

P417. 937

Proposed Revised  
Regulations For the  
Master's and Doctor's Degrees  
in  
Princeton college



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PROPOSED REVISED REGULATIONS  
FOR THE  
MASTER'S AND DOCTOR'S DEGREES  
IN  
PRINCETON COLLEGE.

*Princeton university, Faculty*

Being the Report of the <sup>^</sup>Committee on University  
Degrees and Fellowships to the Faculty.

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NOVEMBER, 1891.

### MASTER OF ARTS. (A. M.)

This degree may be conferred only upon a Bachelor of Arts who shall have devoted one year exclusively to graduate study in the College under the care of the Faculty, passing examinations upon the studies pursued; or shall have taken at least one University course throughout each year for two consecutive years and passed satisfactory examinations upon his work; or shall have submitted to the Faculty a satisfactory dissertation, ordinarily of not less than five thousand words, on some literary, philosophical or scientific subject, not earlier than the first of April in the third year after graduation. The fee for this degree is ten dollars, to be paid to the College Treasurer either before the candidate enters his last examinations, or else when his dissertation is handed in.

### MASTER OF SCIENCE. (M. S.)

This degree may be conferred upon any Bachelor of Science who shall have devoted one year exclusively to graduate study in the College under the care of the Faculty in such of the following subjects as the Faculty shall prescribe, and who shall have shown satisfactory proficiency therein by dissertations and examinations. The prescribed subjects are:—Biology, mathematics, rational and applied mechanics, practical astronomy, applied chemistry, qualitative analysis, quantitative analysis, physics, mineralogy, graphics, modern languages.

Any Bachelor of Arts, who after examination may be found to be prepared to pursue a University course in science, may become a candidate for the degree of Master of Science on the same conditions as a Bachelor of Science. The fee for the degree is ten dollars, to be paid

to the College Treasurer before the candidate enters his last examinations.

THE DEGREE OF DOCTOR OF PHILOSOPHY  
(PH. D.) IN PRINCETON COLLEGE.

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Subject to the regulations hereinafter stated, the degree of Doctor of Philosophy may be conferred upon any Bachelor of Arts of Princeton College, or any approved college whose Academic course is equivalent to that pursued in Princeton, provided he has spent at least two years in exclusive study for the degree. One of the two years must be spent in Princeton, and the other either at Princeton or some other approved university.

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REGULATIONS.

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I. *The Preliminary Examination.*

Every applicant before enrollment as a candidate for the Doctor's degree must pass an examination in Princeton on the first Wednesday following the opening of the College in September.

All applicants are examined on their ability to read ordinary French and German with a fluency sufficient to ensure their use as instruments of advanced study.

They are also examined in the group of subjects connected with the general department of their proposed studies, as detailed below :

P 47  
737 4/4/23

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## A. In the Department of Philosophy :

Ability to read Latin with a fluency sufficient to ensure its use as an instrument of advanced study.

General Psychology and Logic.

History of Philosophy, Ancient and Modern.

Outlines of General History.

## B. In the Department of Language and Literature :

Outlines of General History.

General knowledge of the English Language and Literature.

Ability to read Greek and Latin with fluency sufficient to ensure their use as instruments of advanced study.

## C. In one of the following six groups in the Department of Mathematics and Science :

## 1. In Mathematics.

Elementary Mathematics, including the elements of the Theory of Equations and the Differential and Integral Calculus.

## 2. In Astronomy.

Elementary Mathematics, including Trigonometry and Analytical Geometry. General Astronomy. General Physics.

## 3. In Physics.

Elements of Mathematics, including Trigonometry and Analytical Geometry. General Physics.

4. In Chemistry.  
General Chemistry. General Physics.
5. In Geology and Physical Geography.  
Elements of Geology, Zoology and Botany. General Chemistry.
6. In Biology.  
Elements of Zoology and Botany. General Chemistry.

## II. *Chief Subject of Study :*

Every candidate, after passing his preliminary examination and before entering on his studies for the Doctor's degree, shall announce which one of the subjects in the appended lists he selects as his Chief Subject and shall thereupon present to the Committee on University Degrees and Fellowships for their approval a statement of the said Chief Subject to which he intends devoting himself while a candidate, with such fulness of explanation as the Committee may require.

### A. Department of Philosophy :

Logic.  
Psychology.  
Ethics.  
Metaphysics.  
History of Philosophy.  
Philosophy of Religion.  
History.  
Political Economy.  
Science of Politics.  
Jurisprudence.

## B. Department of Language and Literature :

Archæology and Art.

Sanskrit.

Greek.

Latin.

French.

German.

Italian.

English.

## C. Department of Mathematics and Science :

Mathematics.

Astronomy.

Physics.

Chemistry.

Geology and Physical Geography.

Biology.

III. *The Subsidiary Subjects :*

In addition to the Chief Subject the candidate shall select two suitable Subsidiary Subjects and announce them to his examiners at some time in the first year of his course. One of these must be Logic, Psychology, Ethics, or the History of Philosophy, unless the candidate has chosen for his Chief Subject any one of those just named. The Subsidiary Subjects should be cognate to the Chief Subject, but not included under it, and with this restriction any study enumerated in the lists of Chief Subjects may be taken, as well as the following which are not thus enumerated: Physiological Psychology, Pedagogics.

#### IV. *The Thesis :*

The candidate shall present a thesis on some special topic in the department which constitutes his Chief Subject at least four months before the degree can be granted. The thesis is not ordinarily to exceed twenty thousand words in length and shall not be accepted unless it contains evidence of thorough scholarship and ability to pursue original research, and if accepted it must be published by the candidate before the degree can be conferred. If the thesis is not accepted, the candidate will not be admitted to the final examination.

#### V. *The Final Examination :*

After the thesis has been accepted the candidate may proceed to his final examination at a time appointed by the committee on University Degrees and Fellowships. This examination is to be conducted orally in presence of the Faculty, and cannot be divided. In the Chief Subject, however, there may be a written examination in addition to the oral, if the Examiner so requires. The candidate will be examined on his general knowledge of the Chief Subject, and will be expected to show in addition a minute and complete acquaintance with some one principal part of it.

#### VI. *The Conferring of the Degree.*

Candidates who pass the final examination are ordinarily recommended to the Trustees for the Doctor's degree, and if the Trustees adopt the recommendation, the degree is publicly conferred by the President at the annual Commencement in June. The degree of Doctor of Philosophy carries with it that of Master of Arts.

VII. *Fees.*

Those who apply for the degree shall pay to the College Treasurer a fee of forty dollars before entering the preliminary examination, twenty-five dollars each year thereafter, and fifty dollars when the thesis is handed in for examination.

THE DEGREE OF DOCTOR OF SCIENCE (D. SC.)  
IN PRINCETON COLLEGE.

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Subject to the regulations hereinafter stated, the degree of Doctor of Science may be conferred upon any Bachelor of Science of Princeton College, or any approved college or scientific school whose course is equivalent to that pursued in Princeton, provided he has spent at least two years in exclusive study for the degree. One of the two years must be spent in Princeton, and the other either at Princeton or some other approved university.

I. *The Preliminary Examination.*

Every applicant before enrollment as a candidate for the Doctor's degree must pass an examination in Princeton on the first Wednesday following the opening of the College in September.

All applicants are examined on their ability to read ordinary French and German with a fluency sufficient to ensure their use as instruments of advanced study and research.

They are also examined in the particular group of subjects connected with the subject of their proposed studies, as detailed below :

## 1. Mathematics.

Elementary Mathematics, including the Elements of the Theory of Equations and of the Differential and Integral Calculus.

## 2. Astronomy.

Elementary Mathematics, including Trigonometry, Analytical Geometry and the Elements of the Differential and Integral Calculus. General Astronomy. General Physics.

## 3. Physics.

Elementary Mathematics, including Trigonometry, Analytical Geometry and the Elements of the Differential and Integral Calculus. General Physics. General Chemistry.

## 4. Chemistry.

General Chemistry. General Physics.

## 5. Geology and Physical Geography.

Elements of Geology, Zoology and Botany. General Chemistry.

## 6. Biology.

Elements of Zoology and Botany. General Chemistry.

II. *Chief Subject of Study.*

After passing the Preliminary Examination every candidate shall announce which of the following departments he selects for his Chief Subject of Study :

## 1. Mathematics :

Including Higher Differential and Integral Calculus ;  
 Differential Equations ;  
 Geometry (Conics, Higher Plane Curves, Geometry of Three Dimensions);  
 Theory of Functions ;  
 Elliptic Functions ;  
 Analytical Mechanics.

NOTE.—In the final examination the candidate will also be tested with reference to his ability to make a computation with reasonable skill and accuracy. This will be necessary only where the candidate has had no satisfactory laboratory or observatory experience.

## 2. Astronomy :

Including either Practical Astronomy and Theory of Observations,  
 Or Computation of Orbits and Ephemerides.

## 3. Physics :

Courses not yet formulated.

## 4. Chemistry :

Including Mineralogy, Descriptive ;

## 5. Applied Chemistry, Inorganic or Organic.

NOTE.—A portion of the time will be required for the study of Qualitative and Quantitative Chemistry, unless the candidate is already sufficiently proficient in these branches.

## 5. Geology and Physical Geography :

Including either Practical and Engineering  
Geology, including Field Work,  
Or Application of Palæontology to  
Determinations of Formations ;  
Or Physical Geography.

## 6. Biology :

Including the Morphology, Histology and  
Embryology of some one class of  
Animals or Plants ;  
Physiology ;  
Histological Methods and Practice ;  
Animal Embryology ;  
Modes of Reproduction of Plants.

III. *The Subsidiary Subjects.*

In addition to the Chief Subject the candidate shall select two suitable Subsidiary Subjects and announce them to his Examiners at some time in the first year of his course. The Subsidiary Subjects should be cognate to the Chief Subject, but not included under it, and with this restriction any study enumerated in the lists of Chief Subjects may be taken.

IV. *The Thesis.*

The candidate shall present a Thesis on some special topic in the department which constitutes his Chief Subject at least four months before the degree can be granted. The Thesis is not ordinarily to exceed twenty thousand words in length, and shall not be accepted unless it contains evidence of thorough scholarship and abil-

ity to pursue original research, and if accepted it must be published by the candidate before the degree can be conferred. If the Thesis is not accepted the candidate will not be admitted to the final examination.

#### V. *The Final Examination.*

After the Thesis has been accepted the candidate may proceed to his Final Examination at a time appointed by the Committee on University Degrees and Fellowships. This examination is to be conducted orally in the presence of the Faculty and cannot be divided. In the Chief Subject, however, there may be a written examination in addition to the oral, if the Examiner so requires. The candidate will be examined on his general knowledge of the Chief Subject, and will be expected to show in addition a minute and complete acquaintance with some one principal part of it.

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