

# CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF THE

## UNIVERSITY OF WISCONSIN,

*For the Academic Year 1874-5.*

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MADISON, WIS.:  
OCT., 1874.

## FACULTY AND INSTRUCTORS.

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JOHN BASCOM, LL. 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 and English Literature.

ALEXANDER KERR, A. M.,

Professor of the Greek Language and Literature.

JOHN B. FEULING, 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 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.

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HON. E. G. RYAN, LL. D.,

Chief Justice of the Supreme Court of Wisconsin.

Professor of Law.

HON. ORSAMUS COLE, LL. D.,

Associate Justice of the Supreme Court of Wisconsin.

Professor of Law.

HON. WILLIAM PENN LYON, LL. D.,

Associate Justice of the Supreme Court of Wisconsin.

Professor of Law.

*UNIVERSITY OF WISCONSIN.*

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 Natural History and Assistant Curator of Cabinet.

JOHN M. OLIN, A. B.,  
Instructor in Rhetoric and Oratory.

JEROME HENRY SALISBURY, A. B.,  
Instructor in Greek and Latin.

JOSEPH CLINTON FULLER, A. B.,  
Instructor in English.

JAMES R. STEWART,  
Instructor in Drawing.

Mrs. D. E. CARSON,  
Preceptress.

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

Miss S. A. CARVER,  
Teacher of French and German.

Miss SUE R. EARNEST,  
Teacher of Instrumental Music.

Miss HATTIE E. HUNTER,  
Teacher of Vocal Music.

## I. COLLEGE OF ARTS.

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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 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.  
*German*—Whitney's Grammar and Reader.  
*Optional*—Norse.

## SECOND TERM.

*Mathematics*—Solid Geometry. Loomis.  
*English*—Carpenter's English of the XIVth Century.  
*German*—Schiller. William Tell.  
*Optional*—Norse.

## THIRD TERM.

*Mathematics*—Plane Trigonometry and its Applications.  
*Botany*—Gray's Manual.  
*German*—Lessing. Minna von Barnhelm.  
Themes and Declamations throughout the course; also German Composition.

*Sophomore Year.*

## FIRST TERM.

*Conic Sections and Analytical Geometry*—Loomis.  
*Practical Surveying and Crystallography*.  
*Rhetoric*—Bain and Lectures.  
*History*—Freeman's Outlines.  
*Optional*—French.  
*Optional*—Icelandic.

## SECOND TERM.

*Zoology*—Nicholson.  
*Analytical Geometry and Calculus*—Peck.  
*History*.  
*Optional*—Icelandic.

## THIRD TERM.

*Calculus*—Loomis.  
*Zoology*—completed.  
*German*—Egmont.  
*Optional*—History and French Literature.  
Composition and conversational exercises in French and German throughout the year.  
Drawing once a week during the first two years.

*Junior Year.*

## FIRST TERM.

*Mechanics*—Peck and Lectures.  
*Chemistry*—Lectures.  
*English Literature*—Shaw and Lectures.

## SECOND TERM.

*Physics*—Deschanel and Lectures.  
*Chemistry*—Fownes and Lectures.  
*History*—Hallam's Middle Ages, and Lectures.

## THIRD TERM.

*Physics*—Deschanel and Lectures.  
*Mineralogy*.  
*Analytical Chemistry*.

*Senior Year.*

## FIRST TERM.

*Mental Philosophy*—Bascom and Lectures.  
*Moral Philosophy*—Hickok.  
*Political Economy*—Walker and Lectures.  
*Spherical Trigonometry and Astronomy*—White.  
*Lectures*—Science of Language.  
*Optional*—Metallurgy, Assaying.

## SECOND TERM.

*Moral Philosophy*—Hickok.  
*Logic*—Deductive, Jevons and Lectures.  
*Geology*—Dana and Lectures.  
*Lectures*—International Law.  
*Æsthetics*—Bascom.  
*Natural Theology*—Chadbourne.

## THIRD TERM.

*Logic*—Inductive—Fowler and Lectures.  
*Constitutional Law*—Story and Lectures.  
*Geology*.  
*Lectures*—History of Civilization.  
*Optional*—Economic Geology.

## DEPARTMENT OF AGRICULTURE.

It is the design of the University to give in this Department a thorough and extensive course of scientific instruction, in which the leading studies shall be those that relate to agriculture. The instruction in this course 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 in 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.

## COURSE OF STUDY.

*Freshman and Sophomore Years.*

Same as the course in the Department of General Science.

## COLLEGE OF LETTERS.

## DEPARTMENT OF ANCIENT CLASSICS.

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

## COURSE OF STUDY.

*Freshman Year.*

## FIRST TERM.

*Mathematics*—Higher Algebra. Loomis.

*Latin*—Livy and Latin Composition.

*Greek*—Homer's Iliad, Grammar and Composition.

*Optional*—Norse.

## SECOND TERM.

*Mathematics*—Solid Geometry. Loomis.

*Latin*—Cicero de Officiis. Composition.

*Greek*—Herodotus. Grammar and Composition.

*Optional*—Norse.

## THIRD TERM.

*Mathematics*—Plane Trigonometry and its Applications.

*Botany*—Gray's Manual.

*Greek*—Thucydides. Grammar and Composition.

*Optional*—Latin.

Themes and Declamations throughout the course.

*Sophomore Year.*

## FIRST TERM.

*Conic Sections*—Loomis.  
*Rhetoric*—Bain and Lectures.  
*Latin*—Horace.  
*History*.  
*French*.  
*Optional*—Greek.

## SECOND TERM.

*Zoology*—Nicholson.  
*Greek*.  
*French*.  
*Optional*—Latin.

## THIRD TERM.

*Latin*—Tacitus.  
*Greek*—Æschylus, Prometheus, Goodwin's Moods and Tenses.  
*Anglo Saxon or Zoology*.  
*Drawing*—Once a week for the first two years.

*Junior Year.*

## FIRST TERM.

*Mechanics*—Peck and Lectures.  
*Chemistry*—Lectures.  
*English Literature*—Shaw, and Lectures.  
*Optional*—Greek.

## SECOND TERM.

*Physics*—Deschanel and Lectures.  
*History*—Hallam's Middle Ages, and Lectures.  
*Greek*—Plato, Apology and Crito.  
*Optional*—Latin.

## THIRD TERM.

*Physics*—Deschanel and Lectures.  
*Latin*—Quintilian or Juvenal.  
*Comparative Philology*—Whitney and Lectures.

*Senior Year.*

## FIRST TERM.

*Mental Philosophy*—Bascom and Lectures.  
*Moral Philosophy*—Hickok.  
*Political Economy*—Walker and Lectures.  
*Spherical Trigonometry and Astronomy*—White.

## SECOND TERM.

*Moral Philosophy*—Hickok.  
*Aesthetics*—Bascom.  
*Logic, Deductive*—Jevons and Lectures.  
*Geology*—Dana and Lectures.  
*International Law*—Lectures.  
*Natural Theology*—Chadbourne.

## THIRD TERM.

*Constitutional Law*—Story.  
*Logic, Inductive*—Fowler.  
*Rhetoric*—Day's Art of Discourse, (Invention).  
*History of Civilization*—Lectures.

## DEPARTMENT OF MODERN CLASSICS.

In this course German and French take the place of Greek. The studies are arranged to give students a good knowledge of those languages and their literature, to fit them to engage in the duties of instruction, or to prosecute to advantage professional studies.

## COURSE OF STUDY.

*Freshman Class.*

## FIRST TERM.

*Mathematics*—Higher Algebra, Loomis.  
*Latin*—Livy and Latin Composition.  
*German*—Whitney's German Grammar and Reader.  
*Optional*—Norse.

## SECOND TERM.

*Mathematics*—Solid Geometry, Loomis.  
*Latin*—Cicero de Officiis. Composition.  
*German*—Schiller. William Tell.  
*Optional*—Norse.

## THIRD TERM.

*Mathematics*—Plane Trigonometry and its Applications.  
*Botany*—Gray's Manual.  
*German*—Lessing. Minna von Barnhelm.  
*Optional*—Latin.  
 Themes and Declamations throughout the course; also French and German Composition.

*Sophomore Year.*

*Conic Sections*—Loomis.  
*Rhetoric*—Bain and Lectures.  
*History*.  
*Latin*—Horace.  
*French*—Grammar.  
*Optional*—Icelandic.

## SECOND TERM.

*Zoology*—Nicholson.  
*French*—Select Prose and Poetry.  
*History*.  
*Optional*—Latin.  
*Optional*—Icelandic.

## THIRD TERM.

*Latin*—Tacitus.  
*Anglo-Saxon*—March.  
*German*—Goethe. Egmont.  
*Optional*—History of French Literature.  
*Drawing*—Once a week for the first two years.

*Junior Year.*

## FIRST TERM.

Mechanics—Peck and Lectures.

Chemistry—Lectures.

English Literature—Shaw and Lectures.

## SECOND TERM.

Physics—Doehanel and Lectures.

History—Hallam's Middle Ages and Lectures.

German—H. Gellorn's Raphael and Michael Angelo.

French—La Littérature Française Classique.

Optional—Latin.

## THIRD TERM.

Physics—Doehanel and Lectures.

Latin—Quintilian or Juvenal.

Comparative Philology—Whitney and Lectures.

Optional—History of German Literature.

*Senior Year.*

## FIRST TERM.

Mental Philosophy—Hasson and Lectures.

Moral Philosophy—Hickok.

Mental Acoustics—Walker and Lectures.

Spherical Trigonometry and Astronomy—White.

## SECOND TERM.

Moral Philosophy—Hickok.

Aesthetics—Hasson and Lectures.

Logic, Dialectic—Jevons and Lectures.

Cosmology—Dana and Lectures.

International Law—Lectures.

Natural Theology—Chadbourne.

## THIRD TERM.

Logic, Dialectic—Powell.

Constitutional Law—Story and Lectures.

Rhetoric—Day's Art of Discourse, Invention.

Theory of Evolution—Lectures.

## 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.  
Anglo-Saxon.

II. *Philology.*

Sanskrit.  
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.

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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.

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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 and Æsthetics, by the President; on Rhetoric and Logic, by Prof. Carpenter; on History, Political Economy, Civil Polity and International Law, by Prof. Allen; on Geology and Economic Geology; on Mining Engineering, and on Metallurgy, by Prof. Irving.

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

omy, by Prof. Sterling; on English Literature, 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 History, by Prof. Allen.

To the FRESHMAN CLASS, on the Laws of Health and Methods of Study, by the President.

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