

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF THE

UNIVERSITY OF WISCONSIN,

For the Year 1872-73 and the First Term of 73-74.

MADISON WIS.:

NOV. 1873.

FACULTY AND INSTRUCTORS.

J. H. TWOMBLY, D. D.,

President and Professor of Mental and Moral Philosophy.

JOHN W. STERLING, PH. D.,

Vice-President and Professor of Mathematics and Astronomy.

WILLIAM F. ALLEN, A. M.,

Professor of Latin and History.

STEPHEN H. CARPENTER, LL. D.,

Professor of Logic, Rhetoric and English Literature.

ALEXANDER KEIR, A. M.,

*Professor of Greek Language and Literature,
and Principal of Preparatory Department.*

JOHN B. FELLING, PH. D.,

Professor of Modern Languages and Comparative Philology.

WILLIAM J. L. NICODEMUS, A. M. C. E.

Professor of Military Science and Civil Engineering.

JOHN B. PARKINSON, A. M.,

Professor of Civil Policy and International Law.

JOHN E. DAVIES, A. M., M. D.,

Professor of Natural History and Chemistry.

W. W. DANIELLS, M. S.,

Professor of Agriculture and Analytical Chemistry.

ROLAND IRVING, A. M., E. M.,

*Professor of Geology, Mining and Metallurgy,
and Curator of Cabinet.*

HON. L. S. DIXON, LL. D.,

Chief Justice of the Supreme Court of Wisconsin.

Professor of Law.

HON. ORSAMUS COLLE, LL. D.,

*Associate Justice of the Supreme Court of Wisconsin.
Professor of Law.*

UNIVERSITY OF WISCONSIN.

HON. WILLIAM PENN LYON, LL. D.,
Associate Justice of the Supreme Court of Wisconsin.
Professor of Law.

HON. H. S. ORTON, LL. D.,
Professor of Law.

HON. P. L. SPOONER,
Dean of Law Faculty.

J. H. CARPENTER, Esq.,
Professor of Law.

WILLIAM F. VILAS, LL. B.,
Professor of Law.

R. B. ANDERSON, A. M.,
Instructor in Languages.

ROBERT HENRY BROWN, PH. B.,
Instructor in English.

JAMES WHITFORD BASHFORD, A. B.,
Instructor in Greek and English.

MRS. D. E. CARSON,
Preceptress.

MISS JOSEPHINE MAGOON,
Assistant Preceptress.

MISS LIZZIE S. SPENCER, PH. B.,
Teacher of English.

MISS AUGUSTA BÜTTNER,
Teacher of French and German.

*MISS ELLA F. SAGE,
Teacher of Instrumental Music.

MISS. SUE R. EARNEST,
Teacher of Instrumental Music.

MISS MARY C. WOODWORTH,
Teacher of Vocal Music.

*MISS ANNIE CUSHMAN,
Teacher of Drawing and Oil Painting.

* Resigned, June, 1873.

I. COLLEGE OF ARTS.

The College of Arts is organized under the following section of the General Laws of 1866, Ch. CXIV:

SECTION 2. The College of Arts shall embrace courses of instruction in the mathematical, physical and natural sciences, with their application to the industrial arts, such as agriculture, mechanics and engineering, mining and metallurgy, manufactures, architecture and commerce, in such branches included in the College of Letters as shall be necessary to a proper fitness of the pupils in the scientific and practical courses for their chosen pursuits, and in military tactics; and as soon as the income of the University will allow, in such order as the wants of the public shall seem to require, the said courses in the sciences and their application to the practical arts, shall be expanded into distinct colleges of the University, each with its own faculty and appropriate title.

The plain object of this section is to provide, not only for a general scientific education, but also for such a range of studies in the *applications of science* as to meet the wants of those who desire to fit themselves for agricultural, mechanical, commercial, or strictly scientific pursuits. The courses of study are such as to provide a sound education in the elements of science, and at the same time to give great freedom in the selection of studies according to the choice of the individual student. As higher demands are made they will be met by adding to the list of elective studies, and by the enlargement of the Faculty of Arts, so as to form distinct colleges, as provided for in the act of reorganization.

This College embraces the Departments of General Science, Agriculture, Civil Engineering, Mining and Metallurgy, and Military Science.

DEPARTMENT OF GENERAL SCIENCE.

Freshman Year.

FIRST TERM.

Mathematics—Higher Algebra. Loomis.

English—Mulligan's Structure of the English Language.

French—Otto's Conversation Grammar, or

German—Comfort's German Course.

Optional—Scandinavian.

SECOND TERM.

Mathematics—Solid Geometry. Loomis.

English—Carpenter's English of the XIV Century.

French—Otto's Grammar and Reader, or

German—Comfort's German Course.

Optional—Scandinavian.

THIRD TERM.

Mathematics—Plane and Spherical Trigonometry.

Botany—Gray's Manual.

French—Otto's Grammar and Reader, or

German—Comfort's Grammar and Whitney's Reader.

Themes and Declamations throughout the course; also, French and German Composition.

Sophomore Year.

FIRST TERM.

Surveying, Navigation.

Conic Sections and Analytical Geometry—Loomis.

Crystallography.

English Literature—Shaw's Complete Manual.

French—Select Prose and Poetry; or

German—Whitney's Grammar and Reader.

SECOND TERM.

Zoology—Nicholson.

Analytical Geometry—Loomis.

French—Select Prose and Poetry; or

German—Whitney's Grammar and Reader.

THIRD TERM.

Calculus—Loomis.

Zoology—completed.

French—Racine—Oeuvres choisies; or

German—Schiller's William Tell.

Lectures—History.

Junior Year.

FIRST TERM.

Mechanics—Snell and Lectures.

Chemistry—Elliot and Storer. Lectures.

Rhetoric—Bain and Lectures.

SECOND TERM.

General Physics—Snell and Lectures.

Chemistry—Fownes and Lectures.

History—Hallam's Middle Ages.

THIRD TERM.

Astronomy—White.

Mineralogy.

Analytical Chemistry.

Senior Year.

FIRST TERM.

Mental Philosophy—Porter and Lectures.

Political Economy—Walker and Lectures.

Logic—Inductive, Fowler.

Aesthetics—Bascom and Lectures.

Lectures—Science of Language.

Optional—Metallurgy, Assaying.

SECOND TERM.

Moral Philosophy—Hopkins.
Logic—Deductive, Jevons and Lectures.
Geology—Dana and Lectures.
Lectures—International Law.

THIRD TERM.

Natural Theology.
Constitutional Law—Story and Lectures.
Paleontology.
Lectures—History of Civilization.
Optional—Economic Geology.

DEPARTMENT OF AGRICULTURE.

It is the design of the University to give in this Department a thorough course of scientific instruction, in which the leading studies shall be those that relate to agriculture. The instruction in this course will be thorough and extensive, and will be given with constant reference to its practical applications, and the wants of the farmer.

The University farm is used to aid this department the conducting experiments in Agriculture and Horticulture.

Students can enter this, as all other departments of the University, at any time upon examination, can pursue such studies as they choose, and receive a certificate of attendance.

The analytical laboratories are connected with this department.

Freshman Year.

Same as the course in the Department of General Science.

Sophomore Year.

In addition to the studies of the course in the Department of General Science, candidates for this course will take drawing two hours a week.

COLLEGE OF LETTERS.

COURSE IN ANCIENT CLASSICS.

This course embraces the Ancient Classics, Mathematics, Natural Science and English Literature, and is intended to be fully equivalent to the regular course in the best classical colleges in the country.

While great care is taken by the authorities of the University to furnish young men with the means of obtaining a thorough preparation for the various departments of business, those studies which enable the student to secure the treasures of ancient wisdom and bring him into sympathy with the great thinkers of past ages will receive a requisite share of the time of instructors and students.

Freshman Year.

FIRST TERM.

Mathematics—Higher Algebra. Loomis.
Latin—Livy and Latin Composition.
Greek—Homer's Iliad, Grammar and Composition.
Optional—Scandinavian.

SECOND TERM.

Mathematics—Solid Geometry. Loomis.
Latin—Cicero de Officiis. Composition.
Greek—Herodotus. Grammar and Composition.
Optional—Scandinavian.

THIRD TERM.

Mathematics—Plane and Spherical Trigonometry.
Botany—Gray's Manual.
Greek—Thucydides. Grammar and Composition.
Themes and Declamations throughout the course.

Sophomore Year.

FIRST TERM.

*Surveying and Navigation.**Conic Sections.*—Ioomis.*Crystallography.**English Literature*—Shaw's Complete Manual.*Latin*—Horace.*German*—Comfort's Course.

SECOND TERM.

Zoology—Nicholson.*Latin*—Horace.*German*—Comfort's Course.

THIRD TERM.

Latin—Tacitus.*Greek*—Æschylus, Prometheus, Goodwin's Moods and Tenses.*German*—Comfort's Course.

German Composition throughout the year.

History.—Lectures*Junior Year.*

FIRST TERM.

Mechanics—Snell and Lectures.*Chemistry*—Elliot and Storer, Lectures.*Rhetoric*—Bain and Lectures.*Greek*—Demosthenes on the Crown. Greek Syntax.*Optional*—Historical Geography.

SECOND TERM.

General Physics—Snell and Lectures.*History*—Hallam's Middle Ages.*Greek*—Plato, Apology and Crito.

THIRD TERM.

Astronomy—White.*Latin*—Quintilian or Juvenal.*Comparative Philology*—Whitney and Lectures.*Optional*—The Roman Constitution. Deutsche Literaturgeschichte.

Senior Year.

FIRST TERM.

Mental Philosophy—Porter and Lectures.
Political Economy—Walker and Lectures.
Logic, Inductive—Fowler.
Æsthetics—Bascom and Lectures.

SECOND TERM.

Moral Philosophy—Hopkins.
Logic, Deductive—Jevons and Lectures.
Geology—Dana and Lectures.
International Law—Lectures.

THIRD TERM.

Natural Theology—Chadbourne.
Constitutional Law—Story.
Rhetoric—Day's Art of Discourse, (Invention).
History of Civilization—Lectures.

COURSE IN MODERN CLASSICS.

In this course German and French take the place of Greek. The studies are so arranged as to give students a good knowledge of literature and such an acquaintance with the Language as will fit them to engage in the duties of instruction or to prosecute, to advantage, professional studies.

Freshman Class.

FIRST TERM.

Mathematics—Higher Algebra, Loomis.
Latin—Literary and Latin Composition.
German—Comfort's Course, or
French—Otto's Conversation Grammar.
Optional—Scandinavian.

SECOND TERM.

Mathematics—Solid Geometry, Loomis.
Latin—Cicero de Officiis. Composition.
German—Comfort's Course, or
French—Otto's Grammar and Reader.
Optional—Scandinavian.

THIRD TERM.

Mathematics—Plain and Spherical Trigonometry.
Botany—Gray's Manual.
German—Comfort's Grammar, Whitney's Reader, or
French—Otto's Grammar and Reader.
 Themes and Declamations throughout the course, also French and German Composition.

Sophomore Year.

FIRST YEAR.

Surveying, Navigation.
Conic Sections—Loomis.
Crystallography.
English Literature—Shaw's Complete Manual.
Latin—Horace.
German—Whitney's Grammar and Reader; or
French—Select Prose and Poetry.

SECOND TERM.

Zoology—Nicholson.
German—Whitney's Grammar and Reader; or
French—Select Prose and Poetry.
Latin—Horace.

THIRD TERM.

Latin—Tacitus.
Anglo-Saxon—March.
German—Schiller's William Tell; or
French—Racine.
History—Lectures.

Junior Year.

FIRST TERM.

Mechanics—Snell and Lectures.
Chemistry—Elliot & Storer. Lectures.
Rhetoric—Bain and Lectures.
German—Lessing's Minna von Barnhelm, or
French—Moliere, Le Misanthrope,
 Optional—Historical Geography.

SECOND TERM.

General Physics—Snell and Lectures.
History—Hallam's Middle Ages.
German—Goethe's Faust, or
French—La Littérature Française Classique.

THIRD TERM.

Astronomy—White.
Latin—Quintilian or Juvenal.
Comparative Philology—Whitney and Lectures.
 Optional—The Roman Constitution, Deutsche Literaturgeschichte, or
 La Grammaire Historique de la Langue Française.

Senior Year.

FIRST TERM.

Mental Philosophy—Porter and Lectures.
Political Economy—Walker and Lectures.
Logic, Inductive—Fowler.
Aesthetics—Bacon and Lectures.

SECOND TERM.

Moral Philosophy—Hopkins.
Logic, Deductive—Jevons and Lectures.
Geology—Dana and Lectures.
International Law—Lectures.

THIRD TERM.

Natural Theology—Chalbourne.
Constitutional Law—Story and Lectures
Rhetoric—Day's Art of Discourse, Invention.
History of Civilization—Lectures.

FEMALE COLLEGE.

The course of study in this college is the same as that in the Department of General Science, College of Arts, with the following substitutes allowed:

In place of Surveying, Navigation, Agriculture, Analytical Geometry, and the Calculus, of the *Sophomore Year*; and in place of Chemistry and Analytical Chemistry of the *Junior Year*, Latin or Drawing may be substituted.

Ladies are permitted to pursue any course or elective study in the University, when preferred, and the same degree is conferred upon them as upon the gentlemen for the satisfactory completion of any course of study.

Students who do not desire to graduate may enter at any time, and take any study of the term which they are prepared to prosecute to advantage.

The Ladies' Hall, erected by the munificence of the State, is an elegant and commodious building. It contains a chapel, teachers' rooms, recitation rooms, study and lodging rooms for about eighty students, and ample accommodations for boarding.

Students' rooms are neatly carpeted and furnished with heavy furniture. Occupants will be expected to provide the toilet sets needed in their rooms; also, towels, napkins, sheets, pillowcases, blankets and counterpanes, all of which should be plainly marked with the name of the owner.

Students occupying this building are under the immediate charge of the preceptress, who, with her associate teachers, gives constant attention to the manners and general conduct of the pupils.

Competent and successful teachers give instruction in instrumental and vocal music.

The department of Boarding is under the direction of an experienced and efficient Matron, whose excellent character, business tact, and kind attentions to the young ladies evince peculiar fitness for her position. Ladies occupying rooms in the building are required to board with the Matron.

It is the design of the Regents and Faculty of the University to furnish young ladies with the means of securing an education as thorough and finished as can be obtained at any other institution in the country. To accomplish this object all available resources will be employed.

Sub-Freshman Class.

For the purpose of securing a thorough preparation for the course in Ancient Classics, College of Letters, the following course has been arranged in Latin and Greek:

FIRST YEAR.

Latin—Leighton's Lessons, Allen and Greenough's Grammar and Selections, (Cæsar, Curtius, Nepos and Sallust. 134 pages).

Greek—Leighton's Lessons, Goodwin's Grammar and Reader (Xenophon).

History—Thalheimer's Ancient History.

SECOND YEAR.

Latin—Cicero's Select Orations (8), Virgil's *Æneid* (6 books), Allen's Composition (35 lessons), Grammar.

Greek—Goodwin's Reader (Xenophon and Herodotus, 155 pages). Homer's *Iliad* (2 books), Arnold's Composition, (33 exercises), Grammar.

Preparatory Department.

The studies of this department are arranged with special reference to the accommodation of students who desire a suitable preparation, in English, to enter the College of Arts, the Female College, or the Sub-Freshman Class of the College of Letters.

UNIVERSITY OF WISCONSIN.

Those who enter this Department are subject to the same rules as college students.

FIRST TERM.

History of England—Anderson.
Sentential Arithmetic—Greene.
Elementary Algebra.

SECOND TERM.

Physical Geography.
Natural Philosophy.
Elementary Algebra—continued.

THIRD TERM.

Psychology.
Higher Algebra—Loomis.
Plane Geometry—Loomis.

POST-GRADUATE COURSE.

Bachelors of Art, Science and Philosophy, will be admitted to the University as candidates for an appropriate degree. They must devote two years to study under the direction of the President and Faculty, and pass a satisfactory examination before the Board of Examiners appointed by the Regents.

The studies are optional; but they must be selected from at least two sections, and the studies in some one section must be continued during the whole course.

The object of this course is to secure a higher grade of scholarship in Literature and Science than it seems possible to attain in the present state of our colleges, under the ordinary class-system.

COURSE OF INSTRUCTION.

SECTION I. *Philosophy and History.*

History of Philosophy.
History and Archæology.
International Law and Jurisprudence.
Critical Study of English Literature.

II. *Philology.*

Sanskrit—Anglo-Saxon.
Ancient and Modern Classic Languages.
Comparative Grammar.
Science of Language.

III. *Mathematics and Physics.*

Calculus of Variations.
Analytical Mechanics.
Dynamical Theory of Heat, Light, etc.
Practical Astronomy and Geodesy.

SECTION IV. *Natural History.*

Botany.
Zoology.
Comparative Anatomy.

V. *Natural Sciences.*

Mineralogy.
Geology.
Chemical Philosophy and Analysis.

VI. *Applied Sciences.*

Mining Engineering.
Civil Engineering.
Mechanical Engineering.
Architecture.
Chemical Technology.
Metallurgy.
Economic Geology.

LECTURES.

In addition to the lectures given in connection with the recitations, some subjects are taught entirely by lectures, the students being required to take notes, and to recite upon the lectures as from a text book.

The following are the regular courses of lectures:

To the SENIOR CLASS, on Mental and Moral Philosophy, by the President; on English Literature, Rhetoric and Logic, by Prof. Carpenter; on History, by Prof. Allen; on Political Economy, Civil Polity and International Law, by Prof. Parkinson; on Geology and Economic Geology; on Mining Engineering, and on Metallurgy, by Professor Irving.

To the JUNIOR CLASS, on Chemistry, by Prof. Davies; on History, by Prof. Allen; on Mechanics, Physics and Astronomy,

by Prof. Sterling; on Rhetoric and English Composition, by Prof. Carpenter; on Analytical and Applied Chemistry, by Prof. Daniells; on Metallurgy and Assaying, by Prof. Irving, and on Comparative Philology, by Prof. Feuling.

To the SOPHOMORE CLASS, on Comparative Anatomy and Physiology by Prof. Davies; on History, by Prof. Allen; on Agriculture, by Prof. Daniells.

To the FRESHMAN CLASS, on the Laws of Health and Methods of Study, by the President; on Structural and Systematic Botany, by Prof. Davies.

In addition to these courses, other Lectures are delivered on Special Subjects, by members of the Faculty and other Scientific Gentlemen.