

PRINCETON UNIVERSITY

REQUIREMENTS FOR

ADMISSION AND EXPENSES

JULY, 1897

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ACADEMIC DEPARTMENT.

ADMISSION.

ENTRANCE EXAMINATIONS.

All candidates for examination in Princeton must report at the Faculty Room in the University Offices the evening before the examination begins or on their arrival the following morning. Examinations for admission will be written, with supplementary oral examinations if needed. The first examination will begin in Princeton, on Thursday, June 17th, 1897, at 10 A. M. The second will begin on Tuesday, September 21st, 1897, at 10 A. M. Applicants who have any conditions or other deficiencies from the June examination are required to remove them at the September examination. *Attendance is required at the beginning of the examinations.*

Simultaneously with the June entrance examinations in Princeton, examinations will also be held in the cities of New York, Philadelphia, Washington, Buffalo, Pittsburgh, Cincinnati, Louisville, Chicago, St. Louis, Omaha, Denver, Kansas City; and at preparatory schools and other cities when necessary. The places in which the examinations are to be held can be learned by application to the Registrar. Due notice of these examinations will also be published in leading local newspapers for several weeks in advance.

Examinations at other times and places than those specified are inconvenient and often impracticable, and applicants for examination at other than the regular days are required to pay \$10 into the treasury.

All candidates for admission to any class, or as special students, must bring with them testimonials of good moral character, preferably from their last instructors, and if the candidate has been a

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member of another college or university, he must produce a certificate from its President or Faculty that he is free from censure in that institution.

No candidate is admitted into the Undergraduate Department without examination and a vote of the Faculty.

Immediately after the beginning of the Academic year the students entering the Undergraduate Department meet according to announcement for matriculation and subscription to the following pledge, required by the Board of Trustees :

We, the undersigned, do individually for ourselves promise, without any mental reservation, that we will have no connection whatever with any secret society, nor be present at the meetings of any secret society in this or any other institution so long as we are members of Princeton University; it being understood that this promise has no reference to the American Whig and Cliosophic Societies. We also declare that we regard ourselves bound to keep this promise and on no account whatever to violate it.

FRESHMAN ENTRANCE REQUIREMENTS.

Candidates for admission to the Freshman class will be examined in the books and subjects detailed below. It is recommended that candidates be prepared for examination on the requirements as specified, but equivalents will be accepted.

In the subjoined list of subjects, the following constitute the minimum requirements which are expected of all candidates: **1, 2, 3, 4, 5, 6; 12, 13, 14, 16 (or 15 or 17); 20 (or 21); 24, 25, 26, 27.**

Candidates who pass satisfactorily in certain of the other subjects, in addition to those enumerated above, may in this way secure advanced standing at the start in one or all of the subjects of instruction of the Freshman year. The requirements for advanced standing in each department are as follows:

In Latin: Two or more of **7, 8, 9, 10, 11** (one to be **7, 8 or 9**).

In Greek: Two or more of **15, 16, 17, 18, 19** (one to be **15, 16 or 17**, excluding the one offered as part of the minimum requirements).

In French: **22.** To be offered only by candidates offering **20.**

In German: **23.** To be offered only by candidates offering **21.**

In Mathematics: One and but one of **28, 29.**

Each applicant for admission or for preliminary examination should be provided with a statement, signed by his teacher, as to his fitness to be examined in each of the subjects specified in the following list. This statement is merely for the information of the examiners, and is in no sense an admission certificate. Proper blanks will be supplied in advance to teachers, upon application to the Registrar of the University.

1. *English.* The examination will be based upon the books prescribed by the uniform entrance requirements in English. Questions as to the subject matter, structure, and style of these books will be asked. Candidates must be prepared in all of the books required for the year of entrance. For 1897 the books prescribed are, for reading, Shakspeare's *As You Like It*, De Foe's *History of the Plague in London*, Irving's *Tales of a Traveller*, Hawthorne's *Twice Told Tales*, and George Eliot's *Silas Marner*; for study, Shakspeare's *Merchant of Venice*, Burke's *Speech on Conciliation with America*, Scott's *Marmion*, and Macaulay's *Life of Samuel Johnson*. For 1898 the books prescribed are, for reading, Milton's *Paradise Lost*, Books I and II. Pope's *Homer's Iliad*, Books, I, VI, XXII and XXIV, The *Sir Roger de Coverley Papers*, Goldsmith's *Vicar of Wakefield*, Coleridge's *Rime of the Ancient Mariner*, Southey's *Life of Nelson*, and Carlyle's *Essay on Burns*; for study, Shakspeare's *Macbeth*, Burke's *Speech on Conciliation with America*, De Quincey's *Flight of a Tartar Tribe*, and Tennyson's *Princess*.

2. *Latin Grammar.* The inflections; the simpler rules for composition and derivation of words; syntax of cases and verbs; the structure of the sentence in general, with particular regard to relative and conditional sentences, indirect discourse and the subjunctive; so much prosody as relates to accent, versification in general, and dactylic hexameter.

3. *Latin Composition.* Translation into Latin of easy continuous prose based upon Cæsar and Cicero.

Special attention is called to this requirement. It is strongly recommended that prose composition begin with the earliest study of Latin and be used continuously as the means for organizing the pupil's vocabulary under the forms of grammar. The writing of detached sentences should give place as soon as possible to practice in writing continuous prose, based chiefly or exclusively on definite

portions of *Cæsar* and *Cicero*, during the whole time when these authors are being read. Such exercises may be found in *Collar's Practical Latin Composition* and *Daniell's Exercises in Latin Composition*.

4. *Cæsar*. The first five books of the Gallic War.

5. *Virgil*. The first six books of the *Æneid*, including the prosody of hexameter verse.

6. *Cicero*. Nine orations, including the four against *Catiline*, the orations for *Archias* and the *Manilian Law*, and any other three, preferably to be selected from the orations for *Milo*, for *Marcellus*, for *Ligarius*, and the fourteenth *Philippic*.

7. *Ovid*. Selections from the *Metamorphoses* (2500 lines).

8. *Sallust*. The *Catiline* or the *Jugurtha*.

[7 or 8 may be offered in place of any three orations of *Cicero*.]

9. *Virgil*. The *Eclogues* and *Georgics*, or the last six books of the *Æneid*.

10. *Latin Sight Translation*. Sight translation into English from easy Latin prose writers, such as *Cornelius Nepos*, *Aulus Gellius*, *Quintus Curtius* and *Eutropius*.

11. *Roman History and Geography*. The history of Rome down to the battle of *Actium*. The ancient geography of Italy and Gaul and the topography of the city of Rome.

12. *Greek Grammar*. The topics for examination in Greek grammar are similar to those enumerated under Latin grammar. Special stress is laid upon a thorough knowledge of the noun and verb inflections.

13. *Greek Composition*. Simple sentences and easy continuous discourse based upon *Xenophon's Anabasis*, chiefly to test the candidate's knowledge of accent, inflection and the fundamental rules for the syntax of the noun and verb.

14. *Xenophon*. The first four books of the *Anabasis*.

15. *Xenophon*. The fifth, sixth and seventh (chapters i-iii) books of the *Anabasis*.

16. *Herodotus*. The seventh book of the *History* (sections 1-60 and 172-239.)

17. *Homer*. The first three books of the *Iliad*.

18. *Greek History and Geography*. The history of Greece down to the end of the *Peloponnesian War*. The ancient geography of Greece and *Asia Minor*.

19. Greek Sight Translation. Sight translation into English from easy Greek prose, such as the writings of Xenophon.

20. Elementary French. Translation at sight of easy French prose into English and of easy English exercises into French. Rudiments of grammar, including the irregular verbs. (So much as is in Whitney's Brief French Grammar, or Whitney's Practical French Grammar, Part I, or Edgren's, Part I.) Super's Reader, or Whitney's, is recommended, or an equivalent amount of reading.

21. Elementary German. Translation at sight of easy German prose into English and of easy English exercises into German. Rudiments of grammar, comprising declension of nouns; conjugation of auxiliary, regular, and irregular verbs; separable and inseparable verbs; declension and comparison of adjectives; pronouns; the most frequent prepositions; numerals; the principles of the normal, inverted and transposed order. Fifty pages of easy prose: Grimm's Märchen or Meissner's Aus meiner Welt.

Either **20** or **21**, but not both, are to be offered.

22. Advanced French. Dumas: La Tulipe Noire, and Daudet: Lettres de mon Moulin. Translation into French of English exercises based on these books.

23. Advanced German. Five cantos of Goethe's Hermann und Dorothea, or Chamisso's Peter Schlemihl. Harris's German Composition: Introductory Selections and Easy Narrative Selections. (Parts I, II.)

24. Arithmetic. Including only greatest common divisor and least common multiple; vulgar and decimal fractions; percentage apart from its commercial applications; square root; the metric system of weights and measures. Special emphasis is laid upon accuracy and facility in reckoning.

25. Plane Geometry.

26. Algebra. Through quadratic equations involving two unknown quantities,—including radicals and fractional and negative exponents.

27. Algebra. Indeterminate equations of the first degree, ratio and proportion, variation, arithmetical and geometrical progression, undetermined coefficients and the binomial theorem.

28. Solid and Spherical Geometry.

29. Logarithms and Plane Trigonometry.

PRELIMINARY EXAMINATIONS.

At the examinations in June and September, candidates intending to enter the Freshman class one year later are admitted to examination in a portion of the subjects required for entrance. No candidate at the preliminary examination may receive a certificate, unless he passes in at least four subjects, nor will the preliminary certificate be granted to any candidate more than once. English, Latin Grammar, Latin Composition, Greek Grammar and Greek Composition, Algebra **27** may not be tried at the preliminary examination. Elementary French or German may not be tried at the preliminary examination unless the candidate expects to offer **22** or **23** the next year.

ADMISSION TO SPECIAL COURSES.

In exceptional cases, students, not members of any one of the four regular classes nor candidates for a degree, are admitted to the privileges of the University, and allowed to take special undergraduate courses, selected under the direction of the Faculty, in such a manner as to secure full and profitable employment of their time. Such special students undergo an entrance examination sufficient to ascertain their preparation for the courses proposed, and are subject to the same regulations and discipline and to the same examinations in the studies pursued, as other undergraduates. These special courses, however, are not offered to those who have failed in the regular course.

When special students are finally leaving college, professors may authenticate for them such studies as they have pursued in their respective departments; and certificates of proficiency, signed by the President and Registrar, may be granted them on report by the Committee on Special Students that they have completed the courses on their schedule.

SOPHOMORE, JUNIOR AND SENIOR ENTRANCE REQUIREMENTS.

Candidates for admission to the Sophomore class who have not completed the studies of the Freshman year at another approved institution must first pass an examination on the studies required for admission to the Freshman class.

Candidates for admission to the Sophomore, Junior or Senior class, when coming from another institution, are examined only in the studies of the year preceding that which they wish to enter,

provided they present evidence that they have passed satisfactory examinations on the previous studies of the curriculum and entrance requirements, or their equivalents.

A candidate coming from an undergraduate class in an approved institution may be allowed, at the discretion of the Faculty, to enter the next lower class in this University, without examination, provided he presents satisfactory certificates from his former institution.

The studies of the Freshman year are Latin, Greek, Mathematics, English, French or German. For admission to the Sophomore class, candidates will be examined on the following minimum amounts or equivalents.

In Greek: Xenophon's Hellenica, Books I-II; Herodotus, 60 pages, exclusive of any part offered for entrance to the Freshman class; Thucydides, Book II, or an equal amount.

In Latin: Terence, one play; Livy, books I and XXI or XXII; Cicero, *De Senectute*; Roman History; Prose Composition based on Livy, book I.

In Mathematics: Algebra completed and Elementary Theory of Equations; Solid Geometry; Plane Trigonometry.

In English: Hunt's Discourse, pp. 19-150, or equivalent.

In French or German: The elements of one of these languages.

The studies of Sophomore year include the following required subjects: Latin, Greek, Mathematics, Mechanics, English, History, Chemistry, Zoology and Botany; and the following elective studies, of which two must be taken: Latin, Greek, Mathematics, French, German. While it is desirable that the candidate for the Junior year shall have some knowledge of Botany and Zoology, yet examination in these studies is not required.

The required studies of Junior year are Psychology, Physics, Logic, and Political Economy. Five elective studies in the first term and four in the second term are to be chosen from the departments of Philosophy, Language and Literature, Mathematics and Natural Science.

At the discretion of the Faculty, the Bachelor of Arts diploma of an approved institution may be taken in place of the examination for entrance to the Senior year.

No person is admitted to the University as a candidate for the degree of Bachelor of Arts after the beginning of the first term of the Senior year.

JOHN C. GREEN SCHOOL OF SCIENCE.

ADMISSION.

ENTRANCE EXAMINATIONS.

All candidates for examination in Princeton must report at the Faculty room in the University Offices, the evening before the examination begins, or on their arrival the following morning. The first examination for admission will begin in Princeton on Thursday, June 17th, 1897, at 10 A. M., and will continue through the afternoon of Friday. The second will begin on Tuesday, September 21st, at 10 A. M., and continue through the afternoon of Wednesday. Applicants who have conditions or other deficiencies from the June examination are expected to remove them at the September examination. *Attendance is required at the beginning of the examinations.*

Simultaneously with the June entrance examinations in Princeton, examinations are held in the cities of New York, Philadelphia, Washington, Buffalo, Pittsburgh, Cincinnati, Louisville, Chicago, St. Louis, Omaha and Denver; and at preparatory schools and other cities when necessary. The precise places in which the examinations are to be held can be learned by application to the Registrar. Due notice of these examinations will also be published in leading local newspapers for several weeks in advance.

Examinations at other times and places than those specified are very inconvenient and often impracticable, and applicants for examination at other than the regular days are required to pay \$10 into the treasury.

All candidates for admission must bring satisfactory testimonials of good moral character and attainments, preferably from their last instructors, and if the candidate has been a member of another college, university, or similar institution, he must produce a certificate from its President or Faculty that he is free from censure in the same.

Candidates for admission to the Freshman class must be at least sixteen years of age.

No candidate is admitted into the Undergraduate Department without an examination and a vote of the Faculty.

Immediately after the beginning of the Academic year, the students entering the Undergraduate Department meet according to announcement for matriculation and subscription to the following pledge, required by the Board of Trustees :

We, the undersigned, do individually for ourselves promise, without any mental reservation, that we will have no connection whatever with any secret society, nor be present at the meetings of any secret society in this or any other institution so long as we are members of Princeton University; it being understood that this promise has no reference to the American Whig and Closophic Societies. We also declare that we regard ourselves bound to keep this promise and on no account whatever to violate it.

FRESHMAN ENTRANCE REQUIREMENTS.

It is recommended that candidates be prepared for examination on the requirements as specified, but equivalents will be accepted.

Candidates for the course leading to the degree of Bachelor of Science are required to pass examinations in **1, 2, 3, 4, 5, 6, 8, 9, 11, 12, 13**, of the following list of subjects; candidates for the course in civil engineering are required to pass examinations in **1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13**.

Notice. Attention is called to the announcement that in June, 1898, and thereafter, candidates for the course leading to the degree of Bachelor of Science will also be required to pass examination in Algebra 7.

In June, 1898, and thereafter, the entrance requirements in English will be identical with those of the Academic Department.

In 1897, the requirements as given for the Academic Department (**1 English**) may be offered in Place of **1, 2** and **3** of the following list.

Each applicant for admission or for preliminary examination should be provided with a statement, signed by his teacher, as to his fitness to be examined in each of the subjects specified in the following list which he offers. This statement is merely for the information of the examiners, and is in no sense an admission cer-

tificate. Proper blanks will be supplied in advance to teachers, upon application to the Registrar of Princeton University.

1. *English Grammar*. Whitney or equivalent.

2. *Essay*. For 1897, the theme of the essay will be based on selections from Hawthorne's *Twice Told Tales*, George Eliot's *Silas Marner*, Scott's *Marmion* and Macaulay's *Life of Samuel Johnson*.

3. *United States History*. Johnston, Scott, or equivalent.

4. *Arithmetic*. Including only greatest common divisor and least common multiple; vulgar and decimal fractions; per centage apart from its commercial applications; square root; the metric system of weights and measures. Special emphasis is laid upon accuracy and facility in reckoning.

5. *Algebra*. Through quadratic equations involving two unknown quantities;—including evolution, radicals and fractional and negative exponents.

6. *Algebra*. Indeterminate equations of the first degree; ratio and proportion; variation; arithmetical and geometrical progression, and the binomial theorem with positive integral exponents.

7. *Algebra*. Undetermined coefficients and the binomial theorem with any exponent.

8. *Plane Geometry*.

9. *Solid Geometry*. Including the cylinder and cone.

10. *Plane Trigonometry*. Including the analytical theory of the trigonometrical functions and the usual formulæ, the use of trigonometrical tables and the solution of plane triangles.

11. *Latin*. Grammar, with special attention to parsing, and the retranslation from English into Latin of simple sentences from the first book of Cæsar; Translation, Cæsar (five books of the Gallic War), Cicero (the four orations against Catiline), or equivalents from other Latin authors.

12. *French*. The examination will be upon the general principles of grammar [*Otto*: pp. 28-201; or *Whitney*: Brief French Grammar, pp. 22-111; or *Edgren*: pp. VIII-LXIII, and 27-104], and the ability to translate easy prose; such as the first fifty pages of Whitney's *Introductory French Reader* or *Super's French Reader*, or of *G. Sand's La Mare au Diable*, (*Macmillan's* school edition), or *Erckmann-Chatrion's Le Consercit*.

13. GERMAN. The examination will be upon the general principles of grammar [*Whitney*: pp. 23-153 and 278-284; or *Otto*: pp. 18-253; or *Huss*: pp. 9-101 of the Theoretical Part, the sections with heavy-faced references only], and the ability to translate easy prose; such as *Grimm's Märchen* (Otis's edition, pp. 1-49), or *Boisen's German Prose* (pp. 3-51), or *Joynes's German Reader*, Part II and pp. 85-110 of Part IV.

It is recommended that all candidates should receive instruction in free-hand drawing before their entrance.

PRELIMINARY EXAMINATIONS.

At the examinations in June and September, candidates intending to enter the Freshman class one year later are admitted to examination in a portion of the subjects required for entrance. No candidate at the preliminary examination may receive a certificate unless he pass in at least four of the subjects enumerated above, nor will the preliminary certificate be granted to any candidate more than once.

The English Grammar **1**, Essay **2**, United States History **3** (or **1 English**), Algebra **6, 7**, Solid Geometry **9** and Trigonometry **10** may not be tried at the preliminary examination.

ADMISSION TO ADVANCED STANDING.

Candidates for admission to an advanced class will be examined in the studies previously pursued by the class they propose to enter and may also be required to pass the regular examinations for admission to the Freshman class. While a certificate of satisfactory work done in any of these studies in another institution will not necessarily excuse from examination, it may in some degree modify the examination, and should therefore always be presented. Examinations for advanced standing are held only in Princeton.

ADMISSION TO SPECIAL COURSES.

Admission to special courses and the regulation of work therein are determined in the same way as for special courses in the Academic department.

EXPENSES.

The following is the schedule of expenses for the year.

| | |
|-------------------------------------------------------------------|---------------------------|
| Board, 36 weeks | \$ 3.00 to \$7 per week. |
| Washing, 36 weeks..... | 50 cents per week. |
| Tuition and public room fee, Academic | 150.00 per annum. |
| Tuition and public room fee, School of Science | 160.00 per annum. |
| Tuition, extra for Laboratory Chemistry, Senior elective | 15.00 per annum. |
| Room rent (according to location of rooms) | 30.00 to \$175 per annum. |
| Fuel deposit (according to location of rooms) | 17.00 to \$26 per annum. |
| Gas deposit (according to location of rooms) | 24.00 to \$42 per annum. |
| Matriculation Fee, payable on entrance | 5.00 |
| Graduation Fee, payable second term, Senior year..... | 12.00 |

For other special courses than that in Analytical Chemistry arrangements may be made upon consultation with the Professor in charge.

The charges for fuel and gas are approximations based upon the greatest amount used. An account of the actual consumption is kept with each room, and the exact charge is adjusted at the end of the year. The charge for fuel includes the cost of kindling, and the labor of carrying coal, making fires, etc.

Apparatus Deposits.—Students pursuing certain courses in the School of Science are required to make deposits to pay for apparatus injured or destroyed. At the end of the term any excess in favor of the student is placed to his credit on the bill for the next term. The deposits in the courses are:—Freshmen, first term, Geodesy, \$3; Sophomores, first term, Geodesy, \$5; Botany, \$5; first or second term, Chemistry, \$12. Juniors, first term, Geodesy, \$6; first term, Chemistry, *e.*, \$12. Seniors, first term, Geodesy, \$4; Chemistry, *e.*, \$15; Chemistry, *g.*, \$12; Chemistry, Acad., \$8; second term, Chemistry, *e.*, \$10.

Students taking any of the courses in Graphics will require a drafting outfit costing from \$18 to \$25.

ESTIMATE OF ANNUAL EXPENSES.**ACADEMIC DEPARTMENT.**

Attention is specially called to the following approximate estimate of the necessary annual expenses for a student occupying an unfurnished room in one of the colleges, without including clothes, traveling or vacation expenses :

| | Min. | Medium. | Max. |
|------------------------------------------------------|-----------------|-----------------|-----------------|
| Board, 36 weeks, at \$3.00 to \$7.00..... | \$108.00 | \$180.00 | \$252.00 |
| Washing, 36 weeks, at 50 cents per week..... | 18.00 | 18.00 | 18.00 |
| Tuition and Public Room Fees..... | 150.00 | 150.00 | 150.00 |
| Matriculation Fee (on Entrance)..... | 5.00 | 5.00 | 5.00 |
| Room Rent..... | 30.00 | 60.00 | 175.00 |
| Fuel..... | 10.00 | 20.00 | 30.00 |
| Gas..... | | 10.00 | 25.00 |
| Total..... | \$321.00 | \$443.00 | \$655.00 |
| Deduct for Students on Scholarships..... | 100.00 | | |
| (See page 159.) | | | |
| | \$221.00 | | |
| Candidates for Ministry in special need of aid,..... | 30.00 | | |
| | \$191.00 | | |

UNIVERSITY BILLS.

All University expenses, including board, must be paid in advance to the Treasurer of the University.

Students are required to call at the Treasurer's office in the course of the first ten days of each term, and to give information as to their place of boarding, etc., so that their bills can be made out. All bills must be paid within the first four weeks of the term. Failure to comply with this rule will deprive the student of the privileges of the University until payment is made, unless excused by special vote of the Faculty.

When a student enters the University before the middle of the term, he shall pay in full the usual charges for that term, with the exception of the charges for board and washing; if he enter after the middle of the term, he shall pay one-half. For board and washing he shall pay in proportion to the time.

When a student leaves the University, whether voluntarily or by dismissal, before the middle of any term, one-half of the charges for tuition and public rooms for that term shall be refunded. But in the case of temporary absence and subsequent return, although the absence be for more than half a term, no such rebate shall be granted.

When a student is dismissed from the University for any cause, the advance deposit for board, washing, fuel and gas, beyond the time of his dismissal, shall be refunded to his parent or guardian.

When at the end of the first term the amount of the advance deposit proves to be in excess of the sum required to defray the board, washing or room bills of any student, the excess shall be credited on his bill for the next term. At the end of the Academic year the amounts overpaid by the members of the *graduating class* for board, washing, room rent, fuel, or gas shall be refunded by the Treasurer to the student's parent or guardian. The parent or guardian of *every undergraduate* will be advised of the amount of excess to the credit of his son or ward, and such amount will be *carried over to his credit on the bill of the first term of the following year*. In case of withdrawal or dismissal from the University of any undergraduate, at the end of the college year such excess will be refunded by the Treasurer to the parent or guardian, when informed by the Clerk of the Faculty that such undergraduate has been withdrawn or dismissed from the University.