty.

ARTICLE III.—MEMBERSHIP.

All students in the college department of the university shall be members of this Association upon signing the constitution.

ARTICLE IV.—OFFICERS.

SECTION 1. The officers of this Association shall be a president, a vice-president and a secretary, chosen by ballot at the regular meeting of the Association held in the last week of September of each year, provided no student shall be eligible to office whose standing is under 85 per cent, and the election of all officers shall be subject to the approval of the faculty. If a vacancy occur in any office such vacancy shall be filled by an immediate election.

SEC. 2. The president shall preside at all meetings of the Association and perform the usual duties pertaining to that office.

SEC. 3. The vice-president shall perform the duties of the president in the absence of that officer.

SEC. 4. The secretary shall keep an accurate record of the proceedings of each meeting of the Association, address such

communications as the Association may direct, and attend to customary duties of the secretary's office.

ARTICLE V.—MEETINGS.

SECTION 1. Regular meetings of the Association shall be held during the last week of the University session in September, December, March and June of each year; at the time and place specified in the written call of the president.

SEC. 2. The president shall call a special meeting at the written request of thirty members; two days' notice thereof shall be given, and no business shall be transacted not specified in the call.

SEC. 3. Thirty members shall constitute a quorum.

ARTICLE VI.

"Roberts' Rules of Order" shall govern this Association when the Constitution does not specify.

ARTICLE VII.—AMENDMENTS.

Amendments to the constitution may be proposed at any regular meeting when they shall be read the first time; at any meeting held not sooner than two weeks thereafter they shall be read a second time and voted upon. A two-thirds ($\frac{2}{3}$) vote of the members present shall be necessary for adoption, to be approved by the faculty before going into effect.

YOUNG WOMEN'S CHRISTIAN ASSOCIATION.

This Society of students was organized in March, 1894. Its object is to throw Christian influences around the young women of the University. Also to cultivate the social powers of the members. The usual exercises are those of an ordinary prayer-meeting. The number of active members is thirty-two; the officers are chosen for a term of one year; and the Association meets in the Dormitory at 4 o'clock, Wednesday afternoons.

YOUNG MEN'S CHRISTIAN ASSOCIATION.

This Association was organized in February, 1892. Its object is to encourage and promote Christian work, Christian living

and Christian ideals in the student life of the University. There is no regular order of exercises at the meetings. A leader is chosen for each meeting and a subject assigned to him. The leader conducts the meetings as he thinks proper or as instructed by the committee on religious meetings. The principal exercises are singing, praying and speaking. The number of active members is fifty; associate members, five; sustaining members, seven; the officers are chosen for a term of one year; and the Association meets in Miss DeLashmutt's room in the Dormitory at 6:30 o'clock, Wednesday evenings. The meetings close at 7:15.

LAUREAN SOCIETY.

The Laurean Society was organized in 1876. Its object is to develop the power of argumentation, to cultivate extempore speaking and to train the mind to criticise correctly. The Laurean Society in conjunction with the Eutaxian Society owns a good library of about 700 volumes. The time of meeting is 7:30 o'clock each Friday evening of the school year. Its place of meeting is the Southwest room on the third floor of Deady Hall. The officers are elected for one quarter of the school year, or ten weeks. Among the officers are included an editor, historian and parliamentarian. The usual order of exercises is calling to order, routine business, recess, an extemporaneous speech, a prepared address from members appointed for the occasion, debate. The leaders and their colleagues discuss the question first, then the subject is thrown open for discussion by any member present.

PHILOLOGIAN SOCIETY.

The Society was organized October 21st, 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 declamation; an extemporaneous address on some current topic; a prepared address of fifteen minutes; and a debate open to all members with leaders appointed two weeks in advance. The number of members is forty-seven; the officers are elected for a term of ten weeks; and the meetings are held in Professor Johnson's room at 7:30 on Friday evenings.

EUTAXIAN SOCIETY.

This a literary society for women. The usual order of exercises is:—Rhetoricals, debate, literary program or parliamentary discussion. The officers are chosen for a term of the college year and the society meets in the society room in Deady Hall at 3:15 o'clock on Friday afternoons.

ATHLETICS.

The students maintain an athletic club. The club conducts the athletic affairs of the University under the following rules:

I.—QUALIFICATIONS FOR MEMBERSHIP IN TEAMS.

1. The candidate must have 42 credits earned.
2. He must maintain a student character above reproach to be eligible to membership or to retain his position on a team.
3. He must have maintained a standing of 85 per cent in each of his studies during the last preceding semester to be admitted to membership on a team.
4. He must have been a student in the university at least one year, and if the student has registered after the opening of the university year he must have registered at least two months before joining the team.

II.—THE COACH.

1. The coach must be of good moral character.
2. He must be a college graduate.
3. He must be approved by the athletic committee before he is employed.

III.—GAMES AND CONTESTS.

1. No game shall be played except with college teams.
2. The football season shall close December 1st.
3. The schedule of games shall be submitted to the faculty for approval before any games are arranged.
4. *General management.*—All actions and resolutions of the

Athletic Club and of all teams must be reported to the Athletic Committee for approval.

IV.—THE ATHLETIC COMMITTEE.

The Faculty shall elect a committee of four to exercise its full powers in matters of athletics.

REQUIREMENTS FOR ADMISSION.

A. ADMISSION TO THE SUB-FRESHMAN CLASS.

Under the regulations adopted by the Board of Regents in February, 1897, students must have thirty credits of preparation above the eighth grade in order to enter the sub-freshman class, the English course and the course in pedagogy. The preparation should be made in the following branches: History, Algebra, Geometry, Physiology, Advanced Physical Geography, English Grammar, English Literature, English Composition, Civics.

The following two years' course of study is so arranged as to earn the credits at the rate of fifteen each year; each class recites daily.

Ninth Grade.

First half year:—Algebra, Physical Geography, History of Greece, English Classics and Composition.

Second half year:—Algebra, Physical Geography, History of Rome, English Classics and Composition.

Tenth Grade.

First half year:—Algebra, Physiology, Geometry, English Classics and Composition.

Second half year:—Geometry, Civil Government, Botany, Advanced English Grammar.

This course gives the student four recitations a day for two years. Each recitation should be forty-five minutes long in order to earn the credits. Credits are computed on the understanding

that one recitation per week of forty-five minutes in length for forty weeks shall earn one credit. Hence when the recitations are thirty minutes in length two-thirds as many credits will be earned. The school year ought to be at least thirty-six weeks in length.

The work in English classics and composition should have a full recitation period daily. It should be considered as important as the mathematics.

Latin may be substituted for any studies in the course except English and mathematics. None of the studies in the above course will be taught in the university after the present classes have finished them, and no new students will be admitted to the classes.

The university has made arrangements to give instruction in these branches by correspondence to deserving students who are not within reach of a school where they are taught. Those wishing to take lessons by correspondence should address University of Oregon, Eugene, Oregon, Extension Department.

ALGEBRA.

The amount of Algebra required is the same as that given in the state text-book. Special attention should be given to solving problems and especially to the subject of factoring. The Binomial Theorem for positive entire exponents must be mastered and also such elementary work in series as is given in the text-book. Students ought to be able to solve ordinary algebraic problems easily, and perform all the operations with algebraic symbols which are touched upon in the text-book.

GEOMETRY.

All the work in the text-book should be mastered. One year should be given to the study, and both plane and solid Geometry should be included in the course. The student ought to work many original problems, and should be encouraged to find out demonstrations different from those in the book.

PHYSICAL GEOGRAPHY.

The work in the text-book is sufficient. No more than one year should be given to it, and if possible practical illustrations ought to be devised for such things as Artesian wells, Geysers, etc.

HISTORY.

The student ought to master the main facts in the history of Greece and Rome, and should have a pretty clear conception of the condition of life in ancient times. If possible, he ought to read half a dozen books, either history or historical novels, which will tend to make the concepts clear to him. Dates are not so important as general notions of cause and effect.

PHYSIOLOGY.

The ground covered by the text-book is sufficient if the work is well done. The pupil ought to dissect a small animal like a cat with some care, and the teacher ought to make hygiene an important part of the course.

CIVIL GOVERNMENT.

The text-book ought to be finished, and the pupil should have a clear notion of the forms and principles of the United States government and the government of his own state. The more important parts of the constitution of the United States ought to be learned by heart. The state text-book ought to be supplemented by a few works of reference.

BOTANY.

The pupil ought to learn to analyze easy flowers and should make an herbarium of about fifty specimens. A good text-book ought to be used and thoroughly mastered.

ENGLISH GRAMMAR.

The work in English grammar should consist mostly in the analysis and parsing of difficult constructions. The state text-book gives about the required amount and kind of work. The sentences to be analyzed should be selected from classic English literature. Only a small part of the time of the class ought to be given to diagraming sentences.

ENGLISH CLASSICS.

The work in English classics ought to be mainly the critical reading of the works of good writers. These can now be obtained in a form so cheap that there is no excuse for their absence from any schoolroom. The use of formal reading books above the eighth grade is for the most part a waste of time for which there is no excuse. The pupil should read the classics under the supervision of the teacher at the rate of about one a month, taking Julius Cæsar as typical in length. There should be regular recitations upon the classics. The teacher should prepare many questions for each recitation, and the pupil should be required to write frequent essays upon the characters, the thoughts, and the structure of the work which they are reading. The work in English classics should be the most difficult and at the same time the most attractive in the school curriculum. The formal study of the history of English literature is nearly worthless in the ninth and tenth grades. A few facts ought to be learned incidentally, but the teacher who devotes the time of his class to memorizing names and dates is falling far short of his duty. The history of literature is of no consequence in school except when it is subordinated to the study of literature itself. The state university would gladly send free to teachers lists of desirable works for children to read in the ninth and tenth grades with prices and instructions for obtaining them by mail. This work has been too much neglected in our schools.

ENGLISH COMPOSITION.

The work in English composition can be made fruitful only when it is carried on under the minute supervision of the teacher.

The state text-book gives the necessary amount. The teacher should supervise the pupils while they are writing their compositions in order to avoid mistakes. It is of small use for him to correct mistakes after they have been made and the pupil has forgotten them. He ought to devote his energies to so interesting the pupils in writing correct English that they will desire to avoid mistakes. This is the only way to secure correct composition. The number of essays written should be very large. The teacher should insist on the use of a good grade of paper, neat penmanship, and some systematic form for the placing of the essay on the page. No slovenly work should be tolerated. Success in teaching composition depends upon minute attention to small details in the first place, and in the second place upon providing pupils with suitable material to write about. The teacher should never ask a pupil to write a composition until he has provided him with something to say. The text-book ought to be thoroughly mastered.

B. ADMISSION TO THE FRESHMAN CLASS.

It should be the aim of the public schools in every town in the state to extend their courses of study until they can prepare students to enter the Freshman year of the university. The university is most eager to see real high school instruction develop in Oregon and to encourage it the following rule has been adopted:

STUDENTS PRESENTING CREDITS FROM ACCREDITED SCHOOLS SHALL BE ALLOWED THEIR EQUIVALENTS IN THE UNIVERSITY OF OREGON.

The president of the university will gladly answer all inquiries relating to this subject. It is hoped that increasing numbers will apply for advanced standing each year.

Under the above rule graduates from the full courses in the following schools are entitled to the number of credits indicated. Sixty-two credits admit to the freshman year without conditions. The estimates are based on information furnished during the year 1896-97 and will be revised as the schools advance.

ACCREDITED SCHOOLS.

SCHOOL.	CREDITS.	PRINCIPAL OR SUPERINTENDENT.
Baker City.....	55	J. A. Churchill.
Independence.....	34	T. A. Hayes.
Union.....	35	E. B. Conklin.
La Grande(4 yr. course).....	62	Herbert Kittredge.
Pendleton.....	25	L. L. Lewis.
Cottage Grove.....	40	W. H. Powell.
Oregon City.....	36	S. W. Holmes.
La Creole Academy.....	45	A. M. Saunders.
Harrisburg.....	30	R. S. Hughes.
The Dalles.....	45	John Gavin.
Athena.....	30	G. H. Dunn.
Astoria.....	62	R. N. Wright.
Bandon (Major Course).....	50	John S. Hodgkin, S. B.
McMinnville.....	25	W. J. Reynolds.
Enterprise Academy.....	30	C. A. Dotson.
Bishop Scott Academy.....	62	Dr. J. W. Hill.
Jacksonville.....	32	J. M. Horton.
Bethel.....	17	Mrs. J. C. Taggart.
Normal School, Monmouth.....	73*	Pres. P. L. Campbell.
Normal School, Ashland.....	62	Pres. W. T. Van Scoy.
Normal School, Weston.....		Pres. M. G. Royal.
Normal School, Drain.....		Pres. Louis Barzee.
Marshfield.....	50	F. A. Golden.
Santiam Academy.....	62	S. A. Randle.
Portland High School.....	62	H. M. James.
Portland Academy.....	62	Drs. Johnson and Wilson.
Junction City.....	25	J. P. Holland.
Ashland (Public School).....	45	C. A. Hitchcock.
Grants Pass.....	36	C. S. Price.
Halsey.....	30	A. M. Reeves.
Albany (Public School).....	45	Hiram Tyree.
Huntington.....	30	Geo. F. McAulay.
Medford.....	43	G. A. Gregory.
Klamath Falls.....	37	Will S. Worden.
Lafayette.....	22	John Blough.
Canyon City.....	15	W. W. Wood.

*Mature graduates from the State Normal School at Monmouth may entertain a reasonable hope of earning a University degree in three years. They have 57 credits to earn.

Brownsville.....	13.....	W. A. Calder.
Coquille Collegiate Institute.....	52.....	Pres. J. L. Futrell.
Springfield.....	14.....	S. T. Adams.
Park Place.....	40.....	J. W. Gray.
Scio.....	16.....	W. J. Crawford.
Wasco.....	26.....	W. J. Peddicord.
Heppner.....	31.....	W. C. Howard.

A comparison of this list with the one published last year will show that it contains many additional schools; while one has been dropped. A number of schools, notably those at Baker City, Medford, Albany, Klamath Falls, Jacksonville, Huntington and La Grande have advanced their courses. No changes among teachers appear except at La Grande, Pendleton, Harrisburg and McMinnville. Upon the whole therefore the condition of the secondary schools in Oregon is becoming satisfactory.

Students will be received at the university only from schools which earn 30 or more credits. Schools falling below this limit should hasten to raise their grade as rapidly as possible. The following four years' course of study for the 9th, 10th, 11th and 12th grades will be found a useful guide to teachers and school officers. It will earn 62 credits at the rate of fifteen yearly in the 9th and 10th grades and sixteen yearly in the 11th and 12th grades. The recitations are supposed to be from 30 to 45 minutes long and there are four recitations each day. Only two grades of Latin are given, but there will be sub-freshman Latin classes at the university for some time to come where this work may be made up. It is a rule of the faculty that when a student has made good preparation in other branches part of his sub-freshman work in foreign languages may count as college work.

Suggestions for a Course of Study for Secondary Schools.

Ninth Grade.

First half year.—Algebra, physical geography, history of Greece, English classics and composition.

Second half year.—Algebra, physical geography, history of Rome, English classics and composition.

Tenth Grade.

First half year.—Algebra, physiology, history of France, English classics and composition.

Second half year.—Geometry, botany, history of England, English classics and composition.

Eleventh Grade.

First half year.—Geometry, chemistry, history of England, Latin.

Second half year.—Chemistry, civil government, history of English literature, Latin.

Twelfth Grade.

First half year.—Trigonometry, physics, political economy, Latin.

Second half year.—Physics, advanced history of the United States, advanced English grammar, Latin.

In the above course the work in English classics and composition should be considered of the first importance. It should have a full daily recitation period and especially must students read a large number of works. The university will gladly furnish teachers with information about books and methods for carrying out this work successfully.

Preparation equivalent to the first two years of the above course is required for admission to the sub-freshman class. Equivalents will be accepted to a reasonable extent except in mathematics and English.—[For details upon this point, see p. 15.]

EXAMINATIONS.

Students will be examined for entrance to the university on the first day of the fall term. Applicants for examination should notify the president of the university about one week before the

term opens. The ground covered is sufficiently indicated above. Examinations will be held in the president's office and will be in writing.

Students presenting proper certificates from accredited schools are not examined.

Written examinations are held by the teachers, during the last week of each semester. Not more than one week may be spent in review of any one branch before the examination in it. Students are marked A, B, C or D according to their excellence in class work and examinations. "A" means "excellent." "B" means "very good." "C" means "good." "D" means "passed."

A student failing to reach the grade "D" in any class must make up such conditions as his instructor may prescribe but will not be dropped from the class except in certain extreme cases by action of the faculty.

STATE DIPLOMAS.

Under Senate Bill No. 112, the State Board of Education has determined that all persons making application for state diplomas shall pass an approved examination in the following branches: Book-keeping, composition, physical geography, algebra, English literature, Oregon school laws, general history, and theory and practice of teaching. The examination will be held at the end of each session of the university. The bill is printed below:

Senate Bill No. 112.

A BILL for an Act to encourage more thorough preparation of Teachers for Public School Work in the State of Oregon.

Be it enacted by the Legislative Assembly of the State of Oregon:

That all persons who shall complete a required course of study, and receive a literary degree therefor in any institution of learning of collegiate or university grade, chartered or incorporated under the laws of this State, and shall have passed such examination thereon as may be designated and approved by the State Board of Education, shall be entitled to receive a State Diploma, as is now authorized by law, and after six years of successful teaching in the State of Oregon shall be entitled to a State Life Diploma, as now provided by law, when they shall have paid the required fee for said diploma.

Approved February 20, 1891.

REGISTRATION OF STUDENTS.

All students register at the beginning of the fall term for the work of the whole year. No credit will be allowed for work not so registered. Studies cannot be changed or dropped later than the first week of the fall term, except with the written consent of the student's adviser, the standing committee on studies, and the teacher of the class; and such consent must be filed in the office of the university. Every student before he enters any of his classes must obtain a registration card.

DIRECTIONS TO NEW STUDENTS.

Upon arriving at the university the new student should call at the president's office in Villard Hall, fill out an application blank, learn the name of his adviser and have his credits certified. The adviser will give him all necessary information about board, studies and text-books, and certify to his choice of studies. The student should then return to the office, pay his incidental fee and be registered.

Students wishing to board in the dormitory must obtain their adviser's permission, and have it countersigned by the president.

The Young Men's and Young Women's Christian Associations of the university issue an annual "Handbook for Students," which contains much valuable information about the university, the college organizations and college life, points to be observed by new students, and interesting facts about Eugene and vicinity. It is valuable especially to new students, and is sent free upon application with one cent stamp to College Y. M. C. A. or Y. W. C. A., Eugene, Oregon.

The Christian Associations render much assistance to new students during the opening days in September by meeting them at the trains, by conducting information and employment bureaus, book exchanges, and keeping lists of rooms and boarding places. The new student may save much time and labor by availing himself or herself of these conveniences, which are freely and gladly given.

YEARLY CERTIFICATION OF CREDITS.

Each student will receive at the end of the college year a card certifying to the credits he has earned during the year.

The student cannot enter his classes in the fall until he presents his credit card at the office, properly made out and signed.

EXERCISES OF THE SEMESTER.

Each student is expected to have seventeen exercises weekly. One exercise must be in English composition; and there may be one in elocution and one in hygiene. Mature students who are unusually strong in mind and body may often obtain permission to take more than seventeen exercises weekly. The time spent in college may be materially shortened in this way under favorable conditions.

Regular students in mining and engineering must follow the courses laid down in the catalogue. Two hours of laboratory work, work in the machine shop or drawing are considered the equivalent of one recitation.

Class marks are taken into account in estimating the final marks. Students will receive zero class marks for excusable absences from recitations but they are allowed to make up the work and thus raise their marking.

GRADUATION.

The university grants the degrees Bachelor of Arts, Bachelor of Science and Bachelor of Letters. In the school of Mines and Engineering it confers the titles Mining Engineer, Civil Engineer and Electrical Engineer, with the degree Bachelor of Science.

It requires regularly four years beginning with the Freshman to earn each of these degrees, and the number of credits to be earned is 68. For each degree certain courses are prescribed which are here specified:

FOR BACHELOR OF ARTS: 18*, 19*, 20*, 137*, 25*, 26*, 27*, 56, 9, 60, 44, 64, 49, 50, N, 13*. For 25*, 26*, 27* the student may

substitute 31*, 32*, 33*. The courses marked with a star are substitute freshman.

FOR BACHELOR OF SCIENCE: 18*, 19*, 20*, (or 31*, 32*, 33*), 36*, 37*, 5*, 6, 9, 60, 44, 56, 49, 50, 51, 13*.

FOR BACHELOR OF LETTERS: 31*, 32*, 33*, 36*, 37*, 38, 5*, 6, 9, 56, 60, 44, 64, 45, 137, 49, 50, 51, 13*.

PREScribed STUDIES FOR THE DEGREE BACHELOR OF SCIENCE WITH THE TITLE MINING ENGINEER, CIVIL ENGINEER OR ELECTRICAL ENGINEER: All the studies scheduled in these courses are prescribed.

SHORT COURSE DIPLOMAS: The university grants a diploma to students who complete satisfactorily the Business course, or the Normal course in physical training of two years.

NORMAL DIPLOMA: A normal diploma will be granted to students who complete satisfactorily the course in Theoretical Pedagogy.

MASTER OF PEDAGOGY: Graduates of approved normal schools who enter the university will be allowed full credit for their work in such schools. Upon completing an elective course which must include History of Education, 5 credits; Philosophy of Education, 5 credits; Economics, 3 credits; General English Literature, 3 credits; Rhetoric, 4 credits; History of Philosophy, 4 credits; Mental science, 5 credits; and at least 3 credits in English, they will receive the degree Master of Pedagogy. Enough work above the preparatory must be accounted for to earn 68 credits; of these 4 may be in Hygiene.

COMMENCEMENT ORATIONS.

Six members of the graduating class will be annually selected to deliver orations on Commencement Day. This privilege is offered to students in the order of their class standings and is optional. In computing class standings for this purpose Elocution and English are allowed a weight of five. The standings will be made known to the members of the class during the first week of the second semester and their options must be filed in the office before the end of the week. Only persons who elect to deliver Commencement orations under the above conditions are eligible to compete for the Failing and Beekman prizes. The subjects for Commencement orations are announced not more than six weeks before the orations are to be delivered.

HONORS.

No valedictorian will be chosen in 1896-7 or thereafter. Honors will be assigned as follows:

Students shall graduate *Summa cum laude* when at least half their credits rank A and none rank below B. *Magna cum laude* when no credits rank below B. *Cum laude* when at least half their credits rank B and none rank below C. When a student's credits rank lower than any of the above he shall graduate *rite*.

PRIZES.

The following prizes are offered annually for proficiency in oratory:

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 course 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, not to exceed one hundred dollars, is the income from 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.

The award of the prizes is made as follows:

"The Faculty of the aforesaid University shall select, at each commencement exercise, three disinterested persons from different portions of the state of Oregon, if possible, or from other states, or from this state and other states, excluding all persons connected with said University, excepting members of the said Board of Regents; and said three persons selected by the said Faculty shall act as judges, who, after hearing the orations pronounced by the members of the graduating class, shall determine what member thereof has pronounced the best oration, and also what member thereof has pronounced the second best oration, and to these members shall be awarded respectively the above named Failing and Beekman Prizes. The judges, in deciding what members have pronounced the best and second best orations, shall take into consideration the originality of the subject mat-

ter, the style of treatment, rhetorical excellence and the manner of delivery. And no oration shall be considered in the award of said prizes unless delivered without the aid of manuscript.

"Prior to the delivery of the orations for said prizes, the President of the University, or some one under his direction, shall publicly announce to the judges the terms and conditions upon which the awards are to be made, and the majority of the judges shall be sufficient to award either of said prizes."

Awards of the Failing Prize:—

In 1890.....	Edward H. McAlister.....	Eugene.
In 1891.....	S. Etta Levis.....	Harrisburg.
In 1892.....	Lenn Stevens.....	Eugene.
In 1893.....	Carey F. Martin.....	Eugene.
In 1894.....	Irving M. Glen.....	Dayton.
In 1895.....	Julia G. Veazie.....	Dallas.
In 1896.....	H. S. Templeton.....	Halsey.

Awards of the Beekman Prize:

In 1890.....	Agnes M. Green.....	Seattle.
In 1891.....	Veina E. Adair.....	Eugene.
In 1892.....	Fred S. Dunn.....	Eugene.
In 1893.....	Thomas M. Roberts.....	The Dalles.
In 1894.....	Elias M. Underwood.....	McMinnville.
In 1895.....	Benetta Dorris.....	Eugene.
In 1896.....	V. V. Johnson.....	Eugene.

SCHOLARSHIP IN THE SCHOOL OF MEDICINE.

The following resolution has been adopted by the faculty of the University School of Medicine:

Resolved, That, until otherwise ordered, this department hereby establishes and will maintain one scholarship in the school of medicine to which only graduates of the school of arts or science of the university of Oregon shall be eligible and upon the following conditions: At the time of entrance upon the medical course in this department the applicant shall have received his degree of A. B. or B. S. within two years immediately preceding. He shall be recommended by the majority of the faculty of the arts and science department as being worthy and, if more than one appli-

cant shall apply the same year for the benefit of the scholarship, the person recommended must stand higher than any other applicant of his year in his graduation marks or credits.

Only one student shall be permitted to enjoy the benefit of the scholarship (which shall be known as "The University Scholarship") at any time. Students under the scholarship hereby created shall be exempt from the payment of all fees except matriculation, \$5; demonstrator's, \$10 for each of two years; cost of dissecting material and examination fees per catalogue.

EXPENSES.

The university charges a yearly incidental fee of \$10, payable at the opening of the fall term by each student.

The cost of living in the dormitory is \$2.50 per week. This includes board, heat, light and lodging; but does not include bed-clothes, mattresses and towels.

The cost of living in the town of Eugene varies from \$3 to \$5 per week. Many students rent rooms and board themselves at a very small cost. A fair estimate of the yearly expenses is from \$125 upwards.

The expense of books varies from \$5 per year upwards. There is no change of studies during the year so that students need buy only one set of books, with few exceptions.

A small deposit is required from each student in the department of Chemistry. From this at the end of the year the actual cost of breakage and injuries to apparatus is deducted and the balance returned.

THE LIBRARY.

The University Library occupies a room in Deady Hall, and contains at present about seven thousand volumes. The collection is a choice one, being largely the selection of the heads of the departments.

The Dewey system of classification has been adopted and the books are shelved in a continuous order. Relative location and alphabetical order are employed, the books being arranged under

the following general heads:—General Reference; Philosophy; Religion; Sociology; Philology; Natural Science; Useful Arts; Fine Arts; Literature; History.

A part of the books was bought at a cost of one thousand dollars by Mr. Henry Villard. The annual sum coming from the Villard fund for the purchase of books for the library is four hundred dollars. The library is also a depository of all documents published by the general government at Washington.

Teachers in the university, students and resident graduates are entitled to draw books from the library. To all other persons it is a reference library.

Students may draw three volumes at a time, to be retained if desired for two weeks, with the privilege of one renewal.

The library receives some good American and foreign literary and scientific periodicals. The collection of reviews and periodicals, both current and bound, is especially valuable. Poole's and other indexes of general literature are at hand to aid reference.

The library is open every day, during term time, from 9 a. m. to 3 p. m., except Saturdays and Sundays.

DEPARTMENT LIBRARY OF ECONOMICS, HISTORY AND POLITICAL SCIENCE.

For the effective teaching of history, economics and allied subjects a working library is quite as essential as a laboratory is for the physical sciences. In fact the library is in all essentials the laboratory of economics and politics. On the organization of the department of Economics and History five hundred dollars were appropriated for obtaining a nucleus for this new department library. To the books thus secured there have been segregated such works of the main library as belong distinctly to the courses of the department, and new works are added as the funds of the university permit.

DEADY HALL.

Deady Hall was erected by the citizens of Lane County and presented to the state. It was named in honor of the late Matthew P. Deady, the first president of the board of regents, and for many years a constant benefactor of the university. It is three stories high besides the basement and contains the library, the chemical and physical laboratories, the biological laboratory, and the hall of the literary societies.

VILLARD HALL.

Villard Hall was named in honor of Henry Villard, another friend of the university. In this building are recitation rooms, the president's office, a large audience room and Professor Condon's great collection of minerals, fossils and natural history specimens.

THE DORMITORIES.

The Men's Dormitory erected by the munificence of the state accommodates about ninety students. The rooms are sufficiently large to furnish quarters for two students each, and are well lighted and ventilated. The whole building is heated by steam. It consists of two wings entirely separated from each other. Each wing has a reception room, intended for the accommodation of visitors; but during the last year it has been necessary to use one of them for a recitation room, owing to the overcrowded condition of the university.

The Women's Dormitory, recently acquired by the university, is a good building situated south of the campus on a tract of nine acres of land. It will accommodate about thirty young women. For the present this building will be used for classes.

The *price of board* in the dormitories, including heat, light and lodgings, is **\$2.50 per week.**

THE OBSERVATORY.

The Astronomical Observatory is situated on Skinner's Butte. It is supplied with a good transit instrument and other useful astronomical apparatus.

THE UNIVERSITY MONTHLY.

The student body publishes a monthly periodical called the UNIVERSITY OF OREGON MONTHLY. It fills the usual place of college papers.

UNIVERSITY EXTENSION.

The work of the extension course is carried on by correspondence and is entirely free, with the exception that ten cents for postage and clerical work is charged for each set of questions.

Students wishing to enroll themselves in the extension class should send their names to "Extension Department, University of Oregon, Eugene," enclosing ten cents. They will receive in return directions for study and questions upon the text-books selected.

Dr. Chapman continued his educational lectures at many places. They were devoted principally to the advancement of secondary education. Professors Condon, Friedel, Young, Washburn and McClure have also delivered lectures before educational bodies.

The extension class in English literature has been continued during the year. Eight English classics have been read by the most advanced members of the class under criticism and careful questioning. The class includes members in all parts of the state.

By the generous co-operation of the newspaper press of the state the university has been enabled to make widely known to the people a proposition to carry on by correspondence a four years' course of study which shall be entirely free except for the actual clerical expenses and postage. The course is intended for both young and old and embraces the four departments of mathematics, science, history and language, including two years of Latin. No students are desired except those who cannot attend a regular school; because the best correspondence course is inferior to a moderately good school. Sets of questions upon the text-books are sent out to applicants; the answers when sent in are corrected and returned; and explanations are furnished when desired. The fees for each set of questions including the correction of the answers is ten cents.

The state reading circle work has also been added to the extension department during the current year. It is proposed to divide each book adopted by the circle into ten parts and send out one set of questions for each part; the questions to be sent monthly. Exercises upon the reading circle work will also be conducted in the county institutes and teachers' meetings whenever practicable. All county superintendents will probably see the value of this work and help it forward. The regular fee for

joining the reading circle is fifty cents which should be sent by postal order. All correspondence for the extension department should be marked as follows: University of Oregon, Eugene, Oregon, "Extension department."

THE EDUCATIONAL CONVENTION.

The second annual convention of Oregon Teachers was held at Eugene during commencement week in June, 1896. The convention arranged for the publication of a periodical to be called *The Oregon Teachers' Monthly* which has been issued regularly during the current year. It is under the management of Superintendent G. W. Jones of Marion County.

The convention also organized the Oregon Teachers' Club which will hold a meeting at Monmouth some time during the current year.

DESCRIPTION OF THE COURSES.

[The university offers to new students sub-freshman courses as follows: These courses afford ample and varied preparation for the freshman year. Due attention must be given to prescribed studies.

LATIN, courses 18, 19, 20, 138—13 credits.

GREEK, courses 25, 36, 27—13 credits.

GERMAN, courses 31, 32, 33—13 credits.

FRENCH, courses 36, 37—10 credits.

CHEMISTRY, course 13—4 credits.

MATHEMATICS, course 5—5 credits.

These courses are fully described under the proper departments.

Students entering the university with thirty credits have thirty-two credits to earn before they become freshmen. By a recent decision of the faculty they may take two years to earn these credits if they so elect. In that case two credits may be earned in hygiene.

The following schedules are intended only for students now registered:

The special class known as the second year class in 1897-98, will regularly take the following courses: for A. B., 25, 19, 2, 54, 48, 89; for B. S. and B. L., 36, 32, 2, 54, 48, 89.

The special third year class will regularly take: for A. B., 3, 20, 26, 102, 104, 90; for B. S. and B. L., 3, 37, 33, 102, 104, 90.

The present third year class will be freshmen next year if all their credits are duly earned.

The special fourth year class will regularly take: for A. B., 138, 27, 13, 139, 144, 141; for B. S. and B. L., 5, 13, 38, 139, 144, 141.

Students desiring to finish the above work in two years have permission to do so after consultation with their advisers.]

MATHEMATICS.

Professor Letcher.

2.—SECOND YEAR ALGEBRA. Taylor. The text-book completed. Will not be given after 1897-8.

Professor Letcher, 3 credits, 1, 3, 5-9 a. m.

3.—GEOMETRY. Bowser. This course will not be given after 1898-9. Students who have had plane geometry will enter the class during the second half year.

Professor Letcher, 4 credits, [Time to be set.]

5.—TRIGONOMETRY AND ANALYTICAL GEOMETRY. Wheeler, Nichols. Sub-freshman. Prescribed for B. S. and B. L. degrees.

Professor Letcher, 5 credits, 1, 2, 3, 4, 5-8 a. m.

6.—CALCULUS. Osborne, Byerley. Prescribed for the degrees B. S. and B. L. and in Engineering courses.

Professor Letcher, 5 credits, 1, 2, 3, 4, 5-2 p. m.

7.—DETERMINANTS, THEORY OF EQUATIONS AND DIFFERENTIAL EQUATIONS. Chapman, Johnson.

Professor Letcher, 5 credits, 1, 2, 3, 4, 5-10 a. m.

EUGENE Divinity School.

(Incorporated November, 17, 1895.)

Adjacent to University Campus on the West.

EUGENE C. SANDERSON, Dean.

A. B., Oskaloosa College, 1883. A. M., Oskaloosa College, 1886.
B. D., Drake University, 1893. B. S. T., University of Chicago,
1894. D. D., Willamette University, 1896.

MORTON L. ROSE, Associate Professor.

Graduate from the Bible College, Drake University, 1893.

1.—The Eugene Divinity School is entirely independent of the University.

2.—Third session begins Tuesday, September 14, 1896

3.—Divinity students may avail themselves of all the advantages given by the University of Oregon. They are admitted without examination on the recommendation of the Dean. No studies given in the University are offered in the Divinity School.

4.—Tuition in the Divinity School is free except a contingent fee of \$3.00 per term. If only one study is taken this fee will be less.

5.—Two-thirds of the Board of Regents of the Divinity School must be members of the Christian Church, but the school is open to young men and women without regard to denominational peculiarity. All students looking toward the ministry are invited to avail themselves of the combined advantages of the Divinity School and the State University.

6.—The Bible is the principal text-book.

The course of study includes:—

a.—A systematic study of Bible doctrine.

b.—A general survey of all the books of the Bible.

c.—Scripture Exegesis.

d.—Sacred History in connection with the General History of the World.

e.—Church History, with especial reference to the history of Christian doctrine.

f.—Christian Evidences.

g.—Comparative Religion.

h.—Christian Missions.

i.—Pastoral Theology.

j.—Preparation and delivery of sermons.

7.—The four years Divinity course includes Elocution and several Philosophical and Classical studies in the University. Where sufficient preparation has been made the English Bible course may be completed in two years. Those who desire to take a few studies, but not a full course, will be received and given proper credit for the work done.

Thorough preparation is especially urged upon all students who would equip themselves for the Ministry of the Gospel.

For further information address the Dean, or

W. R. HOLLENBECK, Sec.,

Eugene, Oregon.

127.—HIGHER ALGEBRA.

Professor Letcher, 3 credits.

8.—SOLID ANALYTICAL GEOMETRY. Smith. Essential for Advanced Physics, Engineering and Higher Mathematics; must follow Calculus.

66.—MODERN ANALYTICAL GEOMETRY. The methods of Clebsch. Essential for higher Mathematics; must follow Calculus.

APPLIED MATHEMATICS.

Associate Professor McAlister.

73.—ASTRONOMY. Spherical, practical and descriptive. Instruction is given by lectures, and a large amount of observatory work is required. The most useful formulæ relating to the positions of the heavenly bodies are developed in the four principal systems of co-ordinates now in use; and the students are taught to apply these practically in the observatory to such problems as the determination of longitude and latitude, establishment of a true meridian, determination of sidereal time, apparent and mean solar time, standard time, the time of rising and setting of any heavenly body, prediction of eclipses, calculations of parallax, use of refraction tables, computation of geocentric distances of planets from given elements, etc. The observatory work also includes an examination of the sun, moon, planets, double and colored stars, star clusters, nebulae, and such other objects of interest as may be within the power of the telescope used.

In addition to the mathematical topics mentioned above, the course of lectures will include among other things a consideration of the solar system as a whole, with its laws and fundamental principles, followed by a detailed treatment of the various members of the system, including comets, shooting stars and meteorites; an exposition of all the more important facts known in respect to the stars, star clusters and nebulae; a rather full treatment of the subject of tides as cosmogonic agencies; and a comprehensive account of the Nebular Hypothesis.

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.

The course will be open to those who have a knowledge of plane and spherical trigonometry, general physics and general chemistry.

Associate Professor McAlister, 3 credits, 1, 3, 4—1 p. m.

79.—SURVEYING. The Surveying department is provided with the following instruments: Surveyor's Transit, Burt's Solar Compass, Plane-Table, with the best modern improvements and attachments; Compass with graduated limb reading to minutes; Vernier Compass, Engineer's Y-level, Sextant, Polar Planimeter, Mercurial Barometer, Aneroid Barometer, 8-inch Vernier Protractor reading to minutes; Leveling rods, Ranging Poles, Engineer's and Gunter's Chains, Steel Tape, etc.

Students are taught to determine the true meridian by observations on the Pole Star with the transit, as well as by the solar compass; and then, by comparing the direction of the needle with the true meridian, to determine the variation of the needle. The ordinary operations of land surveying with chain and compass or transit are extensively practiced by the students, together with the draughting of plots, computation of areas, etc. Ample practice is also given in the determination of inaccessible heights and distances by angular measurements, and also in measuring heights with the mercurial and aneroid barometers. Students learn to use the plane-table in making plots of the courses of streams, bodies of water, plots of land, and general topographical features. They learn also the methods of stadia measurements, and the calculation of areas by the polar planimeter. The best methods of differential and profile leveling, establishing grades, etc., are practically applied.

Associate Professor McAlister, 4 credits, 2-10 a. m. Field work 6 hours a week.

126.—HIGHER SURVEYING. Students in this course will have access to the large transit instrument at the observatory and the sidereal clock, to establish a true meridian with greater precision than is possible with the ordinary surveyor's transit, and to determine time, longitude and latitude by astronomical observations. The course includes Topographic, Hydrographic, Mining and Geodetic Surveying.

For all field work the class is divided into parties of two or three, and individual work is insisted upon as far as practicable.

It is expected that the various additional instruments made necessary by the new courses in Engineering will be supplied in time for the work of the coming year.

Associate Professor McAlister, 3 credits, Field work 4 hours a week.

77.—MECHANICAL DRAWING. Six hours per week. Text: Faunce. Description and use of instruments, geometrical problems, inking, tinting, orthographic projections, shadows, isometrical drawings, oblique projections, working drawings, blue print process.

Associate Professor McAlister, 3 credits.

78.—DESCRIPTIVE GEOMETRY. Six hours per week. Text: Faunce. After becoming familiar with the fundamental principles respecting points, lines and planes, the student takes up various problems involving the cylinder, cone, double curved surfaces of revolution; the intersection of planes and solids; the development of solids; the intersection of solids, etc. The course will also include a sufficient amount of instruction and practice in the proper shading of drawings, and the methods of casting shadows. Special attention will be devoted during a part of the second semester to linear perspective, or the art of representing objects and parts of objects in their correct proportions and positions as affected by differences of distance from the eye.

Associate Professor McAlister, 3 credits.

PHYSICS.

Professor Friedel.

9.—ELEMENTARY PHYSICS. The university offers two courses in Physics, an elementary course, for freshman students, and an advanced course for such students as have already completed some adequate elementary course. Instruction in both courses is given by lectures; five times a week in the elementary and four times in the advanced course. Students taking the elementary course are expected to keep a permanent record of the lectures in as complete a manner as possible, and to submit this record from time to time to the instructor for criticism. In the elementary course it is the purpose to present the subject in its more general aspect. It is prescribed for all students seeking a degree. The course of lectures extends through the year and takes up successively the topics of Mechanics, Acoustics, Heat, Light, Optics, Electricity and Magnetism. In scope, the aim for the ensuing year will be about that contained in Ganot's text-book. In addition to the lecture work each student is required to spend at least two hours a week in the laboratory, and he is expected to carry out in a satisfactory manner not less than one hundred experiments during the year. The results of these experiments

must be written up in good form and kept for reference in a separate note-book.

Professor Friedel, 6 credits 1, 2, 3, 4, 5-9 a. m. 2 hours laboratory work weekly.

10—ADVANCED PHYSICS. The course in Advanced Physics presupposes not only a thorough mastery of the principles given in the elementary course but a good working knowledge of calculus, and differential equations.

The aim of this course will be to give, as far as the time will permit, a thorough mathematical treatment of the fundamental principles of Analytical Mechanics, Electricity and Magnetism, Heat, Light and Sound. Such text-books as Maxwell's Matter and Motion, Maxwell's and Clausius's Theory of Heat, Preston's Theory of Light, Emtage's and Mascart and Joubert's Electricity and Magnetism and others will be placed in the hands of students as reference and supplementary text-books.

153.—For the ensuing year and until such time when a sufficient number of students shall possess adequate preparation, a course will be offered in Physics which in scope will be equivalent to that given at Johns Hopkins, as a major course for undergraduate students. This will embrace the same subjects as those given above for the more advanced course with the exception of Analytical Mechanics. The preparation required in mathematics will be limited for this course to a working knowledge of Calculus.

Whatever knowledge of Differential Equations may be necessary for the full comprehension of the treatment given will be supplied during the course.

Professor Friedel, 6 credits, 1, 2, 3, 4-8 a. m. 4 hours laboratory work weekly.

Whenever students shall have sufficient training in mathematics and a demand is manifested, separate courses in Analytical Mechanics, Dynamics of a Particle, Rigid Dynamics, Geometrical Optics, and Fourier's Theory of Heat will be given. The university is fortunate in having secured from Europe during the past year considerable additional apparatus of the very best make and finish. The Physical Laboratory is roomy and is fitted up with gas and water supply, as well as with electrodes for electric currents from dynamos and accumulators. In the matter of thorough and complete provision with delicate balances, mirror galvanometers, rheostats, cathetometers, spectrometers, polariscopes, thermo-electrical apparatus, projection apparatus and apparatus for work in radiant energy, few laboratories in the country are better equipped.

The establishment of a workshop in connection with the department of physics has proved an invaluable aid. Apparatus which has become damaged in use is not only readily replaced, but new apparatus is constantly being constructed. The shop is open to the students of the department and offers an excellent opportunity towards securing that intimate acquaintance with finer details that only the actual construction of apparatus can furnish.

Original investigations are carried on in the private laboratories throughout the year by the instructors, and students are invited to familiarize themselves with the methods employed. Whenever students shall have sufficient training to undertake profitably original work, both opportunity and apparatus will be provided for this purpose.

11.—ADVANCED MECHANICS.

Professor Friedel.

12.—ELECTRICITY AND MAGNETISM.

Professor Friedel. Courses 11 and 12 will be given as soon as students have obtained sufficient preparation in calculus and differential equations to follow them.

CHEMISTRY.

Professor McClure.

The university recognizes the fact that no true scientific work can be done in chemical lines without bringing the student into direct contact with the substances studied and the entire plan of their course in chemistry keeps this in view.

The Chemical Laboratories are equipped with desks for individual student work. The desks are of approved pattern and are so arranged that each student has his own locker in which his apparatus can be locked up during his absence. Although the laboratory has sixty-eight of these individual lockers its capacity has been over-taxed during the past year to accommodate the students in chemistry.

Each student is required to make a deposit of \$5 at the opening of the session to cover loss by breakage. This fee is returned

when the apparatus is returned in good order. No charge is made for the use of apparatus but each student is held responsible for breakage.

The laboratories must be enlarged to accommodate the additional courses to be given next year.

In none of the courses is the instruction limited by the text-book but the book is taken as a guide and the course deviates from it as may seem to the best interest of the students.

The courses in chemistry to be given during the session of 1897-8 are General Chemistry, Qualitative Analysis, Quantitative Analysis, Determinative Mineralogy, Metallurgy and Ore Dressing.

13.—GENERAL CHEMISTRY. Remsen's Briefer Course. This course is prescribed for all degrees. There are two recitations or lectures each week and four hours' laboratory work. The recitations and lectures cover the ground generally gone over in the course in general chemistry in the schools and colleges in the country. Especial attention is given to the laws of theoretical chemistry, the periodic law, and recent discoveries of interest.

Laboratory work is considered of prime importance. In the laboratory students will perform experiments illustrative of the work done in the text-book and will prepare all the common inorganic compounds. This is such a course as is needed by students intending to pursue the study of Pharmacy. *Sub-freshman.*

Professor McClure and Mr. S. H. McAlister, 3 credits, First Division, 2-8 a. m. and 4-10 a. m. Second Division, 2-10 a. m. and 4-2 p. m.

15.—QUALITATIVE ANALYSIS AND MINERALOGY. The two complete one year's work. Qualitative analysis September to April. Mineralogy April to June—6 credits. Text-book: Qualitative Analysis, Hill. It is designed to make the student familiar with the ordinary principles of analytical work. The student works first upon known substances and then passes to the determination of unknown substances, a sufficient number of which are given to insure familiarity with the processes of qualitative analysis. Especial attention is given to separations which affect the determination of the precious metals.

This course is chiefly laboratory work but lectures will be given as often as may be necessary.

MINERALOGY. Text-book: Determinative Mineralogy and Blow-Pipe, Brush. This course embraces the identification by means of the blow-pipe of the crystalline rocks. The text-book is used chiefly for reference, instruction being given by lectures and by laboratory work. The lectures will give outlines of Crys-

tallography. The student will be expected to identify about one hundred unknown minerals, embracing the minerals of common occurrence and of economic importance.

Professor McClure, 6 credits.

116.—ORE DRESSING.—This course will consist of lectures covering the most approved methods of treatment of ores in the United States. The methods used in Europe will be compared with those used in the United States that the student may obtain a comprehensive view of the subject.

Professor McClure, 2 credits.

117.—METALLURGY. This course is intended to fill a demand which the state has been making for a course in practical work on the determination of the valuable constituents of the rocks. Attention will be given especially to the methods of assaying gold, silver, copper and lead and such other mineral products as may be of value to the state. Instruction will be given by lectures and students will be given actual work in the processes of assaying.

Professor McClure, 2 credits.

152.—ORGANIC CHEMISTRY. This course is intended to outline the subject of organic chemistry and give the student an idea of its scope. The preparation of a series of organic substances will be required of the student.

Professor McClure, 2 credits.

GEOLOGY.

Professor Condon.

In this department the following courses will be offered in 1897-8. Students will have free access to Professor Condon's great museum.

75.—PHYSICAL GEOGRAPHY.—Text-book and lectures. Only for the special second year class and not to be given after 1897-8.

Professor Condon, 2 credits.

3, 5-1 p. m.

148.—ETHNOGRAPHY. Open to all students. The course will consist of lectures upon: (1) The antiquity of the human race, illustrated with specimens. (2) The early migrations of races. (3) Permanent localities of races. The course will include such

studies of geography as will naturally be required in treating the topics.

Professor Condon, 2 credits,

1, 4-10 a. m.

16.—GENERAL GEOLOGY. Descriptive course.

Professor Condon, 4 credits,

1, 2, 3, 4-9 a. m.

174.—ADVANCED GEOLOGY. Instruction in Economic Geology and Mineralogy, embracing the study of building materials, decomposition of rocks and production of soil; useful minerals, their occurrence in veins and beds; coal deposits, surface geology and its application to engineering. The work in mineralogy is mostly blow-pipe analysis under Professor McClure.

Students have the use in their daily work of the great Condon Museum.

Professor Condon, 2 credits.

2, 3-2 p. m.

BIOLOGY.

Professor Washburn.

This department is well equipped with microscopes and other apparatus used in Physiology, Anatomy, Histology and Embryology. It has a museum collection containing skeletons, models and type specimens to illustrate the different groups. The courses are arranged to give special opportunities to those intending to study medicine in the University Medical School or other medical schools, and to those who intend to teach, or to pursue investigations in biological science. Some of the courses, apart from their practical value, are to be regarded as culture studies recommended to any desiring a broad and liberal education.

By arrangement with those in charge of the medical school at Portland, connected with the university, any student who has passed here in Elementary Physics and Chemistry, Human Osteology and Syndesmology, Histology, and Physiology (Proximate Principles and Blood) can anticipate one year of his work at the medical school.

Students intending to study medicine or to teach are advised to take Nos. 103 and 67 in their Freshman year, No. 68 or No. 145 in their Sophomore year, No. 69 in their Junior year and Nos. 146 and 110 in their Senior year. This plan, how-

ever, may be varied; the student planning work in Biology should consult the instructor in order to work systematically.

Those desiring a general knowledge of the animal kingdom, as part of their education are advised to take No. 67.

In each course, the cost to the student has been reduced to the lowest possible figure.

103.—HUMAN PHYSIOLOGY. Intended for those desiring to know more of the subject than offered by the preparatory school and thus to prepare themselves for further work in this line, for teaching, or for entrance to the medical school. There is laboratory work during the greater part of the first semester, 2 hours each week. Two recitations weekly during the second semester.

Professor Washburn, 2 credits,

2, 4-10 a. m.

67.—GENERAL ZOOLOGY. A comparative study of types and the philosophy of classification. The course is designed to give a general survey of the whole field of zoology. In the laboratory the more simple animals are first studied and later those of more complex organization. Intended as an introductory course. Drawings of dissections and notes on personal observations are required.

Laboratory guide: Marshall & Hurst's Practical Zoology.

Professor Washburn, 4 credits, Laboratory work, 1, 3-2 to 4 p. m.

Lecture or quiz, 3, 5-10 a. m.

68.—COMPARATIVE ANATOMY OF VERTEBRATES. Dissection of Vertebrate types. Intended for those who, having taken No. 67, are particularly interested in zoology and desire to continue the study of vertebrate structure. Laboratory guide: Parker's Zootomy.

Professor Washburn, 1 credit, 2 hours laboratory work weekly with occasional quiz.

145.—MAMMALIAN ANATOMY AND HUMAN OSTEOLOGY. Detailed dissection of a mammal (a dog or cat) followed by a thorough study of the human skeleton with special reference to syndesmology. Must be taken by those intending to anticipate the first year in the university medical school.

Required works: Howell's Dissection of the Dog, and Gray's or Quain's Anatomy.

Professor Washburn, 1 credit, 2 hours laboratory work weekly.

69.—NORMAL HISTOLOGY. Lectures, recitations, and laboratory work. Open only to those who have passed satisfactorily in one

of the preceding three courses, or who can satisfy the instructor that they are otherwise qualified. The entire year is occupied with the study of mammalian tissues and with instruction in laboratory technique, methods of staining, imbedding and sectioning. Must be taken by those intending to anticipate the first year in the medical school.

Laboratory guide and text-book: Piersol's Normal Histology.

Professor Washburn, 3 credits,

2, 4, 5-2 to 4 p. m.

146.—VERTEBRATE EMBRYOLOGY. Lectures, recitations and laboratory work. Study of the embryonic development of the chick, with comparison of the development of other vertebrates. Must be preceded by No. 69. Advised for those intending to study medicine, to do advanced teaching or to pursue original investigation in biology.

Laboratory and text-book: Foster & Balfour's Embryology.

Professor Washburn, 2 credits.

110.—ADVANCED PHYSIOLOGY. No student should elect this course who has not had elementary work in Physics, Chemistry and Physiology. Open only to those who have passed satisfactorily in Mammalian Anatomy and Histology, or who can satisfy the instructor that they have done equivalent work elsewhere. Laboratory work consists of experimentation with cilia on ciliated surfaces, properties of contractile tissue, digestion, pulse, action of the heart, function of liver, blood pressure, optics, &c. Students are expected to learn how to use the kymograph, manometer, sphygmograph, cardiograph, &c.

Text-book: Waller's Human Physiology. Laboratory guide: Foster & Langley's Practical Physiology.

Professor Washburn, 2 credits,

1, 5-9. a. m.

147.—SPECIAL ZOOLOGY. For those students who have become interested in a special group of animals and wish to become more familiar with that group. A student may, with certain limitations and with the advice of the instructor, elect the class of animals he desires and will be instructed in structure of type, collecting, preserving, and classifying specimens, study of habits, distribution, &c.

The number of groups from which selection may be made is, naturally, limited. The student is advised to take No. 67 before electing this course.

Professor Washburn, 1 credit.

PSYCHOLOGY.

Professor Hawthorne.

45.—EXPERIMENTAL PSYCHOLOGY. Open to all who are prepared for the work.

The psychological laboratory consists of four rooms with apparatus for optical, acoustical, temperature, tactile, reaction, simultaneous, steadiness, attention, force, feeling and memory, experiments. Also the equipment includes instruments for the study of the time-sense, sense of position, association, aesthetics, and the motor effect of ideas and the emotions. There is a supply of material for all ordinary psychological experiments. The equipment is increased from time to time as the character of the investigation demands.

The work is of two kinds: (1) demonstration courses intended to give a general knowledge of the experimental methods and of their relations to the more theoretical aspects of psychology; (2) courses in original research in which advanced students are expected to pursue lines of work for a more or less extended period in some one field of experiment.

It is aim of the laboratory to furnish every possible facility for such research work by competent students.

Text-books: Scripture's Thinking, Feeling, Doing; Sanford's Experimental Psychology.

Professor Hawthorne, 5 credits, 1, 2, 3, 4-10 a. m. 2 hours a week in laboratory.

154.—PHYSIOLOGICAL PSYCHOLOGY. Open to all who are prepared to take the study.

A study (illustrated by charts, models, and histological preparations) of the human nervous mechanism, of the principal relations which exist between changes in this mechanism and the activities of the mind, and a discussion of the conclusions which may be drawn from these relations, respecting the nature and laws of mind.

Physiological Psychology includes an account of working hypotheses, methods, experimentations, and general results. The method is, as far as possible, illustrative, with a large amount of required reading upon selected topics.

Text-books: Wundt, Physiological Psychology; Human and

Animal Psychology; Ladd's Elements of Physiological Psychology; Schwalbe, Anatomie der Sinnesorgane; Edinger, Nervöse Centralorgane.

Professor Hawthorne, 3 credits.

155.—ELEMENTS OF PSYCHOLOGY. Open to all who are prepared to take the study.

Elementary Psychology includes a study of the phenomena of the intellect, sensibility, and will, with constant application to the processes of education, and the psychological origin of philosophical problems:

Recitations, lectures, and topics.

Text-books: James's Psychology, Briefer Course; Ladd's Primer of Psychology; Titchner's Outlines of Psychology.

Professor Hawthorne, 5 credits.

PUBLIC LAW.

Professor Hawthorne.

97.—INTERNATIONAL LAW. This course treats of the general principles of international law, as it has been developed by positive agreement, in the form of treaties and conventions, and by common usage, as shown in legislation, in decisions of international tribunals, and in the conduct of nations. Text-book and reports.

Lectures, recitations, and topics.

Professor Hawthorne, 1 credit,

5-11 a. m.

PEDAGOGY.

Professor McElroy.

106.—METHODOLOGY. *First Year.*—Besides the five credits specified below the student must elect twelve others. One may be in Hygiene.

Methods of teaching subjects in elementary schools; texts by

Brooks and Page. Observations, report of the committee of ten, with lectures by instructor. Reports upon special topics by the class. 1, 3-9 a. m.

SYSTEMS OF ELEMENTARY EDUCATION COMPARED. The several state school laws; decisions of the supreme court; Oregon school laws; laws of public schools. Text-books: Burke, Taylor and Boone on Education in the United States.

Lectures by instructor, 5-9 a. m.

CHILD STUDY. The child and child nature; School life in relation to growth and health; Object lessons—form, color and design; Growth in memory in children; Text-books: Boulton, Buelow, Calkins, Keys, Tracy. Results of child study in district schools. Graphic charts prepared by students. Lectures by instructor. 1, 5-10 a. m.

Professor McElroy, 5 credits.

125.—SCHOOL ADMINISTRATION. *Second Year.*—Besides the six credits specified below the student must elect eleven others. One may be Hygiene.

General school organization; management; supervision. Text-books: Baldwin, De Garmo, Pickard, Rein. General arrangements of subject matter, conduct of recitations, grading and arranging courses of study; school apparatus.

Lectures by instructor, 2, 3-11 a. m.

CHILD STUDY, COMPLETED. Essentials in a course of study for children; researches on the physical and mental development of school children; report of committee on the study of child development. Text-books: Gilbert, (Yale Univ.), Barnes. Observations; experiments and verification of methods of child study.

Theses by students; Lectures by instructor, 1, 5-11 a. m.

ELEMENTARY LOGIC. The following subjects will be studied and practical problems given under each head:

Primary laws, concepts, ambiguity of terms, intention and extension, relations, predication, simple propositions, compound propositions. Text-books: Davis and Hyslop. 2, 4-9 a. m.

Professor McElroy, 6 credits,

To receive the degree Bachelor of Pedagogy the student must earn 34 credits in addition to the 30 required for admission. This will also entitle him to enter the examination for a state diploma. The last 34 credits must be elected by the student under the direction of Professor McElroy.

156.—HISTORY OF EDUCATION. The history of educational theories and instruction of ancient and modern times will be treated at length. Education during the middle ages will be discussed under the following heads: Monastic schools, parochial schools and burgher schools, with special lectures on the rise of the universities, the advancement of scientific spirit and the education of women. Education during the reformation will be presented in a review of the works of Luther, Sturm, Bacon and Comenius.

History and expository course in the principles underlying theoretical and critical pedagogy.

History of typical schools in England and the United States including industrial and normal schools.

Study and discussion of special problems in the history of Education.

Special attention will be devoted to education in the nineteenth century and extended readings and study will be required in the works of Rousseau, Pestalozzi, Froebel and Horace Mann.

Discussion of current educational topics with exegeses on their subject-matter by the instructor. Students will prepare theses upon and full outlines of all texts studied.

Texts: Fouillee, Klemm, Painter; also educational reports and standard pedagogical periodicals.

Professor McElroy, 4 credits,

2, 3, 4, 5-2 p. m.

72.—PHILOSOPHY OF EDUCATION. Studies and research during the year in the following: Education in its special elements and systems; the purpose and end in education in relation to the individual and society; the order of mental development in relation to the subject-matter of study; comparative study of educational systems; theses and discussions on special topics in the philosophy of education; discussion of current educational problems. Lectures by the instructor.

Texts: De Garmo, Laurie, Palmer, Rosenkranz, the standard educational periodicals and Reports of U. S. Educational Commissioner Harris.

Professor McElroy, 4 credits,

2, 3, 4, 5-3 p. m.

157.—ELEMENTARY LOGIC. The following will be fully developed: Inference, the syllogism, canon and rules, figure and mood, logical fallacies, the law of thought, inductive reasoning. Numerous practical questions and problems will be introduced under each discussion and solved by members of the class.

Text-book: Hyslop.

Professor McElroy, 2 credits,

2, 4-11 a. m.

137.—ETHICS AND LOGIC. Logic: During the first semester the following will be fully developed: Elements of logical doctrine; concepts and their kinds; ambiguity of terms; intension and extension of concepts; definition and division. Propositions—subject and predicate relations of; Opposition—its meaning and application; immediate inference and its divisions. Practical problems will be given under each discussion.

During the second semester special prominence will be given to the principles warranting affirmation, negation, disjunction, hypothecation; also the following will be applied and illustrated at every point: Principles of mediate reasoning; the syllogism—its moods and figures and reduction of the same; fallacies and their classifications; the laws of thought and inductive reasoning. Practical questions and problems will be given in each recitation.

The elementary principles of the following will be studied under ethics: Ethics a science of values; a science of the ideal as contrasted with the actual, and ethics as a legislative or normative science. The freedom of the will; under this head the following will be discussed: The issue in regard to freedom; the theories of volition; the universality of causation; man's subordinate place in nature; the prevalence of the strongest motive; the influence of character. Other ethical problems will be developed such as the following: Nature and conditions of responsibility; limitations of responsibility; the influence of environment; the emotional elements; theory of rights and duties. Papers on subjects from practical life will be required from time to time. Lectures on the origin of moral relations and distinctions. Notes from the academy of science.

Text-books: Hyde, Hyslop.

Professor McElroy, 2 credits,

2, 4-10 a. m.

ECONOMICS, HISTORY AND PUBLIC LAW.

Professor Young.

44.—ECONOMICS. Economic History of Europe and America,

and general principles of economics with their applications to political economic problems.

Recitations, lectures and topics. Prescribed in all courses.

Professor Young, 3 credits,

1, 2, 5-11 a. m.

81.—HISTORY OF ECONOMIC THOUGHT. This course includes the history of economic theories in classical antiquity; their development under the influences of Christianity; the environment of Feudalism and movements connected with the Crusades; the rise and growth of Economics as a distinct branch of social science with special attention to the theories of value, monetary science, and theories of distribution and consumption.

Recitations, lectures and investigations. Open to all who have had course 44.

Professor Young, 2 credits,

2, 4-9 a. m.

149.—PUBLIC FINANCE. This course will include a discussion of the leading topics in the financial history of the United States and of Oregon. The theory and methods of taxation will be applied in criticism of national and state administration.

Text-book and reports.

Professor Young, 2 credits,

2, 4-10 a. m.

62.—HISTORY OF ENGLAND. Political and Social History of England from the earliest period to the present time.

Text-book, lectures and topics.

3 credits,

1, 3, 5-10 a. m.

63.—MEDIEVAL HISTORY. Political and Social History of Continental Europe from the barbarian invasions to the Renaissance. Should precede Courses 127, 128 and 129.

Text-book, lectures and topics.

Professor Young, 3 credits,

1, 3, 5-8 a. m.

127.—MODERN EUROPEAN HISTORY. Beginning with the Renaissance and extending to the French Revolution.

Text-book and co-operative topical work.

2 credits.

128.—HISTORY OF THE NINETEENTH CENTURY. This course covers the period from 1789 to the present time, and is designed to enable the student to understand current events by showing their connection with recent history.

Text-books, lectures and topics. [Omitted in 1897-8.]

Professor Young, 3 credits.

129.—AMERICAN POLITICAL AND INSTITUTIONAL HISTORY TO 1783. The development of the forces and process of discovery to their largest achievement in adding the new world to the old are traced. The transplanting and adaptation of the various types of local organization receive special attention. The main topics of the course are the development of commonwealth organizations and the causes of their confederation.

Professor Young, 2 credits.

65.—PUBLIC LAW. COMPARATIVE CONSTITUTIONAL LAW OF THE PRINCIPAL EUROPEAN STATES AND OF THE UNITED STATES.—This course comprises a comparison of the provisions of the constitutions of England, United States, France and Germany; the interpretation of the same by the legislative enactments and judicial decisions of the states, and the generalization from them of the fundamental principles of public law common to them all.

Text-book and reports.

Professor Young, 3 credits,

1, 4-8 a. m. and 3-2 p. m.

130.—AMERICAN CONSTITUTIONAL LAW. American institutions are considered with reference to their structure, practical working and the forces back of them.

Text-books, papers and collateral reading.

Professor Young, 3 credits,

1, 3, 5-10 a. m.

97.—INTERNATIONAL LAW. This course treats of the general principles of international law, as it has been developed by positive agreement, in the form of treaties and conventions, and by common usage, as shown in legislation, in decisions of international tribunals, and in the conduct of nations.

Text-books and reports.

Professor Hawthorne, 1 credit,

5-11 a. m.

40.—GENERAL SOCIOLOGY. This course includes the history of sociological theory; an analysis and classification of social phenomena; an exposition of the natural evolution of social activities and arrangements from their beginnings; an exploration of the social forces and laws so far as they are yet apparent. These principles will be applied along the different lines of social reform.

Lectures, field work and reports.

Professor Young, 2 credits,

3, 4-11 a. m.

GREEK.

Professor Straub.

This department offers six courses in Greek. The courses presented below are subject to such change and modification as the necessities or special ability of each class may demand. The first course in any study is the critical period, and upon the thoroughness of the work done then depends the student's like or dislike to the study. Realizing this, there is no attempt made to cover much ground in course 25, but ample opportunity is given for a thorough understanding of every point touched upon. The declensions and conjugations must be mastered and the principal parts of the more common irregular verbs well memorized. Indirect discourse, conditional clauses, participles, etc., are made subjects of special study, and after a year's earnest work these will present no insurmountable difficulties to the student.

In course 26, while the above points are still kept in view and frequently referred to, the student's energies are directed toward acquiring a good working vocabulary, without which the study of any language is and remains mere drudgery. The beauties of the literature and the thought of the writer are lost sight of in the effort to remember the meaning of the words. The first two years of Greek contain in them nearly all the hard work, the drudgery, of the Greek course. Of course, even here, it is not all drudgery, for the story of the journey of the immortal "Ten Thousand" reads like a fairy tale, and Cebes's Tablet is another "Pilgram's Progress."

Beginning with course 27, more attention is paid to the literary features of the authors read. Grammatical questions are discussed more rarely and principally only to enable the student to interpret the text critically in order to bring out the author's meaning. The works of the poets are studied with a view to a comprehensive understanding of the structure of the poems, the rhythm, poetic forms of words, etc.

Sight reading is practiced as frequently as possible from the very beginning, and about eight weeks are devoted to reading Books IV-VII of the *Anabasis* at sight. Supplementary private reading is also arranged for whenever it is deemed necessary.

Ancient Geography is taught incidentally; and a good course in Mythology, by text-book and lectures, is also given in this department.

25.—*First Semester.* First Greek Book, Gleason and Ather-ton. Ginn & Co.'s Classical Atlas. Five times weekly.

Second Semester. Xenophon's Anabasis, Harper and Wallace. Goodwin's Greek Grammar. Five times weekly. *Sub-freshman.*
Professor Straub, 5 credits, 1, 2, 3, 4, 5-11 a. m.

26.—*First Semester.* Xenophon's Anabasis, Books I, II, IV. Sanford's Greek-word list. Mahaffy's Old Greek Life. Four times weekly. 131.—Greek Prose Composition, Jones. Once weekly.

Second Semester. Anabasis, sight reading, Books V, VI, VII. Special study of Greek Prepositions, Adams. Cebes' Tablet, Parsons. Homer's Odyssey, Book VI, Bain. Fyffe's History of Greece. Four times weekly. Greek Prose Composition, once weekly. *Sub-freshman.*

Professor Straub, 4 credits, 1, 2, 4, 5-12 m.

27.—*First Semester.* Homer's Iliad, Seymour; Books I-VI, Jebb's Homer; Required reading: Gladstone's Homer; New Testament Greek. Four times weekly. 132.—Greek and Roman Mythology, Guerber. Once weekly.

Second Semester. Herodotus, Johnson; Stein's Dialect of Herodotus; Anacreontics, Flagg; Four Orations of Lysias, Whiton; Demosthenes, Philippics, Tarbell. Four times weekly.

Greek and Roman Mythology. Once weekly. 4-8 a. m.

Professor Straub, 4 credits, 1, 2, 4-10 a. m.

Courses 25, 26 and 27 may count as sub-freshman.

28.—*First Semester.* Demosthenes, De Corona, D'Ooge; Goodwin, Moods and Tenses; Sophocles, Antigone, D'Ooge; Sidgwick, Greek Prose Composition; Required reading: Bredif's Life of Demosthenes. Three times weekly.

Second Semester. Aeschylus, Prometheus, Wecklein; Thucydides, Morris; Odyssey, selections from Books XII-XXIV; Xenophon, Memorabilia; Greek Literature, Morris; Prose Composition. Three times weekly.

Professor Straub, 3 credits, 2, 3, 5-8 a. m.

29.—*First Semester.* Plato, Apology and Crito, Dyer; Medea of Euripides, Allen; Pindar, Odes, Seymour; History of Greek Philosophy, Burt or Mitchell. Three times weekly.

Second Semester. Euripides, Bacchantes, Beckwith; Aristophanes, Frogs, Acharnians or Clouds; Plato, Gorgias, Lodge; The Greek Theatre and Drama. Three times weekly.

Professor Straub, 3 credits.

30.—*First and Second Semesters.* Sophocles, Oedipus, White; Aeschylus, Seven against Thebes, Flagg; The Idylls of Theocritus; Oratory among the Greeks.

Professor Straub, 2 credits.

LATIN.

Professor Johnson.

The Roman Method of pronunciation is used in the university.

18.—Coy's Latin Lessons; Day in Ancient Rome, Shumway; Private Life of the Romans, Preston and Dodge; Creighton's History of Rome.

Professor Johnson, 5 credits, 1, 2, 3, 4, 5-8 a. m.

19.—Allen and Greenough's Grammar; Lorne and Ewing's Cæsar; Allen's Prose Composition; Two Orations of Cicero, Allen and Greenough.

Professor Johnson, 4 credits, 1, 2, 4, 5-10 a. m.

20.—Four Orations of Cicero; Allen and Greenough; Two Books of Vergil, Allen and Greenough. Prose composition.

Professor Johnson, 4 credits, 1, 2, 3, 5-11 a. m.

138.—Seven Books of Vergil. Latin composition.

Professor Johnson, 4 credits.

Courses 18, 19, 20, and 138 may count as sub-freshman.

21.—Prose Composition, Preble and Parker; De Senecute and De Amicitia, Long; Catullus, Merrill; Two Books of Livy, Greenough; Terence, Andria, Warren; Plautus, Captives, Morris.

Professor Johnson, 4 credits, 1, 3, 4, 5-9 a. m.

22.—Prose Composition; Tusculan Disputations; Horace.

Professor Johnson, 3 credits, 1, 3, 4-1 p. m.

23.—Annals of Tacitus; Satires and Epistles of Horace, Greenough.

Professor Johnson, 2 credits, 2, 5-1 p. m.

24.—Lucretius; Satires of Juvenal.

Professor Johnson, 3 credits.

GERMAN.

Professor Straub and Miss Murch.

The aim of this department is to enable a student to speak German with ordinary facility and to read not only easy German but also works on Science, Philosophy, etc., with a reasonable degree of accuracy and ease.

The result is brought about by careful grammatical drill, copious reading and last, but not least, the acquisition of a comprehensive vocabulary. In addition to this, as soon as practical and profitable, the German language is used as the medium of instruction and conversation. At the close of course 32 a student ought to be able to engage in the ordinary conversation of the day, and to understand lectures or sermons delivered in German. In courses 33, 34 and 35 the classic masterpieces are taken up and studied in connection with such historical material as will throw light upon the epoch in which they were written.

In the advanced courses in connection with the regular reading, a systematic study of the history of German literature is undertaken.

31.—BEGINNING GERMAN. *First Semester.* Collar's Shorter Eisenbach; Dreyspring's Easy Lessons; Märchen und Erzählungen, Guerber; German conversation.

Second Semester. L'Arrabbiata, Heath; Höher als die Kirche, Heath; Gernmelshausen, Heath; Schiller's Taucher, Heath; Kleine Geschichten, Bernhardt; Translation from English to German, alternative English Exercises, Lewis; German conversation.

Professor Straub, 5 credits.

1, 2, 3, 4, 5-9 a. m.

32.—ADVANCED GERMAN. *First Semester.* Sturm's Immensee, Bernhardt; Schiller's Der Geisterseher, Joynes; Die Hochzeitsreise, Heath; Hauf's Das Kalte Herz, Heath; Daily translations into German; German conversation.

Second Semester. Gore's German Science Reader; Bernhardt's Selections of Goethe's Meisterwerke; Goethe's Sesenheim, Heath; German Syntax; German New Testament.

Professor Straub, 4 credits,

1, 2, 3, 5-10 a. m.

33.—GERMAN CLASSICS. *First Semester.* Schiller's *Der Neffe als Onkel*, Heath; Hoffman's *Historische Erzählungen*, Heath; Riehl's *Der Fluch der Schönheit*; Korner's *Zriny*.

Second Semester. Lessing's *Nathan der Weise*; Wenekebach's *Deutsche Literatur-geschichte*; White's *Heine's Poems*, Heath; Goethe's *Faust* (Part 1.)

GERMAN DRAMA AND FICTION. *First Semester.* Freytag's *Die Journalisten*, Toy; Schiller's *Wilhelm Tell*; Goethe's *Egmont*.

Second Semester. Wallenstein, Three Parts; Historical Novels by Professor Ebers and others.

Miss Murch, 4 credits, 1, 5-1 p. m. and 2, 4-9 a. m.

Courses 31, 32, 33 may count as sub-freshman.

35.—GÖTTE AND SCIENTIFIC PROSE. *First Semester.* Life and Works of Goethe.

Second Semester. Scientific German Prose.

Miss Murch, 2 credits.

FRENCH.

Miss Murch.

36.—BEGINNING. *First Semester.* Van Daell's *Introduction to the French Language*; Super's *French Reader*.

Second Semester. Erkmann-Chatrion's *Waterloo*; easy Prose.

Miss Murch, 5 credits, 1, 2, 3, 4, 5-11 a. m.

37.—ADVANCED. *First Semester.* Classic French Plays; Moliere's *Les Precieuses Ridicules*, *Le Misanthrope*, *L'Avare*; Corneille's *Le Cid* and *Horace*; Racine's *Athalie* and *Esther*. Exercises in French Syntax and Composition during the whole year.

Second Semester. Luquien's *Popular Science*.

Miss Murch, 4 credits, 1, 2, 4, 5-8 a. m.

38.—CLASSIC PROSE AND MODERN POETS. Rousseau, Bossuet, Chateaubriand, Alfred de Musset, Victor Hugo.

Miss Murch, 3 credits, 1, 3, 5-12 m.

Courses 36, 37, 38 may count as sub-freshman.

39.—FRENCH PROSE. Rousseau, Voltaire, Renan, Victor Hugo.

Miss Murch, 2 credits,

2, 4-12 m.

ENGLISH.

Professor Carson, Professor Baright, Miss DeLashmutt.

Four objects are contemplated in these courses:

1.—A scientific knowledge of the origin and development of English Literature in general and of special periods in particular.

2.—A scientific knowledge of the laws of written and of spoken discourse.

3.—An ability to appreciate, enjoy and justly criticise the best in English Literature.

4.—Proficiency in English composition.

The first and third objects are reached through lectures, the study of texts, the reading and discussion of English classics and student reports; and the study of Anglo-Saxon and early English. The second object is reached through the study of Rhetoric and Criticism, and the analysis of masterpieces in English composition. The fourth object is reached by regular practice throughout the courses of study in writing essays, criticisms, forensics and orations.

48.—SECOND YEAR ENGLISH COMPOSITION. (*2 divisions.*) This course gives drill (1) in the fundamentals of composition; (2) in the relation of clauses, sentences and paragraphs; (3) in the special qualities of style: though constant practice in writing exercises under rhetorical rules, short narrations, descriptions and character sketches. Text-book: Genung's Outlines of Rhetoric. This course will not be given after 1897-8.

Miss DeLashmutt, 1 credit,

1-1 p. m. and 2-3 p. m.

104.—THIRD YEAR ENGLISH COURSE. This course gives training in the organization of material. It gives constant practice in the structure of the sentence and paragraph and composition under the four forms of discourse: narration, description, exposition and argument. Text-book: Genung's Outlines of Rhetoric. This course will not be given after 1898-9.

Miss DeLashmutt, 1 credit,

1-1 p. m. and 5-11 a. m.

144.—FOURTH YEAR ENGLISH COMPOSITION. A special course intended for students now registered who wish to take four years for preparation. Students who earn their 62 credits in three years will not take this course. It will not be given after the year 1899-1900.

Miss DeLashmutt, 1 credit.

60.—RHETORIC AND CRITICISM. Prescribed for all degrees.

In order to develop the logical sense and command of language, lessons are recited from outlines and by topics. A good deal of written work is done to develop accuracy, originality and creative power. Taste and love of good reading are educated through criticism of choice extracts of standard literature. 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 giving to invention. The laws governing the choice and arrangement of material are made prominent, also the peculiar characteristic of each form of discourse. Exercises are written illustrating the essentials of description, narration, exposition and the different forms of argument. Text-books: Genung's Practical Rhetoric and Genung's Rhetorical Analysis.

Professor Carson, 4 credits, 1, 2, 3, 5-11 a. m. and 12 m.

English Composition. The following courses in English Composition comprise papers under description, narration, exposition, criticism, and comparison, followed by forensics, analysis of masterpieces of argumentative composition and orations.

Occasionally short stories and vivid portrayals are written to secure graphic and sympathetic expression of thought. Under these various headings topics are assigned and an effort is made to refer to many phases of widely different subjects, so that every student may have opportunity to pursue some favorite line of thought or investigate some valuable question. Students are encouraged to utilize material prepared for other departments. Great stress is laid on the clear, forcible, elegant presentation of thought. Every essay must develop some orderly arrangement; every forensic must be an effort to decide some definite question in the affirmative or negative. All students have access to the valuable library of the university. Assistance is given by referring them to authors and articles relating to their assigned topics and they are encouraged to read widely and intelligently under an orderly outline of thought. But emphasis is laid on the original treatment of topics, in so far as that is possible. Mere summaries from book notes or encyclopedias will not be acceptable. It will not be admissible to quote without using quotation marks or naming the author. Subjects of imaginary or local interest are often assigned, upon which there can be no printed information, so as to require of the student independent thought. All students are urged to be

accurate in neatness of arrangement, spelling and punctuation, grammatical construction and figurative expression. Every paper, after criticism, is handed back to the student for correction, and so far as time will allow, is read in class, and its excellencies and defects are discussed. In the Junior and Senior courses in orations, lectures are given concerning the differences between spoken and written discourse, the characteristics of the oration as well as the higher art of composition.

49.—NARRATION AND DESCRIPTION. Prescribed for all who have passed in course 104. The aims of this course are (a) to stimulate an interest in literature for its own sake; (b) to secure accuracy in grammatical forms; (c) to develop confidence and ability in writing. Three methods are used: (1) the analysis in class of choice bits of literature; (2) constant practice in writing exercises in class and outside under grammatical rules and requirements; (3) the preparation of six short themes under narration and description. Text-book: Buehler's Practical Exercises in English.

Professor Baright, 1 credit,

2-2 p. m. and 5-11 a. m.

50.—CRITICISM, EXPOSITION AND ARGUMENT. Prescribed for all who have passed in course 49. This course is closely connected with course 60. It aims to give a practical knowledge (a) of the principles of English prose style; (b) of the organization of discourse from the choice of words up. Constant practice in writing consists of (a) exercises based on the text-book, written in the class-room and outside and (b) the preparation of six themes accompanied by outlines illustrating the principles of rhetoric under criticism, exposition and argument. Text-books: Genung's Practical Rhetoric, and Carpenter's Exercises in composition.

Professor Carson, 1 credit,

1-10 a. m. and 1-2 p. m.

51.—FORENSICS AND ORATIONS. Prescribed for all Juniors who have passed in course 50 excepting such as elect course 133. Course 51 consists of (1) the drawing of two briefs from master-pieces of argumentative composition; (2) the study of principles and methods under inductive and deductive arguments and of the qualities and structure of an oration; (3) lectures, consultations and criticisms of forensics and orations; (4) the writing of one narration or description, three forensics and one oration each preceded by a brief. Text-book: Baker, Specimens of Argumentation.

Professor Carson, 1 credit,

1-8 a. m. and 4-11 p. m.

52.—FORENSICS AND ORATIONS. Open only to Seniors who have passed in course 51. Seniors who have passed in course 51 or 133 must elect 52 or 134 or half courses 135a-135b. Course 52

consists of (1) the drawing of three briefs from masterpieces of argumentative composition; (2) the study of principles of argumentation, special attention being given to evidence, and of methods of persuasion, and to the consideration of motives; (3) lectures, consultations and criticism of briefs, forensics and orations; (4) the writing of two forensics and two orations each preceded by a brief. Text-books: Baker, Principles of Argumentation; Baker, Specimens of Argumentation.

Professor Carson, 1 credit,

5-2 p. m.

133, 134, 135.—ELECTIVE COURSES IN ENGLISH COMPOSITION. Two elective courses and two elective half-courses in English Composition will be offered 1897-98. Course 133, 1 credit, in forensics which may be elected instead of 51 by Juniors who have passed in 50; course 134, 1 credit, in forensics which may be elected instead of 52 by Seniors who have passed in 51 or 133; half-courses 135 (a) in forensics, 135 (b) in by-weekly themes, 1 credit, which together may be elected instead of 52 or 134 by Seniors who have passed in 51 or 133.

English Literature. 56.—GENERAL ENGLISH LITERATURE. Prescribed for all degrees. This course is a prerequisite for other courses in English literature. It is intended to be a college introduction to the study of literature. It is given through a text-book, Pancoast's Introduction to English literature, and a series of masterpieces: The Faerie Queene, Merchant of Venice, Bacon's Essays, Comus, Lycidas, The Ancient Mariner, the Excursion, Marmion, Essays of Elia, Childe Harold [Cantos III and IV], Silas Marner, The Princess. The aim is to secure these results: (1) a general knowledge of the great periods in the development of English literature; (2) a definite knowledge and appreciation of a number of English classics.

Professor Baright, 3 credits,

1, 3, 5-9 a. m.

57.—AMERICAN LITERATURE. Taken in regular course by Juniors. Open to all who have taken course 56.

Course 57 gives an outline of American literary history and the reading and discussing of important works in prose and verse. It is carried on through text-book, Hawthorne and Lemmon, American Literature; lectures and student reports. Authors read: Franklin, Cooper, Irving, Poe, Bryant, Longfellow, Emerson, Hawthorne, Holmes, Lowell, Taylor, Lanier.

Professor Carson, 2 credits,

2, 4-10 a. m.

58.—ELIZABETHAN DRAMA. Taken in regular course by Juniors and Seniors. Course 58 aims to give through lectures a gen-

eral knowledge of the rise and development of the Elizabethan Drama and through reports, the reading and discussion of plays, a more definite knowledge of the great contemporaries of Shakespeare and of one or two plays of Shakespeare. Thayer, *Best Elizabethan Plays*.

Professor Carson, 1 credit,

1, 3-10 a. m.

59.—SHAKESPEARE. Taken in regular course by Seniors. This course consists of about ten plays so selected from Dr. Furnivall's classification as to indicate the growth of Shakespeare's mind and development of his art. These plays are examined with special reference to their sources, relative dates and changes in style. An attempt is made to study the art in development of plot and delineation of character. The work is carried on through lectures, reports, class readings and discussions. Principal references consulted: Furness's *Variorum Edition*; Schmidt's *Shakespeare Lexicon*; Saintsbury's *Elizabethan Literature*; Leopold Edition with Dr. Furnivall's Introduction; Dowden; Corson; Hudson; Mrs. Jameson.

Professor Carson, 3 credits,

2, 3, 5-8 a. m.

96.—ENGLISH PROSE WRITERS OF THE NINETEENTH CENTURY. Macaulay, DeQuincy and Carlyle. This course is open to those who have taken course 56. It will be conducted through lectures, discussions and reports. Text-books: Minto, *Manual of English Prose*; Macaulay; Carlyle on Johnson (ed. W. Struck, Jr.); DeQuincy, *Joan of Arc* (ed. Hart.)

Professor Carson, 3 credits,

1-8 a. m. and 2, 4-9 a. m.

Courses in Victorian Poetry and Victorian Prose are under contemplation.

158.—EPIC AND LYRIC POETRY IN ENGLISH LITERATURE. Open in 1897-98 only to A. M. candidates.

This course includes a study of the historic development of the English epic. Short studies in the early ballads, and readings from the *Beowulf* (in translation), *Paradise Lost*, *The Idylls of the King*. Lyrics will be studied as to their nature and quality with readings from *Palgrave's Golden Treasury* and the poets.

Professor Carson, 3 credits.

54.—SECOND YEAR ENGLISH LITERATURE. Courses 54 and 102 are given to General English Literature. The same methods are used in 54 as in course 53. Works read: *Merchant of Venice*, *Lady of the Lake*, *Marmion*, *The Vicar of Wakefield*, *Silas Marner*, *Enoch Arden*, *The Ancient Mariner*, Webster's *Bunker Hill*,

Oration, Irving's Tales of a Traveller. Will not be given after 1897-98.

Miss DeLashmutt, 2 credits, 1, 5-8 a. m. and 1, 5-2 p. m.

102.—THIRD YEAR ENGLISH LITERATURE.—This course continues the study of General English Literature. The same methods are used as in course 53 and also special attention is given to historical setting, criticism of style, and comparison of authors. Works read: As You Like It, Defoe's History of the Plague in London, Burke's Speech on Conciliation with America, Milton's Paradise Lost (Books I and II), Macaulay's Life of Samuel Johnson, Scott's Marmion, Tennyson's Princess and Idylls of the King. Will not be given after 1898-9.

Miss DeLashmutt, 2 credits, 2, 4-9 a. m.

139.—FOURTH YEAR ENGLISH LITERATURE. A special course for students now registered who wish to take four years for preparation. Students who earn their 62 credits in three years will not take this course. It will not be given after 1899-1900.

Miss DeLashmutt 2 credits.

METAPHYSICS.

President Chapman.

One of the three following courses must be taken by all candidates for the degrees A. B. and B. L.

64.—HISTORY OF PHILOSOPHY. Omitted in 1897-8. Lectures and reading.

Dr. Chapman, 4 credits.

150.—PLATO'S DIALOGUES. Lectures and reading. Open to all students. Omitted in 1897-8.

Dr. Chapman, 4 credits.

151 —PHILOSOPHY. Text-book: Fiske, and lectures. Open to all prepared students. Will be offered in 1897-8.

Dr. Chapman, 4 credits, 2, 3, 4, 5-9 a. m.

The above courses will be given in successive years in the order 151, 150, 64. Students who wish to specialize in philoso-

phy should elect each as it is given. They can thus obtain an extensive acquaintance with the subject.

PHYSICAL EDUCATION.

Director Wetherbee.

89, 90, 144, 91, 92, 93, 94.—The University Gymnasium is fairly well equipped with good apparatus. Several pieces have been added during the year, especially instruments to be used in taking physical measurements and strength tests.

The main hall is forty by eighty-five feet, with a twenty-five foot ceiling. The director's office and examining room are on the same floor, and there is also a gallery for spectators in the west end.

The annex contains dressing rooms, lockers, sponge and shower baths and boiler room. Students can have the use of private lockers for a small fee.

The department is conducted upon strictly scientific principles. The Sargent chart system is used showing the relation of the individual in size, strength, symmetry and development to the normal standard of the same age.

Students may take the physical examination and have their deficiencies prescribed for, or may enter one of the regular classes.

The aims of physical training may be divided into two general classes:

1.—Those that have to do primarily with the body. These aims are: The symmetrical development of the body in size; the acquisition of muscular strength and general vigor; instruction how to control the body exactly, so that it can perform acts that require precision, endurance, quickness, and grace of movement; the training and development of each part of the body so that it performs all its proper functions at the right time and in the right way.

2.—Those aims which have to do primarily with the mind. These are physical judgment; that which enables man to use his strength in the most advantageous way. This calls for delicacy, accuracy, and quickness of the senses, particularly of sight, hearing, and touch. Bodily self-control, which enables a man to keep his head cool and to act carefully in dangerous positions. Physical courage, which comes partly from a knowledge of one's own

powers, and also, from the fact of having attacked and mastered difficult things. The habit of looking clearly and calmly at such feats and then carefully proceeding to master them. Determination and endurance or the capacity of long continued exertion, whether of mind or body.

The student electing these courses and continuing through the college years will find them an efficient aid to future efforts, both mental and physical. The work of the course is progressive, changing from year to year, so that students may begin at any time and find work suited to their physical condition.

When the weather is suitable the director encourages a moderate indulgence in healthful out-door exercises, such as rambling and tennis clubs afford.

The students maintain an athletic club, which encourages out-door athletics and is permitted by the faculty to participate to a certain extent in inter-collegiate sports.

Among the student organizations are three foot-ball teams, four tennis clubs, several basket-ball teams and a base ball club.

Women are admitted to separate classes in the physical department under the same conditions as men.

Seven courses forming a sequence are offered to students. Course 89 will not be offered after 1897-8; course 90 will be dropped after 1898-9 and course 141 after 1899-1900.

Medals are given by the director for proficiency in hand-ball, club-swinging and gymnastics.

ELOCUTION.

Professor Baright.

The aim of the work in this department is to emphasize the importance of the spoken word in education, and to cultivate a simple, natural and forcible manner of expression.

The object of all training of the body and voice must always be to make them better channels for the transmission of thought and feeling. The whole man should act, not only must he have "words that burn," but tones and inflections, movements and attitudes, which breathe and live with the deepest life of his soul.

With this end in view exercises are given to develop correct

control of the breath, strength, purity and flexibility of voice, poise, ease, repose and harmony of attitude; and consistent and appropriate gesture.

Selections from standard authors are memorized and after a private rehearsal are delivered in class.

Every student is expected to appear at least once a year in public work.

The following courses are arranged in the order in which they should be taken by students:

SECOND YEAR. 1.—Vocal Expression: Correct mental action in reading and speaking: Study of American poets. 2.—Vocal Training: Essential qualities of tone, ease and purity. 3.—Development of ease and repose in poise. Not to be offered after 1897-8.

Professor Baright. Given to second year literature class once in two weeks.

THIRD YEAR. 1.—Vocal Expression: Method in narration and description. Study of Lyrics and short poems. 2.—Vocal Training: Essential qualities of tone, openness and support. 3.—Elementary pantomime. Not to be offered after 1898-9.

Professor Baright. Given to third year literature class once in two weeks.

98.—ELOCUTION. 1.—Problems in vocal expression, study of miscellaneous selections. 2.—Vocal training, emission of tone. 3.—Development of poise, ease and responsiveness in the whole organization.

Professor Baright, 1 credit, 1-11 a. m. and 4-3 p. m.

99.—ELOCUTION. Open to students who have taken course 98. 1.—Purposes in vocal expression, tone-color, and movement, study of authors by practical rendering. 2.—Agility of voice. 3.—Laws of gesture and pantomime.

Professor Baright, 1 credit, 2-9 a. m. and 4-11 a. m.

100.—ELOCUTION. Open to students who have taken 98 and 99.—Principles of vocal expression, study of monologues and advanced recitations. 5.—Resonance and tone-color. 3.—Manifestive pantomime, development of unity in the body as an agent of the mind. 4.—Study and presentations of scenes from different forms of the drama to develop the powers of conception, and the ability to express every phase of human experience, as a

means of securing ease, simplicity and naturalness in all kinds of speaking.

Professor Baright, 1 credit,

1-8 a. m. and 3-2 p. m.

101.—ELOCUTION. Open to students who have taken 98, 99 and 100. 1.—A study of orations, extemporaneous speaking, methods of leading orators, debates. 2.—Advanced vocal training. 3.—Advanced pantomime, study of significant motions, positions, and special functions of each part of the body as an agent of the mind. 4.—General principles of Delsarte and Mackaye.

Professor Baright, 1 credit,

2-11 a. m.

Suggestions to Students.

Students who are working for a degree are advised to select their courses in each year from the following schedule. Courses enough to count 17 credits, should be chosen yearly. The prescribed courses are given elsewhere for each degree.

Freshman.—Ethnography, 148; Greek, 29; Latin, 21; Psychology, 155; Physics, 9; Pedagogy, 156; Biology, 103 and 67; Chemistry, 15; English Literature, 56; History, 63 and 62; Composition, 49; Hygiene, 91; German, 31; Calculus, 6; Surveying, 79; Elocution, 98; French, 36.

Sophomore.—Greek, 30; Latin, 22; Psychology, 154; Pedagogy, 72; Physics, 153; Biology, 68 or 145; Chemistry, 152; Rhetoric, 60; English Literature, 96; History, 127, 129 and 136; Composition, 50; Hygiene, 92; German, 32; Mathematics, 7; Astronomy, 73; French, 37; Elocution, 99.

Junior.—Geology, 16; Latin, 23; Logic, 157; Physics, 10; Biology, 69; Chemistry, 117; English Literature, 57; History, 128, 129 (continued), 130; Economics, 44; Composition, 51; Hygiene, 93; German, 33; Mathematics, 8 and 66; French, 38; Elocution, 100.

Senior.—Geology, 74; Latin, 24; Psychology, 45; Ethics and Logic, 137; Biology, 146 and 110; English Literature, 58 and 59; History and Economics, 81, 149, 65, 40; Composition, 51; Hygiene, 94; Philosophy, 151; Elocution, 101.

Courses not scheduled above which are described under the departments may be freely elected after consultation with advisers.

BUSINESS COURSE.

Dean Narregan.

The terms of admission are the same as to other departments. The object is to give students advanced practical training in the arts and principles of business with the literary cultivation necessary to every person who expects to win success as a reporter or typewriter. Students who finish the course and receive the diploma must be able to write and compose correct English; report ordinary discourse by shorthand notes and transcribe their notes with facility; and use the typewriter with speed and accuracy. Daily practice in shorthand and typewriting is required throughout the course. Details of office work like letter copying, use of duplicating machine, mailing circulars, etc., are taught by actual practice in the university offices. Students who complete this work satisfactorily receive a diploma from the university.

Schedule of Business Studies.

First Year. Commercial Correspondence, 3; Commercial Law, 1; Bookkeeping and Penmanship, 3; Commercial Arithmetic, 2; Shorthand and Typewriting, 5.

Second Year.—Commercial Correspondence, 2; Advanced Bookkeeping, 2; Commercial Law, 3; Shorthand and Typewriting, 5; Civil Service, 2.

Sufficient additional elective work will be required to earn 32 credits in all. Students must have 30 credits of preparation above the eighth grade branches to enter this course.

76.—BOOKKEEPING AND BUSINESS ARITHMETIC. *First Semester.* Theory and science of accounts, a working knowledge of the different forms of books of original entry; ledger posting and closing and making itemized accounts; the trial balance and different forms used; changing from single to double entry; changing from stock to partnership and reverse.

Second Semester. Actual business in commission, banking and merchandising.

ADVANCED COURSE. An advanced course in joint stock company, corporation, manufacturing, auditing and expert book-keeping is offered to those who complete the first year's work or have done the same amount of work in other schools.

Business arithmetic is a subject of constant study in this department, especially percentage, interest, discount, commission, brokerage, insurance, partial payments, equating of accounts, loss and gain, partnership settlements, and general average, with many useful hints, showing short methods and quick results.

76.—PENMANSHIP. A good handwriting is usually required as an accompaniment of skill in bookkeeping. There is no demand for bookkeepers who write a slow, stiff, cramped hand, and every facility is afforded the student for acquiring a plain, neat, rapid, commercial hand. Particular attention is given to position, movement and the formation of letters and figures; their size, slant, etc.

ADVANCED OR PROFESSIONAL COURSE. The advanced course offers instruction in business and ornamental writing, pen drawing, engrossing Old English, India ink shading, flourishing, marking, German text and fancy lettering, card writing and pen art.

41.—COMMERCIAL LAW. Instruction is given in this branch under the following heads: (1) The forms of business and mercantile contracts, such as deeds, bonds, mortgages, insurance policies, notes, negotiable and non-negotiable bills of exchange, checks, drafts, certificates of deposit and bills of lading. (2) The use and functions of such instruments. (3) The law governing them in actual circulation, and the liabilities to which they give rise.

The law of agency, common carriers, partnership, and simple methods of court procedure.

ADVANCED COURSE. The advanced course will give instruction on Real Estate Sales, Personal Property Transfers, Statute of Limitations, Statute of Frauds, Railway Law and Inter-state Commerce and the obligations of Commercial Paper applied to practical business affairs.

The text-book is supplemented with lectures and quizzes by the Dean, who is a lawyer, the commercial library and two journals, *The Law Student's Helper*, and *Business Law*.

The aim of the Commercial Law course is to furnish such instruction in the elementary principles of law as may properly form a part of the education of an American citizen.

153.—CIVIL SERVICE. This course aims to give the thorough and exact training necessary to pass the higher examinations for positions in the United States civil service.

95.—SHORTHAND (Pernin system.) The "Pernin" was awarded the medal and diploma at the World's Fair and has been adopted in over five hundred schools in the United States. Its distinctive advantages are: No position, no shading, connective vowels, and few word signs.

The school is distinct from almost all others where shorthand is taught, in that the pupil is prepared for all the duties of the shorthand amanuensis. High speed in office work is seldom required but absolute accuracy is demanded.

Shorthand, note taking and reporting speed practice, correspondence, dictation, spelling, grammar, punctuation and composition are so essential to stenographers that every student is required to take this study in the regular business course. Dictation and practical exercises are given daily to establish self-confidence on the part of the student and actual practice is given in the office of the university.

The time required to become a shorthand writer depends very much upon the ability and diligence of the student. A student of average ability by close application to study and practice, ought to be able to take letters from dictation or a slow speaker at the rate of 100 to 150 words per minute in from three to six months.

Typewriting is taught in daily lessons. Two to four weeks are required to thoroughly learn the fingering and become familiar with all parts of the machine. Students are then drilled in writing testimony, drawing legal documents, specifications, commercial correspondence and all forms of work usually done on a machine.

REQUIREMENTS FOR CERTIFICATES. The minimum requirement in shorthand is: One hundred words per minute from dictation of new matter, and a correct transcript. The minimum in typewriting is: Forty-five words per minute dictated from new matter, correct in form, spelling and punctuation.

MUSIC.

Director W. Gifford Nash.

The director studied the piano in Europe as a specialty. In Leipzig, Germany, he studied with Carl Beving in the Conserva-

torium, then with the celebrated teacher, Professor Martin Krause, for three years, and later with Julian Pas-cal of London, England. Good singing lessons can also be obtained in Eugene. Students in both these departments will have opportunities given them for practice in public work, in student recitals and on other public occasions connected with the university. It is also hoped that arrangements may be perfected whereby students from a distance may be furnished a piano for practicing, free of charge.

TERMS OF TUITION.

For piano lessons \$1.00 per lesson.

For singing lessons \$8.00 for twelve lessons.

For students making a specialty of music, classes in harmony will be formed, for which charges will be made according to size of class.

There is also in Eugene an Oratorio Society for practice in choral singing. Stainer's "Daughter of Gairus" will be produced this year, and next year one of the larger works of Handel or Mendelssohn will be studied. The officers of the society are: President, Rev. R. C. Brooks; Secretary, D. W. Coolidge; Director, W. Gifford Nash.

Lectures on different composers will also be given, illustrated with excerpts from their works by the students studying piano and singing.

Register of students in Piano department:—

GRADE I.—Miss Marie Bradley.....	Medford.
Miss May Stearns.....	Grants Pass.
GRADE II.—(a)Miss Anna Brooks.....	Somerville.
Miss Ada Hansen.....	Eugene.
Miss Clara Coleman.....	Coburg.
(b)Miss Dee Ankeny.....	Eugene.
Mr. Ed. Van Dyke.....	Grants Pass.
Miss Sybil Thurston.....	Eugene.
GRADE III.—(a)Miss Sadie Baum.....	Eugene.
Miss Ida Goodale.....	Coburg.
Miss Ermine Thompson.....	Eugene.
Miss Henrietta Lauer.....	Eugene.
Miss Theresa Friendly.....	Eugene.
(b)Miss Amy Dunn.....	Eugene.

The daily average of these grades is from one to two hours of practice.

GRADE IV.—(a)Miss Bertha Walter.....	Eugene.
Miss Mae Huff.....	Eugene.
Miss Bennetta Dorris.....	Eugene.
(b)Miss Dorothea Nash.....	Corvallis.
Mrs. F. L. Washburn.....	Eugene.

The daily average of this grade is from two to four hours of practice.

GRADE V.—Miss Joyce Brownell..... Albany.

GRADE VI.—.....

The daily average of these grades is from four to six hours of practice.

SCHOOL OF MINES AND DEPARTMENTS OF CIVIL AND ELECTRICAL ENGINEERING.

By order of the Board of Regents the following courses in Mining and in Civil and Electrical Engineering have been established in the University of Oregon, and are now offered to students. The courses are of a grade equal to any offered in America and are more complete and thorough than can be found in most western institutions.

The machine shop is well fitted with steam engines, dynamos, motors, lathes, and tools for practical work in Electrical, Civil and Mechanical Engineering.

The chemical laboratory is excellently arranged for individual work and well supplied with materials for analysis and assaying. The gas plant enables the university to make a special feature of blow-pipe analysis.

The great Condon cabinet, which is in the temporary possession of the university, gives facilities in geology and mineralogy which can not be too highly valued. This cabinet represents completely the mineralogy and geology of Oregon.

The physical laboratory is supplied with sufficient apparatus for

good work in elementary and advanced physics. The machine shop enables students to construct pieces of apparatus under the direction of the Professor of Physics, as they may be needed.

The following University teachers will have charge of the instruction in these courses:

President C. H. Chapman will lecture in the higher Mathematical courses.

Professor John D. Letcher will give the principal part of the instruction in pure Mathematics.

Professor Edgar McClure will give the principal part of the instruction in Chemistry.

Professor Charles Friedel will have charge of the instruction in Physics and the shop work in the Engineering courses.

Professor Thomas Condon will give the courses in Geology, and part of those in Mineralogy. The work in blow-pipe analysis will be under the direction of Professor McClure.

Associate Professor E. H. McAlister will give the courses in Civil Engineering and Surveying; also the courses in construction, timber work, etc.

Associate Professor E. H. McAlister will conduct the courses in Mechanical Drawing and Descriptive Geometry.

Ample rooms and facilities for these courses are being fitted up as rapidly as the resources of the university permit, and it is certain that students desiring to become Engineers can continue work next fall under excellent auspices.

Correspondence relating to these courses is invited from all persons who are interested in them. It is felt that they will add much to the usefulness of the State University and enable many of the youth of Oregon to obtain that advanced scientific training at home which they have hitherto been forced to look for in the East or in California.

The courses are all four years in length beginning with the Freshman year. This is necessary to make good engineers; and the university desires to graduate none but those who will be an inspiration to others and a credit to itself.

The preparatory work for the Mining and Engineering courses is the same as for the Scientific course in the university. It includes three years of Mathematics, two years of German and two years of French. There is also three years work in English composition and English literature. A course in general chemistry is also included in the sub-freshman work. Students must do all the sub-freshman work before being regularly admitted to the

Scientific courses, but parts of it may be made up while the student carries on such advanced studies as he is ready to undertake. As a general rule the university allows students to do any work which they can undertake with profit.

Each of the following courses leads to the degree B. S. The title of Mining Engineer, Civil Engineer or Electrical Engineer will also be conferred according to the courses which the student has taken, and will be inserted in his diploma.

Tuition free in all courses. Incidental fee \$10.00 per year.

COURSE IN MINES AND MINING ENGINEERING.

(The figures show the number of credits allowed.)

Two hours of laboratory, drawing or field work, count the same as one in the recitation room. The student is expected to earn seventeen credits each year.

Freshman Year.—Physics, 6; Calculus, 5; German, 3; Mechanical Drawing, 3; Practical Mechanics, 2.

Sophomore Year.—Descriptive Geometry, 2; Surveying, 3; Solid Analytical Geometry, 2; Determinants, Theory of Equations and Differential Equations, 5; Practical Mechanics, 4.

Junior Year.—Qualitative and Quantitative Analysis, 6; Graphic Statics, 2; Analytical Mechanics, 3; General Geology, 4; Ore Dressing, 2.

Senior Year.—Advanced Geology, 2; Blow-pipe Mineralogy, 2; Metallurgy, 2; Mining Engineering, 5; Thermodynamics, 3; Hydrdynamics and Rigid Dynamics. 3; Thesis.

COURSE IN CIVIL ENGINEERING.

(The figures show the number of credits allowed.)

Two hours of laboratory, drawing or field work count the same as one hour in the recitation room.

Freshman Year.—Physics, 6; Calculus, 5; German, 2; Mechanical Drawing, 3; Practical Mechanics, 2.

Sophomore Year.—Descriptive Geometry. 3; Surveying, 3; Solid Analytical Geometry, 2; Determinants, Theory of Equations and Differential Equations, 5; Practical Mechanics, 4.

Junior Year.—Higher Surveying, 3; Analytical Mechanics, 4; General Geology, 3; Graphic Statics, 2; Advanced Physics, 5.

Senior Year.—Advanced Geology, 2; Mineralogy, (Blow-pipe,) 2; Civil Engineering, 5; Railroads, Roads and Canals, 3; City and Sanitary Engineering, 2; Thermodynamics, 3; Thesis.

ELECTRICAL ENGINEERING.

The purpose of this department is to furnish not only special information relative to the theory of electricity and magnetism, but to provide, as well, a thorough practical training in the construction, use and management of the various machines and instruments in which electricity is either the product or the motive power. The course covers a period of four years and is an effort to unite general collegiate culture and thorough professional training. Since mathematics furnishes one of the best weapons for attacking electrical problems, practically as well as theoretically, a thorough acquaintance with some of the higher branches of this science is deemed essential for the successful completion of the course. This course is therefore liberally supplied with mathematical studies both pure and applied.

To furnish training towards the development of the mechanical skill necessary for the practical side of this course, the university has been provided with a machine shop, equipped with steam engines, lathes, saw-tables, etc., together with a liberal assortment of tools for work in both wood and iron, and instruction will be given in those branches of practical mechanics essential to the course.

The electrical engineering department proper will contain all the machines, instruments and apparatus necessary to the successful work in this course, viz: various forms of dynamos, motors, dynamometers, ammeters, voltmeters, transformers, accumulators, appliances for electric lighting, etc. The instruction furnished will pertain to the theory, management, testing, repairing, designing and actual construction of machines and instruments of the kind named.

The theoretical instruction in electrical measurements and engineering will be given in the form of lectures, supplemented by regular review recitations. The work of the laboratory will be based on Stewart and Gee's Elements of Practical Physics and Wiedemann and Eberts. In dynamo and motor designing and construction, the work will be largely based on Sylvanus Thompson's Dynamo Machinery.

Two hours of laboratory, drawing or field work count the same as one hour in the recitation room. The student is expected to earn seventeen credits each year.

(The figures show the number of credits allowed.)

Freshman Year.—Physics, 6; Calculus, 5; Solid Analytical Geometry, 2; Mechanical Drawing, 3; Practical Mechanics, 2.

Sophomore Year.—Descriptive Geometry, 3; German, 2; Determinants, Theory of Equations and Differential Equations, 5; Practical Mechanics, 4; Electrical Testing and Measurements, 3.

Junior Year.—Theory of Heat, 4; General Geology, 3; Technical Instruction, 5; Advanced Physics, 5.

Senior Year.—Dynamics, 3; Analytical Mechanics, 3; Technical Instruction, 6; Electricity and Magnetism, 5; Thesis.

DESCRIPTION OF THE STUDIES.

107.—PRACTICAL MECHANICS. Use of tools; shop work in wood, iron and brass; elements of construction.

Professor Friedel.

108.—PRACTICAL MECHANICS. Shop work; machine designing; testing materials.

Professor Friedel.

15.—QUALITATIVE AND QUANTITATIVE ANALYSIS. A course in Chemistry designed for practical purposes. It will fit those who take it for the actual chemical work involved in assaying and other mineralogical processes.

Professor McClure.

16.—GENERAL GEOLOGY. A descriptive course intended to impart a general idea of the science.

Professor Condon.

116.—ORE DRESSING. A course which treats of the preparation of ores for smelting, etc.

Professor McClure.

15.—MINERALOGY. Principally a course in blow-pipe analysis of ores.

Professor McClure.

118.—MINING ENGINEERING. A course in the practical construction of mining machinery, tunneling, timbering, draining, etc.

Associate Professor McAlister.

114.—THERMODYNAMICS. The theory of heat, with its practical application to the steam engine.

Professor Friedel.

14.—ADVANCED PHYSICS. A course in sound, heat, light, electricity and magnetism.

Professor Friedel.

77.—MECHANICAL DRAWING. Six hours per week. Text: Faunce. Description and use of instruments, geometrical problems, inking, tinting, orthographic projections, shadows, isometrical drawings, oblique projections, working drawings, blue print process.

Associate Professor McAlister.

78.—DESCRIPTIVE GEOMETRY. Six lessons per week. Text: Faunce. Point, line, plane, cylinder, cone, double curved surfaces of revolution, intersection of planes and solids, development of solids, intersection of solids, shades, shadows and perspective.

Associate Professor McAlister,

79.—SURVEYING. Three times per week. Recitations and field work. Text: Johnson, Theory and Practice of Surveying, Description, adjustment, and use of instruments; land surveying, laying out of public lands, leveling, plane-table surveying, determination of heights by aneroid and mercurial barometers, plotting and computations. Books of reference: Carhart, Gillespie.

Associate Professor McAlister.

80.—CIVIL ENGINEERING. Five times per week. Strength and resistance of materials, framed structures, roofs, bridges, etc., earthwork, excavations, embankments, cuts, drains, etc., masonry, walls, arches, piers, foundations, abutments, etc. Books of reference: Leuts, Rankine.

Associate Professor McAlister.

126.—HIGHER SURVEYING. Three times per week. Text: Johnson, Theory and Practice of Surveying, and Gore, Elements of Geodesy. Topographic, hydrographic, mining and geodetic

surveying, determination of time, longitude and latitude by astronomical observations.

Associate Professor McAlister.

112.—RAILROADS, ROADS, CANALS. Three times per week. Recitation and field work. Text: Searl, Field Engineer, and Byrne, Highway Construction. Railroad location and construction; canal construction, roads, streets, and pavements; cable and electric street railways.

Professor Letcher.

120.—GEOLOGY. Two times per week. Instruction in Economic Geology and Mineralogy, embracing the study of building materials, decomposition of rocks and production of soil; useful minerals, their occurrence in veins and beds; coal deposits, surface geology, and its application to engineering. The work in Mineralogy is mostly blow-pipe analysis.

Professor Condon.

113.—CITY AND SANITARY ENGINEERING. Two times per week. Sewers and sewerage, water supplies, municipal engineering, city surveying, pumping machinery, pavements.

Professor Letcher.

120, 122.—TECHNICAL INSTRUCTION IN ELECTRICITY AND MAGNETISM. Dynamo-electric machinery; central station design and management; recent applications of electricity.

Professor Friedel.

GRADUATE COURSES.

Beginning with the year 1897, the Master's degree will be granted to graduates of the university and other qualified persons on the following conditions:

They must take in the university and under the supervision of the faculty, one major and two minor courses which will be

equivalent to sixteen credits. At the end of the year they shall be examined in these courses by the professors who have charge of them; and if there are only two of these professors the president of the university shall appoint a third examiner.

Candidates for the Master's degree must make application for it on or before October first; must have a baccalaureate degree acceptable to the University of Oregon; must select a major and two minor subjects which shall be acceptable to the committee on studies; must earn eight credits in a major subject and eight in minors; must write a thesis acceptable to the professor having charge of the major subject, of which a typewritten copy shall be deposited in the library of the university; must pass a written examination, two-thirds of the questions being in the major subject; must reside at the university during the year of study; must pay the regular incidental fee of ten dollars which shall go to the library fund.

A candidate having complied with these conditions and successfully completed one year of study will receive the degree master of arts, master of science, or master of letters, according to his bachelor's degree.

Until further announcements are made candidates for the master's degree may select their major subjects, 8 credits, from any work not previously taken in the university; but it must all lie in the same department and must be approved by the head of that department.

In the department of Greek the choice is limited to courses 29 and 30 and graduates from other institutions must give evidence of having read the following or its equivalent:

Xenophon's *Anabasis*, four books; Homer, *Iliad* and *Odyssey*, each six books; Xenophon's *Memorabilia*, three books; Herodotus, one book; Demosthenes, *De Corona*; Aeschylus, *Prometheus Bound*; Sophocles, *Antigone*; and Aristophanes, *Clouds*.

This represents about 16 credits of work in the University of Oregon.

In Biology, in addition to the regular courses offered by the department, a candidate, who, by reason of previous work is deemed competent, may elect to do original investigation, under the instructor's direction. The subject of research is to be selected with the advice of the head of the department, and it is best to consult the latter some months in advance, in order to insure the presence of material for work.

In the department of Economics and History all of the courses offered are open to graduate students; but work done in

courses 44, 62, and 129 will not receive credit towards the requirements made for the Master's degree.

Students electing their major subject for an M. A. degree in the department of Physics will be permitted to earn eight of the required credits by taking course 10 as outlined in the schedule and carrying out in a satisfactory manner some definite piece of work of original investigation, depending in a measure upon individual tastes and capacity.

In the department of Metaphysics course 151 together with special work in some selected line of research will be accepted as a major during the year 1897-8.

In the department of English a major may be chosen from the following regular courses, 52, 58, 59, 158, on condition that equivalents for courses 51, 56 and 57 be offered.

Associate Professor McAlister announces the following graduate courses in Applied Mathematics:

159.—THE POTENTIAL FUNCTION. General theory of the potential function, with numerous practical applications. For students taking Astronomy as a major, the subject will be developed with special reference to the attraction of gravitation, other forces being made subsidiary, while students making Physics a major, by confining their attention largely to the forces which they expect to investigate, will find this course an advantage in enabling them to take up with less difficulty and more profit the mathematical theory of electricity and magnetism, and other branches of mathematical Physics. A knowledge of Differential and Integral Calculus, Differential Equations, and Composition and Resolution of Forces, is presupposed.
2 credits.

160.—THEORETICAL ASTRONOMY. Fundamental problems in Celestial Mechanics, including determination of the orbit of a heavenly body from given observed places; correction to be applied to the orbits; special perturbations; determination of the mass of a planet, etc. Various numerical examples will be presented for solution, and considerable attention will be devoted to the orbits of comets. As soon as practicable, the general course here outlined will be subdivided into several special courses, according to topics treated, so that students wishing to take astronomy as a minor may select work most in harmony with their major subject. A knowledge of Spherical and Descriptive Astronomy, Differential and Integral Calculus, Differential Equations, Solid Analytical Geometry, and the elements of Analytical Mechanics is required.

6 credits.

REGISTER OF STUDENTS.

COLLEGE OF LETTERS.

(The figures after the names show the number of credits to be earned, counting from the fall of '96. The letters show the degree or diploma sought.)

- Abbett, Earl Richard, Eugene, A. B., 130.
Ackerman, Lillian Inez, Portland, A. B., 37.
Adams, Agnes, Springfield, A. B., 44.
Adams, Percy P., Eugene, A. B., 34.
Adams, Ralph, Eugene, B. S., 124.
Adams, Waldo, Brookline, Mo., A. B., 123.
Alden, Harriette M., St. Paul, Eng., 47.
Alden, Ruth, St. Paul, Eng., 62.
Alderman, Lewis R., Dayton, Spec., 51.
Allaway, Dasie E., The Dalles, Spec., 85.
Angell, Homer Daniel, The Dalles, A. B., 78.
Ankeney, Dee, Jacksonville, Spec., 118.
Ankeney, Dolly, Jacksonville, A. B., 130.
Ankeney, Frank E., Jacksonville, 130.
Ankeney, Hanna, Jacksonville, 130.
Applegate, M. Lindsey, Klamath Falls, A. B., 58.
Auten, Mertie, Eugene, A. B., 114.
Bailey, Mattie, Prineville, 130.
Baird, Oscar E., Portland, A. B., 68.
Baker, Lilly, Troutdale, Spec., 130.
Baldwin, Augusta J., Eugene, B. S., 130.
Barbour, Eva, Happy Camp, Cal., A. B., 98.
Barber, John Raymond, Portland, A. B., 54.
Barbour, Mable Clare, Happy Camp, Cal., A. B., 113.
Barbour, Rosa, Happy Camp, Cal., A. B., 98.
Baum, Sadie, Eugene, B. S., 40.
Beall, Robert Vinton, Medford, B. L., 92.
Beattie, W. Gilbert, Oregon Cit., A. B., 92.
Beaudreau, Edwin, Ellensburg, Wash., Elective, 107.
Belling, Howard, Portland, A. B., 115.

- Benedict, Glenn, Eugene, C. E., 61.
Biehn, Louisa E., Klamath Falls, 115.
Billington, Frank E., Lafayette, Spec.
Bilyeu, Coke, Eugene, Spec., 126.
Bishop, Clarence M., Salem, B. S., 112.
Blundell, Nenn, Riddles, 130.
Boardman, V. E., Mitchell, B. S., 130.
Bollman, Lenthal A., Elmira, Lit., 130.
Bonney, Clyde T., The Dalles, A. B., 91.
Boone, Eugene, Riley, A. B., 54.
Booth, John M., Grants Pass, B. S., 101.
Booth, Rennie, Prineville, 130.
Boyd, William R., Klamath Falls, Bus., 27.
Bowman, Beulah, Lostine, Eng., 17.
Bradley, Lawson G., Medford, A. B., 57.
Bradley, Marie, Medford, B. L., 130.
Brower, Clarence C., Astoria, Spec.
Brooks, Anna, Summerville, Bus.
Brown, Belle, Eugene, A. B., Sen.
Brown, H. A., Portland, Spec.
Brown, Ralph A., The Dalles, B. S., 41.
Bryson, Roscoe S., Corvallis, A. B., 62.
Calef, Ada D., Eugene, Elective, 130.
Calef, Ida, Eugene, B. S., 96.
Calef, Ora, Eugene, B. S., 130.
Callison, Orange, Pleasant Hill, Eng., 110.
Callison, O. F., Pleasant Hill, Eng., 130.
Campbell, Geo. R., Enderby, C. E., 111.
Carleton, Edmund F., Lebanon, A. B., 113.
Carrico, James H., Oregon City, A. B., 52.
Carrol, W. T., Union, B. S., 112.
Case, Roy G., Newport, B. S., 109.
Cherry, H. D., Eugene, B. S., 109.
Cherry, Lloyd C., Eugene, B. S., 117.
Cheshire, Clive, Eugene, B. S., 130.
Church, Earl H., Eugene, A. B., Sen.
Cleveland, Alfred A., Astoria, A. B., 40.
Cleveland, Regina, Eugene, B. S., 99.
Coleman, Russell J., Salem, B. S., 115.
Collins, David, Independence, B. S., 130.
Coppie, R. A., Hood River, Spec., 130.
Cooper, Dorothy, Independence, A. B., Sen.

- Cooper, Pearl, Independence, B. S., 55.
Cornwall, Maud, Gardiner.
Cottle, Ethel W., Eugene, 130.
Craig, Ina L., Eugene, B. S., 130.
Craig, Lulu M., Eugene, Spec., 130.
Crawford, Elvin J., Eugene, A. B., 104.
Croxtton, Osyth I., Grants Pass, 115.
Dale, Dorothea P., Eugene, Spec.
Daly, Floyd, Dallas, A. B., 119.
Davidson, John H., Monmouth, Spec., 130.
Davis, Howard, Portland, A. B., 33.
Day, Mahlon H., Cresswell, A. B., 49.
DeLashmutt, Ivan, Portland, B. S., 58.
Denny, Edith M., McCoy, B. S., 45.
Densmore, Harvey B., Eugene, A. B., 130.
Dillard, Daisy, Eugene, 130.
Dillard, Walter Boone, Goshen, A. B., 65.
Douglas, Bert L., Pendleton, Spec., 104.
Douglas, G. M., Albany, Spec., 130.
Driver, Grace, Eugene, Spec., 113.
Dunn, Amy L., Eugene, Spec., 120.
Eastland, Rosetta, Eugene, A. B., 32.
Elhwegen, Eno V., Eugene, Spec., 114.
Elison, Edward J., Roseburg, B. S., 130.
Estes, Meda V., Baker City, B. S., 85.
Evenson, Clara Rosalia, Eugene, B. S., 113.
Farrington, Lincoln E., The Dalles, Sen.
Faulkner, Richard Walter, Roseburg, A. B., 130.
Ficklin, Mary, Union, B. S., 100.
Fisk, Fred, Eugene, A. B., Sen.
Flint, Jesse R., Eugene, Bus., 42.
Fogle, Clyde Van., Eugene, A. B., 59.
Ford, Burgess F., Eugene, A. B., 130.
Ford, Olin Fisk, Eugene, A. B., 130.
Fountain, Claude, Klamath Falls, Spec., 97.
Frazer, Arthur, Eugene, Bus., 42.
Fread, W. H., Marion, B. S., 130.
Friendly, Rosalie, Eugene, Spec.
Friendly, Theresa, Eugene, B. S., 32.
Gale, Lenore E., Olympia, Wash., Spec., 115.
Galloway, Chas. W., Oregon City, A. B., 62.
Gamber, J. Arthur, Lacombe, B. S., 108.

- Gardner, A. E., Drain, Spec.
Gibbs, Susie B., Eugene, B. S., 62.
Gilleland, A. L., Cottage Grove, A. B., 55.
Gilbert, Geo. W., Baker City, B. S., 51.
Gilfillan, M. Jessie, Union, B. S., 85.
Girdner, J. S., Artemus, Ky., Spec., 130.
Goldsmith, Zida, Eugene, B. S., 90.
Gorrell, Oscar, Jacksonville, B. S., 109.
Gray, Bruce, Prineville, Spec., 130.
Griffin, Lizzie, Eugene, A. B., 56.
Grimes, Anna, Harrisburg, B. S., 49.
Grimes, William, Harrisburg, B. S., 47.
Grimes, Zolo E., Harrisburg, B. S., 59.
Hager, J. Osman, Heppner, B. S., 91.
Hamaker, Guy, Klamath Falls, Bus., 27.
Hamaker, Roy, Klamath Falls, Spec., 115.
Hamilton, Theodosia, Creswell, Eng., 62.
Hammett, John H., Mohawk, Bus., 42.
Hammond, Bessie, Medford, B. S., 75.
Hammond, Jas. G., Eugene, Elect., 130.
Handsaker, John, Pleasant Hill, A. B., 113.
Hanna, Calvin B., Eugene, B. S., 95.
Hanna, Stuart B., Eugene, B. S., Sen.
Harding, Fred, La Grande, Bus., 16.
Harlow, Frank B., Eugene, Bus., 27.
Harris, Edith M., Eugene, B. S., 36.
Harris, M. Curtis, Eugene, A. B., 51.
Hatton, Geo. C. Klamath Falls, Bus., 27.
Hawthorne, Minnie, Eugene, B. S., 130.
Hawthorne, Wistar, Eugene, A. B., 109.
Hemenway, Ansel F., Springfield, B. S., 109.
Hemenway, May, Eugene, A. B., 109.
Hemenway, Minerva, Sprigfield, Elect.
Hemenway, O. E. D., Springfield, B. S., 58.
Hendricks, Ada D., Eugene, Sen.
Hendricks, Elma L., Eugene, B. S., 130.
Hendricks, Ruby V., Eugene, B. S., 130.
Hiatt, Arthur C., Baker City, C. E., 85.
Higgins, J. Lestine, Monmouth, A. B., Sen.
Hill, Julia Ava, The Dalles, B. S., 34.
Hodes, Walter, Eugene, Bus., 39.
Holbrook, Philo, Portland, B. S., 40.

- Hollis, Moody M., B. S., 93.
Holloway, Florence M., Fairmount, Elect.
Holt, V. L., Talent, A. B., 93.
Honeyman, David, Portland, A. B., 102.
Horn, Emma, Eugene, 130.
Hovey, Blaine, Eugene, B. L., 49.
Holman, Guy, Portland, Bus., 31.
Holmes, Andrew, Astoria, A. B., 68.
Howe, Oren P., Eugene, Spec., 112.
Howell, Clarence, Albany, B. S., 130.
Hudson, Florence, Tangent, 130.
Hulin, Mora A., Coburg, 130.
Hunt, Daisy D., Zena, Bus., 36.
Hurley, Roy H., Portland, Lit., 35.
Hursell, Alma, Portland, Eng., 47.
Inwall, Henry A., Irving, A. B., 109.
Jennings, Bessie M., Eugene, B. S., 130.
Johnson, Esther E., Eugene, Spec., 105.
Johnson Faith, Eugene, A. B., 130.
Johnson, Lydia, Salem, B. S., 115.
Johnson, William H., Jacksonville, B. S., 108.
Johnson, Lotta Clare, Eugene, A. B., Sen.
Keeney, Belle, Jasper, B. S., 130.
Keeney, Homer L., Eugene, A. B., Sen.
Kelley, Kate S., Springfield, A. B., Sen.
Kerns, Maud, Eugene, Spec., 56.
Kimbrell, Geary, Pendleton, B. S., 110.
Kinsey, Mae, Eugene, B. S., 130.
Kinsey, Ethel C., Eugene, B. S., 95.
Knox, Roy R., Cottage Grove, Bus., 24.
Kuney, Carl, Wasco, B. S., 114.
Kuykendall, D. V., Eugene, A. B., 39.
Kuykendall, Sibyl E., Eugene, A. B., 130.
LaDow, Emmet, Palouse, Wash., Spec.
Laird, Dora, Pleasant Hill, Eng., 43.
Laswell, Rossena, Autone, A. B., 127.
Lauer, Barbara, Eugene, A. B., Sen.
Lauer, Henrietta, Eugene, B. S., 32.
Lee, Myrtle, Independence, B. S., 130.
LeMasters, C. G., Amity, Spec.
Lewis, Orren, Portland, Bus., 42.
Lister, Ernest H., Grants Pass, A. B., 95.

- Lister, Arthur, Grants Pass, A. B., 130.
Livermore, Jessie, L., Eugene, B. S., 92.
Logan, Raymond W., The Dalles, 51.
Loomis, John L., Newport, B. S., 95.
Loucks, H. H., Ashland, Spec., 100.
Loveridge, Ruth, Eugene, B. S., 110.
Luckey, Pearl E., Eugene, B. S., 130.
Mann, Balm, Zena, A. B., 31.
Marsh, Mary E., Eugene, A. B., 52.
Martin L. C., The Dalles, A. B., 130.
Marx, Geo., Eugene, Eng., 52.
Matlock, Carrie, Eugene, B. L., Sen.
McAlister, Ella, Eugene, A. B., 110.
McAlister, Mary, Eugene, A. B., 51.
McArthur, Clifton N., Portland, B. S., 100.
McClaine, Minnie, Silverton, B. S., 130.
McClanahan, Ed. E., Eugene, Eng., 62.
McCornack, Condon C., Eugene, A. B., 100.
McElroy, Coleridge, Eugene, B. S., 130.
McFadden, Julian N., Corvallis, B. L., Sen.
McGee, Lela L., Burns, Eng., 62.
McGuire, Willis O., Eugene, 130.
McMurry, Frank, Eugene, Bus., 42.
McPherson, E. L., Spec.
McPherson, Kenneth H., Wasco, 124.
Miller, Anna L., Corvallis, A. B., Sen.
Miller, Harry E., Eugene, Bus., 42.
Miller, Mabel, D., Eugene, Spec., 130.
Miller, Minnie V., Eugene, Bus., 42.
Moore, C. F., Illinois, A. B., 106.
Moore, Lenore, Bridal Veil, B. S., 130.
Mount, Earl, Eugene, B. S., 121.
Mount, Grace, Eugene, B. S., 130.
Murch, Herbert, Coburg, A. B., 32.
Murray, Grace, Eugene, A. B., 48.
Narregan, L. C., Medford, B. L., 32.
Nash, John R., Halsey, B. S., 93.
Newsome, Gail S., Prineville, Spec., 112.
Newsome, John D., Prineville, 33.
Noffsinger, Ida, Eugene, A. B., Sen.
Osburn, F. Wayne, Eugene, B. S., 130.
Ostrander, G. H., Union, B. S., 96.

- Overton, O. P., Eugene, A. B., 33.
Palmer, Eulalia, Baker City, Eng., 17.
Parrott, Rosa Belle, Roseburg, Elect.
Pattee, Cora, Portland, A. B., 34.
Patterson, Elmer M., Portland, Spec.
Patterson, Harriette, Eugene, A. B., 130.
Patterson, John B., Eugene, 130.
Patterson, Katherine, Eugene, B. L., Sen.
Patterson, Percy J., Eugene, Spec., 130.
Pearl Elmer, Halsey, Bus, 42.
Pengra, Claud, A., Eugene, A. B., 130.
Pengra, Clara B., Eugene, B. S., 58.
Platts, John B., Eugene, B. S., 130.
Poill, Lulu, Springfield, 40.
Powers, Lew. A., McKenzie Bridge, Bus., 42.
Pritchard, Adelia, La Grande, A. B., 104.
Pritchett, Cora V., Eugene, B. S., 130.
Pritchett, Mary E. Eugene, B. S., 130.
Read, Lawrence, Sellwood, B. S., 61.
Read, Ora, Pleasant Hill. B. S., 110.
Reichman, Otto, Fort Jones, Cal., B. S., 121.
Renshaw, Lulu M., Eugene, A. B., 49.
Rice, Frances, Harrisburg, Eng., 62.
Richards, B. B., McCoy, A. B., 38.
Richardson, M. N., Scio, Spec., 129.
Rickel, Lyda, Eugene, Spec.
Robinson, Stella, Eugene, B. S., Sen.
Robley, Roy R., Ashland, C. E. 85.
Roe, Ida Bell, Eugene, A. B., Sen.
Ross, William Harrison, Lebanon, 85.
Sargent, Archie, Dexter, A. B., 109.
Scarbrough, Martin, Cresswell, A. B., 130.
Schwarzschild, Elsie, Eugene, Spec.
Schwarzschild, Julius, Eugene, A. B., 91.
Schwarzschild, Morris, Eugene, A. B., 96.
Scott, Leslie, Portland, A. B., 60.
Sears, Alfred F., Portland, A. B., 68.
Sears, Sadie, Ballston, B. S., 120.
Sears, Vestella B., Ballston, B. S., 120.
Seavey, Jesse Alexander, Eugene, Bus., 42.
Sechler, A. May, The Dalles, B. S., 85.
Senders, Harry A., Junction, B. S., 94.

- Sengstecken, Henry, Marshfield, B. S., 130.
Sheridan, O. P., Walker, A. B., 114.
Simmons, Mabel, Eugene, Eng., 43.
Slater, Bertha E., La Grande, Spec.
Smith, Alice M., Monmouth, Spec., 57.
Smith, Richard S., Klamath Falls, A. B., 115.
Sommer, Joseph, La Grande, Bus., 42.
Sommer, Julius, La Grande, Bus., 42.
Spencer, Bernard Earl, Ashland, B. S., 86.
Sperry, Paul C., Pilot Rock, Bus., 42.
Stalker, John L., Carson, C. E., 95.
Stalker, W. Hyde, Carson, A. B., 34.
Stalker, Walter R., Carson, B. S., 115.
Stearns, May, Oakland, A. B., 109.
Stearns, Roy, Oakland, A. B., 104.
Stephenson, Cecilia B., La Grande, Spec.
Stevens, Earl C., La Grande, Bus., 16.
Stevens Harley C., Oregon City, C. E., 114.
Stevenson, L. H., Halsey, A. B., 110.
Stewart, Grace, Prineville, Spec., 130.
Stockton, Fred, Ballston, B. S., 124.
Stockton, Holt, Ballston, B. S., 127.
Storaasli, Ole T., Silverton, A. B., 100.
Straub, Mary E., Eugene, A. B., 69.
Straub, Vincent J., Eugene, A. B., 54.
Stroud, Frank, Prineville, Spec.
Sutton, Ross, Bonanza, Spec.
Sweeney, Lillie, Loraine, B. S., 108.
Swift, Alice F., Pleasant Hill, Eng., 62.
Swift, Arthur, V., Baker City, A. B., 75.
Taylor, Blanche M., Eugene, B. S., 34.
Taylor, Harriett, Eugene, Spec.
Taylor, Lillie J., Cottage Grove, B. L., 116.
Templeton, Bertha, Halsey, B. S., 113.
Templeton, Charles, Halsey, Eng., 49.
Templeton, Fred M., Halsey, A. B., Sen.
Thompson, Ermine, Eugene, A. B., 123.
Thompson, Ethel, Eugene, 130.
Thompson, Mary J., Eugene, A. B., 53.
Thurston, Sybil, Eugene, B. S., 34.
Travis, Carl T., Eugene, A. B., 130.

- Travis, Ella T., Eugene, B. S., 130.
Travis, Lee M., Eugene, A. B., Sen.
Underwood, Margaret, Eugene, A. B., Sen.
Van Duyn, Owen M., Coburg, B. S., Sen.
Van Dyke, Edward S., Grants Pass, A. B., 88.
Van Winkle, J. Olin, Halsey, A. B., 111.
Veazie, Edith F., Dallas, A. B., Sen.
Wagner, Charles E., Ashland, C. E., 85.
Walton, E. Pauline, Eugene, B. S., 130.
Waltz, Arthur B., Baker City, A. B., 85.
Ware, Joel, Eugene, B. S., 130.
Warner, Beulah, Medford, A. B., 89.
Watkins, Eleanor, Eugene, A. B., 130.
Watkins, Florence D., Eugene, A. B., 31.
Watkins, H. M., Eugene, B. S., 89.
Watts, Charles, Eugene, Bus., 42.
Watts, M. L., Athena, A. B., 68.
Wheeler, Flora J., Eugene, B. S., 130.
Whipple, Bert J. Cheyenne, Wy., B. S., 116.
Whipple, Cyrus, Cheyenne, Wy., B. S., 105.
White, Frank P., Cottage Grove, A. B., 34.
White, Will J., Cottage Grove, A. B., 83.
Whiting, Ella, Burns, Eng., 62.
Whittlesey, Walter L., Hillsdale, A. B., 91.
Widmer, Geo. C., Eugene, Spec.
Widmer, Gertrude, D., Eugene, B. S., Sen.
Widmer, Margaret, Eugene, Spec.
Wilkins, Frank L., Eugene, Spec.
Wilkinson, Mettie L., Eugene, B. S., 93.
Williams, Howard S., Halsey, Spec.
Willoughby, Claire B., Eugene, A. B., 50.
Willoughby, Ray R., Eugene, Bus., 42.
Wilson, Kate, Springfield, Eng., 41.
Wilson, W. J., Springfield, Bus., 21.
Wold, Grace, Eugene, A. B., 92.
Wold, Irving, Eugene, A. B., 90.
Wood, Halley, Eugene, B. S., 105.
Woodson, Clinton E., Currinsville, A. B., Sen.
Wylie, Cora, Eugene, B. S., 90.
Yates, Joshua H., Irving, Bus., 42.
Young, Fannie, Eugene, Bus., 42.
Young, Pearl, Point Terrace, Bus., 42.

Young, Sigfried A., Astoria, A. B., 68.
 Young, Vinnie V., Oakland, A. B., 110.
 Young, William S., California, A. B., 34.
 Ziegler, Frederick J., Portland, B. S., 130.

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THE CLASS of '97.

Bell Brown, Eugene.	Julian N. McFadden, Corvallis.
Earl H. Church, Eugene.	Annie Laura Miller, Grants Pass.
Dora E. Cooper, Independence.	Ida Noffsinger, McCoy,
Lincoln E. Farrington, The Dalles.	Kate V. Patterson, Eugene.
Fred Fisk, Eugene.	Stella Robinson, Eugene.
Stuart Bates Hanna, Eugene.	Ida Belle Roe, Eugene,
Ada Dale Hendricks, Eugene.	Fred M. Templeton, Halsey.
Lotta Johnston, Eugene.	Lee M. Travis, Eugene.
J. L. Higgins, Monmouth.	Margaret Underwood, Eugene.
Homer I. Keeney, Halsey.	Owen M. Van Duyne, Coburg.
Kate Sheridan Kelley, Springfield.	Edith F. Veazie, Dallas.
Barbra Lauer, Eugene.	Gertrude Widmer, Eugene.
Carrie L. Matlock, Eugene.	Clinton E. Woodson, Currinsville.

SCHOOL OF LAW.

FACULTY.

C. H. CHAPMAN, PH. D.,
President.

HON. W. B. GILBERT,
Of U. S. Court of Appeals, Lecturer on Constitutional Law.

HON. L. L. MCARTHUR,

Formerly Judge of the Supreme Court of Oregon, Lecturer on Pleading.

HON. C. B. BELLINGER,

U. S. District Judge, Lecturer on Equity.

MR. RICHARD H. THORNTON,

Of the Oregon Bar, L. L. B. of Georgetown, Lecturer on the Common Law, the Law of Contracts, and the Law of Evidence.

The Law School is held in the city of Portland. The Lectures are delivered at 3:15 and 7:15 p. m., in the rooms of the Portland Business College. Lectures in the Junior year are on Tuesdays, Thursdays and Saturdays.

The entire course consists of two sessions of about thirty weeks each, from October to May inclusive. The next session opens on Wednesday, Sept. 29th, 1897.

The text-books in the Junior year are Blackstone, Kent, and Parsons on Contracts. In the Senior year, Gould on Pleading, Greenleaf on Evidence, Pomeroy on Equity, Cooley on Constitutional Limitations, and the General Laws of Oregon. "Cox's Questions" will be found useful in the work of the first year. The cost of Blackstone and the Question Book is \$12.50, and they may be had from the professor in charge.

The tuition fee is sixty dollars (in gold) per session, payable in equal installments on the 5th day of October, January and March. Regular attendance is necessary, and no deduction can be made on account of absence. The final examination fee (non-returnable) is ten dollars.

Applications for admission are to be addressed to

PROFESSOR RICHARD H. THORNTON,

Attorney at Law.

College Building, Portland, Oregon.

CLASS OF 1897.

W. P. Adams,
F. O. Burkhardt,
M. H. Carter,
O. D. Cochran,

H. E. Northup,
F. Olson,
L. L. Paget,
O. M. Rankin,

N. Conn,
C. W. Durette,
R. S. Farrell,
R. W. Galloway,
John Gebbie,
C. H. Gilbert,
C. M. Kahn,
J. C. Menzies,

Dexter Rice,
R. F. Robinson,
J. W. Rowland,
A. M. Shannon,
W. W. Sprout,
R. L. Stevens,
G. A. Wikander,
J. Van Zante.

CLASS OF 1898.

Geo. Black,
Jno. Brooke,
E. H. Cahalin,
A. B. Clymer,
J. D. Duback,
R. L. Dunn,
F. S. Felter,
G. P. Goggin,
L. A. Harlow,
A. H. McGowan,
C. E. Maybee,

J. O'Connor,
E. Rainford,
H. G. Rice,
F. J. Richardson,
C. Schuebel,
W. B. Singer,
L. H. Steinhart,
A. C. Wheeler,
C. U. Wilson,
L. Working.

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SCHOOL OF MEDICINE.

FACULTY.

C. H. CHAPMAN, Ph. D.,
President.

S. E. JOSEPHI, M. D.,
*Dean of the Faculty; Professor of Obstetrics and Psychological
Medicine.*

CURTIS C. STRONG, M. D.,

Secretary of the Faculty; Professor of Gynaecology and Clinical Obstetrics.

HOLT C. WILSON, M. D.,

Professor of Principles and Practice of Surgery and Clinical Surgery.

OTTO S. BINSWANGER, M. D.,

Professor of Chemistry and Toxicology.

K. A. J. MCKENZIE, M. D.,

Professor of Theory and Practice of Clinical Medicine.

RICHARD NUNN, M. D.,

Professor of General and Descriptive Anatomy.

J. F. BELL, M. D.,

Professor of Materia Medica and Therapeutics.

M. A. FLYNN, M. D.,

Professor of Physiology.

G. M. WELLS, M. D.,

Professor of Pædiatrics.

W. H. SAYLOR, M. D.,

Professor of Diseases of Genito-Urinary Organs and Clinical Surgery.

GENERAL INFORMATION.

The Medical Department of the University of Oregon recognizes the desirability of advancing the standard of medical education to a higher level and having already heretofore increased its requirements for graduation from two to three courses of lectures, now, in accordance with its intention, stated in the last catalogue, announces itself as a graded school occupying the ad-

vanced rank of those requiring from their students as a condition of graduation, attendance upon four full courses of lectures in a *regular* medical college.

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

The opening lecture of the eleventh regular annual session will be delivered at 9 a. m., Wednesday, October 6, 1897. 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.

LOCATION.

The new college building, located corner Twenty-third and Lovejoy streets, opposite Good Samaritan hospital, was completed and occupied during the session of 1892-93. It is a model of convenience, being furnished with all the aids to medical education which modern advancement requires.

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, containing 125 beds, and is rich in clinical material of all kinds. These two hospitals afford opportunities to the students of this college for variety of clinical work and instruction unsurpassed by anything on the Pacific Coast.

Their close proximity to the college clusters the buildings for both didactic and clinical instruction, so that the necessity for the student to travel long distances in order to properly carry on his work is overcome and thus much valuable time saved to him.

Hospital clinics (besides dispensary clinics) are held three days of the week during the session. Opportunities are given students to make diagnoses of diseases and prescribe treatment therefor; and operations of endless variety are performed (in pres-

ence of the class,) according to the most advanced methods of modern surgery.

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 for that purpose.

As has been done during past sessions, each senior student will be given an opportunity to attend and conduct, under proper supervision, cases of midwifery. This affords under-graduates a practical knowledge of midwifery, which must prove of great value in their future professional work.

COURSE OF STUDY.

First Year.—Anatomy, with dissections; Normal Histology, General Chemistry, Materia Medica and Pharmacy, Physiology. Examinations at end of year in Osteology and Syndesmology, Normal Histology, Principles of Chemistry, Elementary Materia Medica, Physiology (Prox. Principles and the Blood.)

Second Year.—Anatomy with the dissections, finished (except nervous system); Anatomy of Nervous System, Physiology, finished; Chemistry, with laboratory work, finished; Materia Medica and Therapeutics, finished; Microscopy and Histology, with laboratory work: Principles of Medicine, Pathology, Principles of Surgery and Bandaging, Elementary Gynæcology, Hygiene, Obstetrics (Pelvic Anatomy and Embryology), Physical Diagnosis. Examinations at end of year:—Anatomy (except nervous system); Physiology (final), Chemistry (final), Materia Medica and Therapeutics (final), Principles of Medicine, Principles of Surgery; Elementary Gynæcology, Pelvic Anatomy and Embryology.

Third Year.—Medical Jurisprudence, Theory and Practice of Medicine, General Therapeutics, Principles and Practice of Surgery and Bandaging, Military and Operative Surgery, Pathology with laboratory work, Pædiatrics. Hygiene, Anatomy of Nervous System, Gynæcology, Genito-Urinary Diseases, Physical Diagnosis, Ophthalmology and Otology, Obstetrics, Clinics, all; Microscopy, Histology and Bacteriology with laboratory work. Examinations in Principles of Medicine, Principles of Surgery, Pathology (final), Anatomy of Nervous System (final), Gynæcology, Physical Diagnosis, Obstetrics.

Fourth Year.—Medical Jurisprudence, Theory and Practice of Medicine, Principles and Practice of Surgery, Military and Operative Surgery; Clinics, all; Gynæcology, except elementary; Gen-

ito-Urinary Diseases, Ophthalmology and Otology; Obstetrics, except Pelvic Anatomy and Embrology, Microscopy and Bacteriology, with laboratory work; Pædiatrics, Insanity. Examinations:—Final in above.

All students are *privileged* to attend all didactic lectures, but only such as are laid down in the schedule are compulsory.

REQUIREMENTS FOR ADMISSION.

Students desiring to matriculate are required to undergo examination for admission, with the following exceptions, viz:

1.—Applicants who present certificates of having successfully passed the examination for admission to the College of Letters or of Science of the University of Oregon, or some other recognized university or college.

2.—Applicants who present diplomas or certificates of graduation from the University of Oregon, or of some other recognized university or college.

3.—Applicants who present diplomas or certificates of graduation from recognized high schools or academies.

4.—Applicants who present a teacher's certificate; granted by a recognized City, County or State Board of Examiners.

5.—Applicants who present a diploma or certificate of graduation from a state normal school.

6.—Applicants who have attended in the University of Oregon, or other recognized university or college, the required course to entitle them to enter as second year students in the curriculum of this school (see page 94.)

Applicants who do not comply with any of the above, will be required to pass a satisfactory examination in English branches, such as composition, spelling, writing, arithmetic (including simple fractions). A knowledge of physics and elementary Latin will also be required. Avery's Natural Philosophy, Peck's Ganot or Gage's Elements of Physics, and Smith's Principia Latina, Part I, will serve to show the amount required in the latter subjects. Students desiring to enter, and who are not prepared in Physics or Latin as above, may be allowed to matriculate upon condition that they shall present themselves and pass the examinations therein at the end of their first year. Special arrangements will be made for private tuition in these branches when desired. Graduates of other regular medical colleges in good

standing, where an entrance examination equivalent to our own is required, will be admitted as students of the fourth course in this institution without any examination.

EQUIVALENTS FOR FIRST YEAR.

In case the student does not spend his first year of the four years curriculum in a medical college, the first year may be spent in any one of the following ways:

1.—In the University of Oregon in the study of chemistry, physics, histology, osteology and physiology.

2.—In a recognized university or college where the above named subjects form part of the curriculum. A certificate from such a university or college that the applicant has passed a satisfactory examination in these branches, will exempt him from further examination in them for entrance as a second year student.

3.—Students who have passed one year in studying the above subjects under private tuition may present themselves to the Medical Department of the University for examination therein and if found proficient will be admitted as second year students, provided they pass the necessary preliminary examination. (See page 81). Certificates of private study under a physician or otherwise will not be accepted in lieu of examination.

4.—Graduates of recognized dental and pharmacy schools will be admitted to third year without examination, except the matriculation examination, provided they have conformed to the requirements for first and second years.

5.—Students holding tickets from other recognized medical colleges will receive proper credit for attendance and examinations and will be admitted to advanced standing accordingly. The preliminary examination of the college which issued the tickets must be equal to the requirements of this college, otherwise the matriculation examination lacking must be taken.

6.—Graduates of other regular medical colleges in good standing will be admitted as students of the fourth year.

By "*recognized*" is meant *recognized by this faculty.*

Under no circumstances will a student be credited with attendance upon two courses of lectures, unless such courses have been in different calendar years.

Diplomas from Homœopathic, Eclectic and other irregular schools of medicine will not be recognized.

Before admission, every student is required 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, and pay his fee. New students will be assigned seats in the order of the date of matriculation.

EXPENSES IN THE MEDICAL SCHOOL.

All fees are payable in advance.

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
\$3 00 deposit for laboratory breakage. (Returnable).	
One-quarter examination fee	7 50
Third Year: Fee for course	100 00
One-quarter examination fee	7 50
Fourth year: Fee for course	Free
One-quarter examination fee	7 50

To those entering beginning of second year (not having taken a course in this college):

Second year: Matriculation	\$ 5 00
Fee for course	130 00
\$3 00 deposit for laboratory breakage. (Returnable).	
One-third examination fee	10 00
Third year: Fee for course	130 00
One-third examination fee	10 00
Fourth year: Fee for course	30 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	50 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	100 00
Examination fee	30 00

HOSPITAL APPOINTMENTS.

Arrangements have been perfected by which the college has in its gift two appointments each year of house surgeons to the Good Samaritan hospital. The appointment is for one year, during which time board and lodging will be furnished free at the hospital. An excellent opportunity is thus afforded for the graduate to acquire in the wards of a well equipped hospital, without any expense, a practical knowledge by clinical experience and actual practice.

The house surgeons of St. Vincent's Hospital will also be supplied from the alumni of this college.

PRIZES.

SAYLOR MEDAL. The Saylor Gold Medal founded by Professor Saylor, will be awarded to the graduate passing the best examination in all branches.

KOEHLER MEDAL. The Koehler Gold Medal, founded by Dr. Geo. F. Koehler, will be awarded to the undergraduate who obtains the highest total mark in Anatomy in final examination in that branch. Provided such mark is obtained in the regularly appointed years for such examination. The medal will be presented to the winner only at the time of graduation from this college.

For full particulars address the Dean,

Dekum Block,

S. E. JOSEPHI, M. D.,
Portland, Oregon.

TEXT BOOKS FOR THE SCHOOL OF MEDICINE.

The following list of books is given as a guide to the student.

SUBJECT.	AUTHOR.	FOR REFERENCE.
Anatomy.	Gray.	Quain.
Physiology.	Dalton.	Kirke, Yeo, Foster, Flint.
Chemistry.	Fowne.	Attfield, Richter, Leffman, Sem- ple's Aids to Chemistry.
Materia Medica.	{ Potter. Bartholow	Nat. Disp., U. S. Disp., Ringer.
Surgery.	{ Bryant. Ashurst. Moullin.	Gross, Wyeht.
Theory and Practice.	{ Osler. Roberts. Loomis.	Pepper, Reynolds.
Diagnosis.	{ Loomis. Fenwick.	Gee.
Obstetrics.	{ Lusk. Leischman.	Amer. System of Obstetrics.
Diseases of Children.	{ Star. Smith.	Goodheat, Keating.
Gynæcology.	{ Thomas & Munde	Skene, Amer. System of Gynæ- cology.
Ophthalmology.	Juler.	Noyes, Buck.
Otology.	Roosa.	
Pathology and Histology.	Gibb.	Delafield & Prudden.
Laryngology.	Bosworth.	
Dermatology.	Duhring.	Hyde, Neuman.
Toxicology.	Taylor.	
Orthopædic Surgery.		Sayers.
Nervous Diseases.	M. Allen Starr.	Webber, Gowers.
Insanity.	Blanford.	Bucknill and Tuke.
Genito-Urinary Diseases.	Keys.	Bumstead, Otis, Thompson.
Medical Jurisprudence.	Taylor.	Tidy
Hygiene.	Rohe.	
Bacteriology.	Fraenkel.	

REGISTER OF STUDENTS IN THE SCHOOL OF MEDICINE.

3d and 4th Year.

Ruedy, A. H.,
 Rinehart, Belle C.,
 Bell, Clementine T.,
 Seaman, Clayton,
 Selover, F. E.,
 Strowbridge, Geo. H.,
 Fleckenstein, Henry,
 Sutcliffe, H. H.,
 Taylor, Charles E.,
 Johnson, H. C.,
 Tilzer, A.,
 McIntyre, A. J.,
 Littlefield, H. A.,
 Hoople, H. T.,
 Hamilton, W. S.,
 Grieve, M. B.,
 Arthur, Isabel,

Snape, G. H.,
 Skelton, Ida,
 Rosenberg, H. J.,
 Wade, Chas. E.,
 Cable, E. E.,
 Wiswall, R. D.,
 Job, B. R.,
 Marsh, Marriette,
 Harris, J. L.,
 Hawk, C. E.,
 Meesman, Otto,
 Brock, L. T.,
 Denny, M. J.,
 Buck, Louis,
 Kime, A. W.,
 Johnson, S. S.,
 Ward, Irving.

2d Year.

Bales, C. W.,
 Timms, Edna D.,
 Wiley, W. B.,
 Thayer, S. S.,
 Little, Eugenia G.,
 Roth, John B.,
 McKinley, C. R.,

Sedwick, A. B.,
 French, G. E.,
 Hegele, H. W.,
 Gray, Ethel L.,
 Gray, Kittie,
 Bernard, J. H.,
 Wiley, James,

1st Year.

Dobie, Harriett M.,
 Ashby, R. F.,
 McClure, Chas. E.,
 Holbrook, Millard,
 Petti, Jos. A.,
 McVicker, L.,
 Hedges, Fred R.,
 Hawk, Jeu,

Reams, F. D.,
 Settgest, F.,
 Merchant, E. B.,
 Conrardi, L. L.,
 Shane, Louisa,
 Wood, Joseph,
 Harvey, Lee B.,

Summary 63.

Grand Summary:

College of Letters, 370. (Not including Correspondence class.)
 School Of Law, 45.
 School of Medicine, 63.

Total, 478.

APPENDIX.

OFFICERS OF GOVERNMENT AND INSTRUCTION SINCE ORGANIZATION, 1873.

REGENTS.

Appointed.		Retired.
1873	HON. M. P. DEADY, L. L. D.,	Deceased, 1893
1873	HON. J. THOMPSON,	Deceased, 1863
1873	HON. T. G. HENDRICKS,	Resigned, 1897
1873	HON. GEORGE HUMPHREY,	Resigned, 1870
1873	HON. J. J. WALTON,	1882
1873	HON. B. F. DORRIS,	1882
1873	HON. W. J. J. SCOTT,	1887
1873	HON. L. L. McARTHUR,	....
1873	HON. R. S. STRAHAN,	1882
1877	DR. S. HAMILTON,	....
1879	REV. E. R. GEARY, D. D.,	Deceased, 1887
1882	HON. HENRY FAILING,	....
1882	HON. A. BUSH,	....
1882	HON. RODNEY SCOTT,	1893
1882	HON. R. S. BEAN. B. S., L. L. D.,	1895
1887	HON. C. C. BEEKMAN,	....
1863	HON. A. G. HOVEY,	....
1893	HON. J. J. WALTON,	1895
1895	HON. S. H. FRIENDLY,	....
1895	HON. S. P. STURGIS,	Deceased, 1896
1896	HON. CHAS. HILTON,	....
1897	HON. C. B. BELLINGER,	....

PRESIDENTS OF THE BOARD.

1873	HON. M. P. DEADY, L. L., D.,	Deceased, 1893
1893	HON. HENRY FAILING,	

SECRETARIES.

1873	HON. J. J. WALTON,	
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TREASURERS.

1873	HON. J. H. MCCLUNG,	1878
1878	HON. B. F. DORRIS,	1883
1883	HON. A. G. HOVEY,	

EXECUTIVE COMMITTEES.

1876	HON. T. G. HENDRICKS,	Resigned, 1897
1876	HON. W. J. J. SCOTT,	Resigned, 1876
1876	HON. J. M. THOMPSON,	Deceased, 1882
1876	HON. B. F. DORRIS,	1882
1882	HON. R. SCOTT,	1893
1882	HON. R. S. BEAN,	Resigned, 1893
1892	HON. A. G. HOVEY,	....
1893	HON. J. J. WALTON,	1895
1895	HON. S. H. FRIENDLY,	....

LIBRARIANS.

1885	PROF. MARK BAILEY,	1891
1891	MISS DORA SCOTT,	

CURATOR OF MUSEUM.

1887	PROF. J. B. HAWTHORNE,	
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PRESIDENTS.

Elected.		
1879	PROF. J. W. JOHNSON, A.M.,	Resigned, 1893
1893	C. H. CHAPMAN, PH., D.	

PROFESSORS.

Elected		Retired
1876	J. W. JOHNSON, A. M.,	
	<i>Professor of Latin.</i>	

APPENDIX.

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1876	THOMAS CONDON, PH. D., <i>Professor of Geology.</i>	
1876	MARK BAILEY, PH. D., <i>Professor of Mathematics and Astronomy.</i>	1895
1879	MARY P. SPILLER, <i>Professor of Elocution and Principal of Prep. Department.</i>	Resigned, 1888
1879	T. M. GATCH, A. M., <i>Professor of History and English Literature.</i>	Resigned, 1881
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1882	CHARLES E. LAMBERT, A. M., <i>Professor of Mental Philosophy and English Literature.</i>	Resigned, 1884
1884	BENJAMIN J. HAWTHORNE, A. M., <i>Professor of Psychology.</i>	
1888	LUELLA C. CARSON, A. M., <i>Professor of Rhetoric and English.</i>	
1892	EDGAR MCCLURE, A. M., <i>Professor of Chemistry.</i>	
1894	H. Lee MITCHELL, <i>Principal of Business Department.</i>	1895
1894	J. R. WETHERBEE, <i>Director Physical Education.</i>	Resigned, 1897
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1895	F. L. WASHBURN, A. M., <i>Professor of Biology.</i>	

1895	JOHN D. LETCHER, <i>Professor of Mathematics.</i>	
1895	N. L. NARREGAN, <i>Dean of Preparatory Department.</i>	.....
1895	MARIE L. BARIGHT, <i>Professor of Elocution.</i>	
1896	E. H. MCALISTER, A. B., <i>Associate Professor of Applied Mathematics.</i>	

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1882	E. E. BURKE, A. B.,	Deceased, 1883
1883	ANDREW GANTENBEIN,	1884
1884	B. B. BEEKMAN, A. M.,	Resigned, 1885
1883	A. C. WOODCOCK, A. B.,	Resigned, 1887
1887	FRANK A. HUFFER, A. B.,	Resigned, 1891
1887	EDGAR MCCLURE, A. M.,	Elected Prof., 1872
1890	PHILURA E. MURCH, A. M.,	.....
1891	E. H. MCALISTER, A. B.,	Elected Prof., 1896
1893	T. M. ROBERTS, A. B.,	1894
1894	ELLEN CONDON MCCORNACK,	1895
1895	INEZ DELASHMUTT, A. B.,	

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1886	D. W. COOLIDGE, <i>Professor and Director.</i>	Resigned, 1888
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1882	LOUISE SAWYERS-LINN,	1895
1892	ELIZABETH SAWYERS, B. M.,	1895
1895	R. P. BAKER, <i>Professor of Music.</i>	Resigned, 1896
1896	W. GIFFORD NASH, <i>Director.</i>	

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