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## GENERAL CIRCULAR OF INFORMATION 1913-14

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## CALENDAR

### University Summer Session, 1914

July 6,	Monday,	Summer Session begins.
Aug. 14,	Friday,	Summer Session ends.

### Summer School in Agriculture, 1914

July 6,	Monday,	Summer School begins.
Aug. 14,	Friday,	Summer School ends.

### First Term 1913-14

Sept. 12,	Friday,	Entrance examinations begin.
Sept. 22,	Monday,	Academic year begins. Registration of new students. Scholarship examinations begin.
Sept. 23,	Tuesday,	Registration of new students.
Sept. 24,	Wednesday,	Registration of old students.
Sept. 25,	Thursday,	Instruction begins. President's annual address to the students.
Sept. 27,	Saturday,	Registration, Graduate School.
Oct. 14,	Tuesday,	Last day for payment of tuition.
Nov.	Thursday-Friday,	Thanksgiving recess.
Dec. 20,	Saturday,	Instruction ends
Jan. 5,	Monday,	Instruction resumed { Christmas Recess.
Jan. 11,	Sunday,	Founder's Day.
Jan. 20,	Monday,	Term examinations begin.

### Second Term 1913-14

Feb. 7,	Saturday,	Registration, undergraduates.
Feb. 9,	Monday,	Registration, Graduate School.
Feb. 9,	Monday,	Instruction begins.
Feb. 27,	Friday,	Last day for payment of tuition.
April 1,	Wednesday,	Instruction ends. { Spring Recess.
April 9,	Thursday,	Instruction resumed
May 23,	Saturday,	Navy Day.
June 3,	Wednesday,	Term examinations begin.
June 17,	Wednesday,	Commencement.

### First Term 1914-15

Sept. 11,	Friday,	Entrance examinations begin.
Sept. 21,	Monday,	Academic year begins. Registration of new students. Scholarship examinations begin.
Sept. 22,	Tuesday,	Registration of new students.
Sept. 23,	Wednesday,	Registration of old students.
Sept. 24,	Thursday,	Instruction begins. President's annual address to students.
Sept. 26,	Saturday,	Registration, Graduate School.
Oct. 13,	Tuesday,	Last day for payment of tuition.
Nov.	Thursday-Friday,	Thanksgiving Recess.
Dec. 22,	Tuesday,	Instruction ends
Jan. 5,	Tuesday,	Instruction resumed { Christmas Recess.
Jan. 11,	Monday,	Founder's Day.
Jan. 25,	Monday,	Term examinations begin.

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This circular of information is intended for prospective students, and is designed to give them general information about Cornell University and its various colleges, the requirements for admission, tuition fees and other expenses, etc.

On the last page of the cover of this pamphlet, there is printed a list of the Official Publications of the University, which includes the special announcements of the various colleges. Every prospective student should consult this list and send at once for the special announcement of the particular college that he intends to enter. This special college announcement and the General Circular of Information together contain all the information needed by the prospective entrant. If he has not definitely decided in which college he will study, he should send for the special announcements of all the colleges among which his choice lies.

Any of these informational publications will be sent gratis and post-free, and all inquiries are welcome and will be promptly answered by the Secretary of Cornell University, Ithaca, New York.

# CORNELL UNIVERSITY

Cornell University was incorporated under the laws of the State of New York on April 27, 1865, and was opened on October 7, 1868. The existence of the University is due to the combined wisdom and bounty of the United States government, of the government of the State of New York, and of Ezra Cornell. The University is at Ithaca, New York, a city of fifteen thousand inhabitants, situated in a picturesque and healthful region. The University Campus overlooks a beautiful valley with Cayuga Lake in the distance. Ithaca may be reached by the Lackawanna, or the Lehigh Valley railroad.

The total attendance of students by years has been as follows:

1868, 412	1877, 529	1886, 829	1895, 2057	1904, 3841
1869, 563	1878, 505	1887, 1022	1896, 2105	1905, 4122
1870, 609	1879, 463	1888, 1229	1897, 2120	1906, 4225
1871, 597	1880, 399	1889, 1329	1898, 2543	1907, 4465
1872, 539	1881, 384	1890, 1390	1899, 2766	1908, 4859
1873, 509	1882, 405	1891, 1670	1900, 2980	1909, 5194
1874, 532	1883, 447	1892, 1883	1901, 3293	1910, 5624
1875, 542	1884, 575	1893, 2040	1902, 3457	1911, 5848
1876, 561	1885, 649	1894, 2042	1903, 3423	1912, 6311

The officers of instruction of Cornell University number nearly 700. The campus and grounds of the University cover 1,099 acres. The main University buildings in Ithaca are grouped around a great quadrangle flanked by Goldwin Smith Hall (history, languages, philosophy, etc.), Lincoln Hall (civil engineering), Sibley College (mechanical engineering), White Hall (architecture, mathematics), McGraw Hall (geology, vertebrate zoology), Morrill Hall (administration building), the University Library, Boardman Hall (law), and Stimson Hall (medicine), with Franklin Hall (electrical engineering), Rand Hall (pattern and machine shops), Morse Hall (chemistry), Rockefeller Hall (physics), the buildings of the College of Agriculture, the Veterinary College, the Astronomical Observatory, the Gymnasium, and the Armory conveniently near. The Cornell University Medical College in the City of New York is located on First Avenue between Twenty-seventh and Twenty-eighth Streets.

The University is composed of the Graduate School (degrees A.M., Ph.D., etc.), and the following colleges:

The College of Arts and Sciences (degrees A.B., B.Chem.),

The College of Law (degree LL.B.),

The Medical College (degree M.D.),

The New York State Veterinary College (degree D.V.M.),

The New York State College of Agriculture, (degree B.S.),

The College of Architecture (degree B.Arch.),

The College of Civil Engineering, including Hydraulic and Sanitary Engineering (degree C.E.),

The Sibley College of Mechanical Engineering and Mechanic Arts, including Electrical and Mining Engineering (degree M.E.).

No student who has satisfied the requirements for any baccalaureate degree, shall be recommended for any other baccalaureate degree until he shall have completed at least one year of further residence, and of work acceptable to the faculty on whose recommendation the second baccalaureate degree is to be conferred.

## REQUIREMENTS FOR ADMISSION

### The Graduate School

Graduates of the following colleges of Cornell University, namely the College of Arts and Sciences, the Medical College, the College of Architecture, the College of Civil Engineering, the Sibley College of Mechanical Engineering, the New York State College of Agriculture,—or of other institutions in which the requirements for the first degree are substantially equivalent,—are eligible for admission to the Graduate School. In other cases, studies pursued after graduation, and experience gained by professional work or otherwise, are taken into consideration in deciding whether the candidate's preparation as a whole is such as to justify his admission to the Graduate School. Graduates of colleges other than those of Cornell University may be admitted to the Graduate School, but not to candidacy for an advanced degree, in case their training is accepted as less than one year short of that required for the first degree at Cornell University.

Seniors in the colleges of Cornell University who have completed the work required for the Bachelor's degree may, under certain conditions to be ascertained from the deans of their respective colleges, be admitted to the Graduate School.

Correspondence should be addressed to the Dean of the Graduate School, Cornell University, Ithaca, New York. For further details regarding admission, applicants should consult the Announcement of the Graduate School, requests for which should be addressed to the Secretary of Cornell University, Ithaca, New York.

The Graduate School has exclusive control of all graduate work carried on in Cornell University.

### The Medical College

The following classes of candidates are admitted to the Cornell University Medical College:

1. Graduates of approved colleges or scientific schools;
2. Seniors in good standing in approved colleges or scientific schools upon condition that their faculty will permit them to substitute the first year in the Cornell University Medical College for the fourth year of their college course, and will confer upon them the Bachelor's degree\* upon the satisfactory completion of the year's work;
3. Persons who give evidence by examinations that they have acquired an equivalent education to that signified by a Bachelor's degree, and training sufficient to enable them to profit by the instruction offered in the Cornell University Medical College.

All candidates for admission to the Cornell University Medical College must have at least such knowledge of physics, inorganic chemistry, and biology as may be obtained in college by a year's work in these subjects.

Of the four years required to obtain the degree of Doctor of Medicine from Cornell University, the first may be taken at the Cornell University Medical

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\*No student under this clause is permitted to enter the second year of the medical curriculum without the Bachelor's degree obtained after at least three years of undergraduate college work. This clause is intended to provide for those students who by specially directed or by specially proficient work, accomplish the essential requirements for a baccalaureate degree during three years of college residence.

College in Ithaca, or in New York City. The last three years must be taken in New York City.

For more detailed information, a candidate should consult the Announcement of the Medical College, which may be obtained upon application either to the Secretary of the Ithaca Division of the Cornell University Medical College, Ithaca, New York, or to the Secretary of the Cornell University Medical College, First Avenue and Twenty-eighth Street, New York City.

### Undergraduate Courses

All the colleges of Cornell University conferring baccalaureate degrees presuppose, on the part of the applicant for admission, an amount of training equivalent to that gained by four years of successful work in a high school of good standing.

The entrance requirements of these colleges are in many respects similar (see page 10), but special modifications exist and the faculties of the respective colleges may make further modifications at any time to take effect after due notice.

Every applicant for admission to any of the regular undergraduate courses of the University, must file at the Registrar's office either a certificate of his good moral character, or, in case he has previously attended some other college or university without graduating from it, a certificate of his honorable dismissal by that institution.

Applications for admission to all the colleges of the University, except the Graduate School and the Medical College, are entertained from the following three classes: (a) persons who desire to begin as freshmen, in some college of the University, a regular course of study leading to a degree conferred by that college; (b) students who, having already attended some institution of collegiate rank, desire to enter some college of the University; (c) persons who desire to register as special students not candidates for a degree. The conditions for admission for these three classes of persons are separately described on pages 9 and 26.

The regular session in all the colleges of the University is divided into two terms. Vacations and holidays are as follows: on Thanksgiving Day and the following Friday, at Christmas, on Founder's Day (January 11th), in the spring (at or near Easter), and on Navy Day (for 1914, on May 23rd). Degrees are conferred at the Commencement in June, and without formal exercises in February and September. For the first term 1913-14, instruction will begin September 25th and will end January 24th; the corresponding dates for the second term are February 9th and June 2nd. The final examinations of the first term take place between January 26th and February 4th; for the second term between June 3rd and June 12th. Commencement Day in 1914 will be June 17th, in 1915, June 16th. These dates apply also to the Graduate School. For corresponding dates for the Medical College, consult the special announcement of that college.

### The University Summer Session

There are no examinations for admission to the University Summer Session, which is a regular portion of the University year, extending over a period of six weeks (in 1914, from July 6th to August 14th). Instruction is provided in certain entrance subjects, thus enabling students preparing to enter the University to

make up deficiencies to the extent of one unit in foreign languages, mathematics, or science. About 150 courses of instruction are given, covering a large amount of regular undergraduate work. University students have thus an opportunity to make up back work, to anticipate work of required courses, and to take subjects for which they have not had time during the winter. Attendance through a Summer Session is counted as one-half term of residence. One full university year's work may thus be completed by undergraduates in four summers. Graduate students may, to a limited extent, carry on work towards an advanced degree. Much of the instruction is especially adapted to teachers in all grades of schools. A special circular giving details of work is published each year in March. Copies may be obtained upon application to the Secretary of the University.

### **The Summer School in Agriculture**

There are no examinations for admission to the Summer School in Agriculture, which is held during the same time as the University Summer Session. The primary object of the Summer School in Agriculture is to further agricultural education by aiding those engaged in it. A special circular giving details of the work may be obtained upon application to the Secretary of the University, or to the Secretary of the College of Agriculture.

### **The Winter Courses in Agriculture**

The only requirement for admission to the Winter Courses in Agriculture is that an applicant must be at least eighteen years of age. In order to make the best use of the instruction, a student should have a good common school education. The Winter Courses extend over a period of twelve weeks, beginning in November and ending about the middle of February. A special circular giving details of the work, may be obtained upon application to the Secretary of the University, or to the Secretary of the College of Agriculture.

### **Admission at the Beginning of the Second Term**

Applicants who have fully satisfied the entrance requirements of the College of Arts and Sciences may be admitted as freshmen in that college at the beginning of the second term in February, as well as at the beginning of the first term in September. They will be able to make up a satisfactory schedule of work at the beginning of the second term, since freshman classes in the languages, history, various branches of mathematics, physics, chemistry, and zoology are begun at that time.

Applicants who have fully satisfied the entrance to the College of Agriculture may be admitted as freshmen in that college at the beginning of the second term in February; they will however find it difficult to arrange satisfactory schedules and therefore should, wherever possible, enter in September.

No student will be admitted to either of the colleges of engineering at the beginning of the second term, unless by attendance during the remainder of the college year and during the succeeding Summer Session he can substantially complete the full schedule of work for the freshman year.

Students may not enter the College of Law or the College of Architecture at the beginning of the second term.



Students who desire admission at the beginning of the second term must place their certificates and credentials in the hands of the Registrar not later than January 15th. For January entrance examinations, see page 11.

## ENTRANCE REQUIREMENTS FOR FRESHMEN

Men who desire to begin as freshmen a course leading to a degree in one of the colleges of the University, must be at least sixteen years of age. Women must be at least seventeen years of age. In the College of Law the minimum age for both men and women is, for the four-year course, seventeen years; for the three-year course, eighteen years.

Every applicant for admission must, in one of the four following ways, show that he possesses a satisfactory knowledge of the subjects that are required for admission to the particular college in which he plans to pursue his studies.

1. By passing the required Cornell University Entrance Examinations, see page 11.
2. By passing the College Entrance Examination Board Examinations in the required subjects, see page 21.
3. By passing the necessary Regents' Examinations (for students that have prepared in New York State), see page 22.
4. By presenting an acceptable school certificate, see page 24.

## ENTRANCE SUBJECTS

The subjects and the maximum and minimum amounts of credit in each that may be offered for admission to the University are:

1a. English A. ....	2 units	8a. Ancient History $\frac{1}{2}$ unit or 1 unit
1b. English B. ....	1 unit	8b. Modern History $\frac{1}{2}$ unit or 1 unit
2a. First Year Greek ...	1 unit	8c. Am. His., Civics $\frac{1}{2}$ unit or 1 unit
2b. Second Year Greek ..	1 unit	8d. English History $\frac{1}{2}$ unit or 1 unit
2c. Third Year Greek ..	1 unit	9a. Elementary Algebra .. 1 unit
3a. First Year Latin ...	1 unit	9b. Intermed. Algebra ... $\frac{1}{2}$ unit
3b. Second Year Latin ..	1 unit	9c. Advanced Algebra .. $\frac{1}{2}$ unit
3c. Third Year Latin ..	1 unit	9d. Plane Geometry .... 1 unit
3d. Fourth Year Latin ..	1 unit	9e. Solid Geometry .... $\frac{1}{2}$ unit
4a. First Year German ..	1 unit	9f. Plane Trigonometry.. $\frac{1}{2}$ unit
4b. Second Year German ..	1 unit	9g. Spher. Trigonometry . $\frac{1}{2}$ unit
4c. Third Year German ..	1 unit	10. Physics ..... 1 unit
5a. First Year French ..	1 unit	11. Chemistry ..... 1 unit
5b. Second Year French ..	1 unit	12. Physical Geography .. 1 unit
5c. Third Year French ..	1 unit	13. Biology* ..... 1 unit
6a. First Year Spanish ..	1 unit	14. Botany* .... $\frac{1}{2}$ unit or 1 unit
6b. Second Year Spanish ..	1 unit	15. Zoology* .... $\frac{1}{2}$ unit or 1 unit
6c. Third Year Spanish ..	1 unit	16. Agriculture† ... $\frac{1}{2}$ unit or 1 unit
7a. First Year Italian ..	1 unit	17. Drawing** ... $\frac{1}{2}$ unit or 1 unit
7b. Second Year Italian ..	1 unit	18. Manual Training** .... 1 unit
7c. Third Year Italian ..	1 unit	

In the foregoing list a unit means five prepared recitations a week for one year of study, or 120 sixty minute hours. Two hours of laboratory work is considered equivalent to one hour of prepared recitation.

\*If Biology (1 unit) is offered, neither Botany ( $\frac{1}{2}$  unit) nor Zoology ( $\frac{1}{2}$  unit) may be counted

†Agriculture may not be counted for entrance to Arts and Sciences or to Law.

\*\*Three hundred actual hours are required for one unit. See page 20.

## SUBJECTS AND UNITS REQUIRED BY THE SEVERAL COLLEGES

For admission to the Graduate School and the Medical College, applicants should consult the special announcements of the Graduate School and the Medical College respectively.

The subjects from the foregoing list required by the several colleges for admission to the freshman class are indicated in the following table.

In connection with the foreign language requirements, the following restrictions should be noted:

1. In those colleges where the requirement is 3 units, all of these units must be in a single language. Any number of elective units in a second language will be accepted. If the applicant offers at least 2 units in the second language, any number of units in a third language will be accepted.

2. In the College of Arts and Sciences where the requirement is 5 units, at least 3 of these units must be in some one language and at least 2 units in a second language. Any number of elective units in a third language will be accepted.

ARTS AND SCIENCES		LAW		AGRICUL- TURE	VETER- INARY	ARCHI- TECTURE	CIVIL AND MECH. ENG.
A. B. Course	B. Chem. Course	4 year Course	3 year Course				
English, 3	English, 3	English, 3	A diploma or certificate of graduation from a university or college or a certificate that the applicant has met the entrance requirements and satisfactorily completed one year of study in a university or college of approved standing.	English, 3	English, 3	English, 3	English, 3
Foreign Langs., 5	French, or German, 3	One Foreign Lang., 3		One Foreign Lang., 3		French or German, 3	One Foreign Lang., 3
History, 1	History, 1	History, 1		History, 1	History, Biology, Botany, or Zoology, 1	History, 1	History, 1
Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1		Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1
Elementary Algebra, 1	Elementary Algebra, 1	Elementary Algebra, 1		Elementary Algebra, 1	Elementary Algebra, 1	Elementary Algebra, 1	Elementary Algebra, 1
	Intermed. Algebra, ½					Intermed. Algebra ½	Intermed. Algebra, ½
	Solid Geom., ½					Solid Geom., ½	Solid Geom., ½
	Advanced Algebra, ½					Advanced Algebra, ½	Advanced Algebra, ½
	Plane Trigonom., ½					Plane Trigonom., ½	Plane Trigonom., ½
Elective, 4	Elective, 4	Elective, 6		Elective, 6	Elective, 9	Elective, 4	Elective, 4
TOTAL, 15	TOTAL, 15	TOTAL, 15		TOTAL, 15	TOTAL, 15	TOTAL, 15	TOTAL, 15

The Arts College Entrance Diploma or the Science College Entrance Diploma issued by the Education Department of the State of New York for the passing of Regents Examination will satisfy in full the entrance to the College of Arts and Sciences (A.B. Course), or of Law (4 year course), or of Agriculture.

Candidates for the degree of Bachelor of Chemistry are advised to include, among their entrance subjects, in addition to the full four units in mathematics, also three units of German and two units of French. Those who have not presented these subjects at admission will be required to take them in college, which may result in the extension of their period of residence beyond eight terms. For the present, applicants will be admitted to the College of Arts and Sciences as candidates for the degree of Bachelor of Chemistry, upon satisfaction of the entrance requirements for the course leading to the degree of Bachelor of Arts.

For admission to New York State Veterinary College an applicant must offer a Veterinary Student Certificate issued by the Education Department of the State of New York, Albany, N. Y.

It is strongly recommended that for entrance to Architecture, Civil Engineering, and Mechanical Engineering, at least three of the four elective units be offered in language and history.

French or German is preferred for the three foreign language units required by Civil Engineering, Mechanical Engineering, and Agriculture.

Applicants intending to pursue forestry or landscape art in the College of Agriculture, are recommended to include solid geometry and plane trigonometry in their six elective units.

## 1. CORNELL UNIVERSITY ENTRANCE EXAMINATIONS

Examinations in all subjects required for admission to the University are held in Ithaca and in New York City, in September, at the beginning of the first term (in 1913, September 12-18; in 1914, September 11-17). A fee of \$1 for each subject with a maximum charge of \$5 for all subjects will be charged to all candidates who take these examinations in New York City; the fee must be repeated in the case of candidates who repeat the examinations. Every entrance subject shown in each line of the list on page 9, is for the purposes of this fee, a subject. This fee may be paid at the time of the examination in New York City.

Permits to take the examinations must be secured from the Registrar in Ithaca. The permits show the exact dates and hours of the examinations, and should be obtained at least twenty-four hours before the date of the first examination to be taken. The results of the examinations will be reported to applicants who file stamped and addressed envelopes in accordance with the directions printed on the permits.

No examination of candidates for admission will be held by the University at any other times or places, except that, on application made to the Registrar on or before January 15 in any year, entrance examinations in any of the University entrance subjects may be arranged to be held in Ithaca on or about January 25 of that year. The object of these January entrance examinations is to permit the immediate beginning of the college course by students who complete their preparation at mid-year, and further, to allow at the beginning of the second term the matriculation of students who on account of slight shortages were unable to enter the University in the preceding September. Specimen copies of the September examination papers may be had on application to the Secretary of the University.

Candidates may take all the entrance examinations in the same year, or they may divide them among two or three successive years.

## SUBJECT MATTER OF THE CORNELL ENTRANCE EXAMINATIONS

### ENGLISH

The examination, which will consist mainly of the writing of compositions on assigned subjects, is designed to test the candidate's training in written expression. The examiner will consider particularly the following essentials: spelling, punctuation, and the use of capital letters; grammatical correctness; the idiomatic use of words; and the structure of sentences and paragraphs.

The subjects of the compositions will be taken mainly from the books adopted by the Conference on Uniform Entrance Requirements in English. One or two of the compositions, however, are usually on subjects assumed to be within the candidate's general knowledge and experience.

The examination will be divided into two parts:

#### English A (2 Units)

Two hours devoted to writing compositions on subjects taken from ten of the books in the following list, and on general topics. Substitutes acceptable to the Department of English may be offered.

The following is the list of books for the years 1913 and 1914.\*

Group I (two to be selected)

The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; Virgil's Aeneid. The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

Group II (two to be selected)

Shakespeare's *The Merchant of Venice*; *Midsummer Night's Dream*; *As You Like It*; *Twelfth Night*; Henry the Fifth; Julius Cæsar.

Group III (two to be selected)

Defoe's *Robinson Crusoe*, Part I; Goldsmith's *The Vicar of Wakefield*; either Scott's *Ivanhoe*, or Scott's *Quentin Durward*; Hawthorne's *The House of the Seven Gables*; either Dickens's *David Copperfield*, or Dickens's *A Tale of Two Cities*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; George Eliot's *Silas Marner*; Stevenson's *Treasure Island*.

Group IV (two to be selected)

Bunyan's *Pilgrim's Progress*, Part I; The Sir Roger de Coverley Papers in *The Spectator*; Franklin's *Autobiography* (condensed); Irving's *Sketch Book*; Macaulay's *Essays on Lord Clive and Warren Hastings*; Thackeray's *English Humourists*; Selections from Lincoln, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and the Letter to Horace Greeley, along with a brief memoir or estimate; Parkman's *Oregon Trail*; either Thoreau's *Walden*, or Huxley's *Autobiography* and selections from *Lay Sermons*, including the addresses *On Improving Natural Knowledge*, *A Liberal Education*, and *A Piece of Chalk*; Stevenson's *Inland Voyage and Travels with a Donkey*.

Group V (two to be selected)

Palgrave's *Golden Treasury* (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns; Gray's *Elegy in a Country Churchyard* and Goldsmith's *The Deserted Village*; Coleridge's *The Ancient Mariner* and Lowell's *The Vision of Sir Launfal*; Scott's *The Lady of the Lake*; Byron's *Childe Harold*, Canto IV, and *The Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series) Book IV, with especial attention to Wordsworth, Keats, and Shelley; Poe's *The Raven*, Longfellow's *The Courtship of Miles Standish*, and Whittier's *Snow Bound*; Macaulay's *Lays of Ancient Rome* and Arnold's *Sohrab and Rustum*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa—Down in the City*.

\*The list of books for 1915-19 may be obtained from the Secretary of the Conference on Uniform Entrance Requirements in English, Mr. Wilson Farrand, Newark Academy, Newark, N. J. (Inclose two cents in stamps.)

**English B (1 Unit)**

One hour devoted to questions on the books named below.

This part of the examination will be upon subject matter, form, and structure, and presupposes the thorough study of each of the books named. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong. Substitutes acceptable to the Department of English may be offered.

The following is the list of works for the years 1913 and 1914:\*

Shakespeare's *Macbeth*; Milton's *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

**GREEK****2a. First Year Greek (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during one year.

**2b. Second Year Greek (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during two years and has read the first four books of Xenophon's *Anabasis*.

**2c. Third Year Greek (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during three years, and has read the first three books of Homer's *Iliad* (omitting II, 494-end), devoting necessary attention to Homeric constructions, forms, and prosody. The candidate will be tested also on translation of English into Greek, principally of detached sentences based on the first two books of the *Anabasis*.

**LATIN****3a. First Year Latin (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during one year.

**3b. Second Year Latin (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during two years, and that he has read four books of Caesar's *Gallic War*.

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\*See note on page 12.

**3c. Third Year Latin (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during three years, and that he has read six orations of Cicero. The candidate will be tested also on translation into Latin of detached sentences and very easy continuous prose based on Cæsar and Cicero.

**3d. Fourth Year Latin (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during four years, and that he has read the first six books of Virgil's Aeneid, devoting necessary attention to prosody, versification in general, and the dactylic hexameter.

**GERMAN**

The examination in Second Year German covers the examination in First Year German; the examination in Third Year German covers the examinations in First Year German and Second Year German.

**4a. First Year German (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during one year.

**4b. Second Year German (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during two years.

**4c. Third Year German (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during three years.

For more specific recommendations as to the nature and character of the three years' preparatory work in German, including texts to be read, applicants are referred to the publications of the College Entrance Examination Board.

**FRENCH**

The examination in Second Year French covers the examination in First Year French; the examination in Third Year French covers the examinations in First Year French and Second Year French. The attention of teachers is called to the report of the Committee of Twelve of the Modern Language Association of America, published by D. C. Heath & Company, Boston.

**5a. First Year French (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during one year.

**5b. Second Year French (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during two years.

**5c. Third Year French (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during three years.

For more specific recommendations as to the nature and character of the three years' preparatory work in French, including texts to be read, applicants are referred to the publications of the College Entrance Examination Board.

**SPANISH**

The examination in Second Year Spanish covers the examination in First Year Spanish; the examination in Third Year Spanish covers the examinations in First Year Spanish and Second Year Spanish. The attention of teachers is called to the report of the Committee of Twelve of the Modern Language Association of America, published by D. C. Heath & Company, Boston.

**6a. First Year Spanish (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during one year.

**6b. Second Year Spanish (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during two years.

**6c. Third Year Spanish (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during three years.

For more specific recommendations as to the nature and character of the three years' preparatory work in Spanish, including texts to be read, applicants are referred to the publications of the College Entrance Examination Board.

**ITALIAN**

The examination in Second Year Italian covers the examination in First Year Italian; the examination in Third Year Italian covers the examinations in First Year Italian and Second Year Italian. The attention of teachers is called to the report of the Committee of Twelve of the Modern Language Association of America, published by D. C. Heath & Company, Boston.

**7a. First Year Italian (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during one year.

**7b. Second Year Italian (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during two years.

**7c. Third Year Italian (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during three years.

## HISTORY

The examinations in history will be so framed as to require comparison and the use of judgment on the pupil's part, rather than the mere use of memory. The examinations will presuppose the use of good textbooks, collateral reading, and practice in written work. Geographical knowledge will be tested by direct questions or by requiring the location of places and movements on an outline map.

### 8a. Ancient History ( $\frac{1}{2}$ Unit or 1 Unit)

For a full unit of credit, the subject of the examination will be ancient history with special attention to Greek and Roman history, but including also the outlines of ancient oriental history and of early medieval history to the death of Charles the Great (814 A. D.). For a half unit of credit, applicants may be examined on either of the following: a. Greek history to the death of Alexander the Great; b. Roman history to 476 A. D.

### 8b. Modern History ( $\frac{1}{2}$ Unit or 1 Unit)

For a full unit of credit, the subject of the examination will be medieval and modern European history, from the death of Charles the Great to the present time. For a half unit of credit, applicants may be examined on either of the following: a. medieval history; b. modern European history.

### 8c. American History and Civil Government ( $\frac{1}{2}$ Unit or 1 Unit)

American history from the European discovery of the new world, with especial attention, in the seventeenth and eighteenth centuries, to the British Empire in America. After the Revolution, the history and civil government of the United States only need be studied.

### 8d. English History ( $\frac{1}{2}$ Unit or 1 Unit)

English history, from the advent of the English in Britain, in the fifth century, to our own day.

## MATHEMATICS

The requirements in mathematics are substantially as defined by the College Entrance Examination Board.

For students who expect to continue their mathematical studies especially in the engineering colleges, it is not sufficient to have once known the preparatory mathematical subjects. The student must know them at the time he begins his work in the University. It is therefore very important that these subjects be carefully reviewed just prior to entrance.

A knowledge of the metric system of weights and measures is assumed in all the examinations in mathematics.

### 9a. Elementary Algebra (1 Unit)

The examination will require a thorough knowledge of the four fundamental operations; factoring, including the determination of the highest common factor and the solution of equations by factoring; fractions, including complex fractions,



and an elementary treatment of ratio and proportion; the binomial theorem for positive integral exponents (without proof); radicals, including the extraction of the square root of polynomials and of numbers; the solution of equations of the first degree (numerical and literal, integral and fractional) involving one or more unknown numbers; easy quadratic equations, solved both by factoring and by completing the square; and simple cases of simultaneous equations one of which is quadratic.

Emphasis is laid upon translating verbally stated problems into equations, solving these, and interpreting the results.

#### **9b. Intermediate Algebra ( $\frac{1}{2}$ Unit)**

The highest common factor by division; surds and imaginary numbers, including the square root of binomial surds and the cube root of polynomials and of numbers; the theory of quadratic equations, including maximum and minimum; the solution of equations and problems (in one or more unknown numbers) which can be made to depend upon quadratics; the theory of exponents; the proof of the binomial theorem for positive integral exponents; graphical representation and solution of equations; and ratio, proportion, variation, and the progressions.

#### **9c. Advanced Algebra ( $\frac{1}{2}$ Unit)**

The examination will require such knowledge as may be gained from one of the better textbooks on this subject, including, in addition to a thorough review of elementary algebra, permutations and combinations, irrational and complex numbers with graphical representation of sums and differences of the latter, and an elementary treatment of determinants including the use of minors and the solution of linear equations.

The solution of numerical equations of higher degree, and so much of the theory of equations as is necessary for their treatment, including graphical methods, Descartes's rule of signs and Horner's method, but not Sturm's functions of multiple roots.

Special attention should be paid, throughout the course, to applications under each topic, and emphasis should be laid upon accuracy and precision.

#### **9d. Plane Geometry (1 Unit)**

The usual theorems and constructions contained in the better textbooks on this subject, including the general properties of plane rectilinear figures, the circle and the measurement of angles, similar polygons, areas, regular polygons, the measurement of the circle, the solution of original exercises, including loci problems, and the mensuration of lines and plane surfaces.

#### **9e. Solid Geometry ( $\frac{1}{2}$ Unit)**

The usual theorems and constructions contained in the better textbooks on this subject, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle; the solution of original exercises including loci problems, and the mensuration of surfaces and solids.

**9f. Plane Trigonometry ( $\frac{1}{2}$  Unit)**

The definitions and relations of the six trigonometric functions as ratios; circular measurement of angles; proofs of the principal formulas, especially those for the sine, cosine, and tangent of the sum or difference of any two angles whatever, and of double angles and half angles; also the product expressions for the sum of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas, the use of inverse functions, the solution of trigonometric equations of simple character, the theory and use of logarithms (not including logarithmic series), and the solution of right and oblique triangles, together with simple applications.

**9g. Spherical Trigonometry ( $\frac{1}{2}$  Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during a half-year.

**10. PHYSICS (1 Unit)**

The examination in physics assumes that the student has completed a course in school of at least five hours a week for one year, not less than half of which time should have been devoted to individual laboratory practice, mainly quantitative in nature. He should be able to solve simple numerical problems involving elementary principles. No special outline and no arbitrary list of experiments is prescribed. It is expected that the work will be fairly well distributed among the various topics and that it will not differ to any considerable extent from the requirements of the College Entrance Board.

**11. CHEMISTRY (1 Unit)**

The examination in chemistry assumes that the student has completed a full year's course in this subject. This course should include lecture table demonstrations, recitations from a suitable textbook, and individual laboratory work comprising at least forty exercises (eighty actual hours).

The instruction should be thorough rather than comprehensive, and to this end, the ground to be covered should be restricted to:

(a) The study of the preparation and properties of the following elements: hydrogen, oxygen, nitrogen, chlorine, bromine, iodine, carbon, sulphur, silicon, phosphorus, sodium, calcium, copper, aluminum, and iron; the preparation and properties of the more important compounds of these elements; the consideration of certain important topics, such as the atmosphere, combustion, acids, bases, salts, oxidation, reduction, crystallization, nascent state, catalysis, electrolysis, symbols, formulas, equations, valency, solution, and the manufacture of illuminating gas.

Only such commercial processes as illustrate fundamental principles should be considered.

(b) A careful and thorough study of the important laws and principles pertaining to the following subjects: combining proportions by weight and volume; variation of gas volumes with changes in temperature or pressure; conservation

of matter and energy; structure of matter (atomic theory). It is unwise to accord the subjects mass action, equilibrium, and ionization more than mere mention in an elementary course. Moreover, the instruction should not be extended to cover the elements of qualitative analysis, for the time at the disposal of the high-school teacher is usually no more than sufficient to cover the field of elementary inorganic chemistry.

The student should keep a notebook record of his laboratory experiments and this should be written up in the laboratory at the time the experiments are performed.

## 12. PHYSICAL GEOGRAPHY (1 Unit)

The ground covered in the examination on textbook work is essentially that outlined by the College Entrance Examination Board, the principal topics being the earth as a planet, the ocean, the atmosphere, and the lands, as treated in the more modern standard textbooks on physical geography. The emphasis of the instruction in the preparatory school should have been on the human relationships to physiographic conditions.

Some work with books of reference is assumed to have been done in the preparatory school, and the examination may test the student with reference thereto; but a certification of the amount of such work, signed by the teacher, will be taken as evidence and will be considered as a part of the examination. No definite list of reference books is prescribed. In general it may be said, however, that books or papers relating to the physiography of the region where the study is carried on, or those relating to phenomena illustrated in that region, should certainly be included. The standard textbooks give ample references to suitable books and papers bearing on the various physiographic provinces and phenomena of the country.

Two periods a week for an entire year should have been devoted to laboratory and field work. The laboratory work should be divided between the study of the atmosphere and the study of the land. The student should be familiar with weather maps and topographic maps, and be able to interpret them. He should be able to tell what physiographic forms are represented on typical maps. The student should do enough field work to understand the physiography of the region where he studies. A notebook record of the laboratory and field work should be carefully kept.

For further suggestions concerning laboratory work, the Syllabus of the College Entrance Examination Board, the Regents' Syllabus for the Schools of New York State, and the Guide for Laboratory Geography Teaching, Macmillan Company, New York City, may be consulted.

## 13. BIOLOGY (1 Unit)

The examination assumes a knowledge on the part of the student that should be gained by the intelligent study of the subject for five periods a week during a year. A large part of this time should have been devoted to laboratory practice. Laboratory notes and drawings should be carefully made throughout the course.

**14. BOTANY ( $\frac{1}{2}$  Unit or 1 Unit)**

The examination assumes a knowledge of the general laws and fundamental principles of plant nutrition, assimilation, and growth, as exemplified by plants chosen from the different groups, as well as of the general comparative morphology and the broader relationship of plants.

The following synopsis will suggest the topics of preparatory study: the general fundamental principles of plant physiology; general morphology, including form, methods of reproduction, propagation, etc., of selected representatives of the algae, fungi, liverworts, mosses, ferns, and seed plants; special morphology of the higher plants.

**15. ZOOLOGY ( $\frac{1}{2}$  Unit or 1 Unit)**

The examination assumes a knowledge on the part of the student that should be gained by the intelligent study of the subject for five hours a week during a half year or one year. The greater part of this time should have been devoted to laboratory practice in the observation of living forms, and to dissection. Laboratory notes and drawings should be carefully made throughout the course.

**16. AGRICULTURE ( $\frac{1}{2}$  Unit or 1 Unit)**

The examination assumes that the candidate has done the equivalent of the work outlined in the Syllabus for Secondary Schools—Agriculture, published by the New York State Education Department, 1910 (Albany), or in a Secondary Course in Agronomy, Circular 77 (revised), 1908, Office of Experiment Stations, United States Department of Agriculture. Agriculture may not be used for entrance to the College of Arts and Sciences or the College of Law.

**17. DRAWING ( $\frac{1}{2}$  Unit or 1 Unit)**

The entrance requirement in drawing includes the drawing of simple, plane, and solid geometrical figures, simple still life and groups or pieces of machinery, and a fair knowledge of the rules of perspective and light and shade as applied in freehand sketching. The preparation may also include the drawing of simple pieces of architectural ornament, decoration, and simple plant forms, etc. This requirement represents about 300 hours of actual work (which may be entirely freehand drawing, entirely mechanical drawing, or part freehand and part mechanical) for the credit of 1 unit, or about 150 hours for the half unit.

Candidates taking the examination must present samples of their work, and a teacher's statement showing time and proficiency.

**18. MANUAL TRAINING (1 Unit)**

Examinations will be offered in woodworking, forging, foundry work, and machine work. To satisfy the entrance requirement the applicant must have performed not less than 300 hours of actual work in the subjects in which the examination is taken. Candidates must present a teacher's statement of the time actually spent in the work and of the proficiency attained therein.

## 2. COLLEGE ENTRANCE EXAMINATION BOARD EXAMINATIONS

The examinations of the College Entrance Examination Board, held in Ithaca and elsewhere in June of each year, are accepted as the full equivalents of the Cornell University Entrance Examinations in the corresponding subjects.

The following table shows the Cornell University entrance subjects with the equivalent subjects of the College Entrance Examination Board.

Cornell University Entrance Subjects	Equivalent College Entrance Board Subjects
1a. English A.	English A.
1b. English B.	English B.
2a. First Year Greek.	Greek A, 1 and 2.
2b. Second Year Greek.	Greek B.
2c. Third Year Greek.	Greek C and F.
3a. First Year Latin.	Latin A, 1; and B; or Latin 3=2 units.
3b. Second Year Latin.	Latin C and A, 2; or Latin 1, 2, 4=3 units.
3c. Third Year Latin.	Latin D; or Latin 1, 2, 4, 5=4 units.
3d. Fourth Year Latin.	
4a. First Year German.	German A.
4b. Second Year German.	German B.
4c. Third Year German.	
5a. First Year French.	French A.
5b. Second Year French.	French B.
5c. Third Year French.	
6a. First Year Spanish.	Spanish.
6b. Second Year Spanish.	
6c. Third Year Spanish.	
7a. First Year Italian.	
7b. Second Year Italian.	
7c. Third Year Italian.	
8a. Ancient History.	History A.
8b. Modern History.	History B.
8c. Amer. History, Civics.	History D.
8d. English History.	History C.
9a. Elementary Algebra.	Mathematics A, 1.
9b. Intermed. Algebra.	Mathematics A, 2
9c. Advanced Algebra.	Mathematics B.
9d. Plane Geometry.	Mathematics C.
9e. Solid Geometry.	Mathematics D.
9f. Plane Trigonometry.	Mathematics F.
9g. Spher. Trigonometry.	
10. Physics.	Physics.
11. Chemistry.	Chemistry.
12. Physical Geography.	Geography.
13. Biology.	
14. Botany.	Botany.
15. Zoology.	Zoology.
16. Agriculture.	
17. Drawing.	Drawing.
18. Manual Training.	

All certificates of the College Entrance Examination Board should be sent by mail to the Registrar of Cornell University, Ithaca, New York, as early as possible, in the summer before the applicant intends to enter. To insure consideration, they should reach him not later than the first of September.

The College Entrance Examination Board is unwilling to receive either notebooks or drawings. In connection with every examination in botany, chemistry,

drawing, geography, physics, or zoology the Board requires, at the time of the examination, a teacher's certificate covering the candidate's preparation. Blank forms of the certificates required may be obtained from the Secretary of the College Entrance Examination Board upon application. The Board requires no notebooks in connection with its examination in history and no exercise books in connection with its examinations in English.

The examinations of the College Entrance Examination Board will be held at Ithaca, and at various other places, June 15-20, 1914. A list of places at which the examinations will be held will be published about March 1, 1914, by the Secretary of the Board. Requests that the examinations be held at particular points, to receive proper consideration, should be submitted to him not later than February 1, 1914.

The examination fee at points in the United States and Canada is five dollars; at points outside of the United States and Canada, fifteen dollars, for each candidate examined.

Each candidate that desires to take the examinations of the Board must make application to its Secretary upon a blank to be obtained gratis from him. Applications for examinations at points in the United States on or east of the Mississippi River must reach the Secretary of the Board not later than Monday, June 1, 1914; at other points in the United States and in Canada, not later than May 25, 1914; at points outside of the United States and Canada, not later than May 11, 1914.

Applications received later than the prescribed dates will be accepted when it is possible to arrange for the examination of the candidates, but only upon payment of five dollars in addition to the usual examination fee. Candidates that file belated applications do so at their own risk.

The constitution of the Board and detailed definitions of the requirements in each subject in which the Board holds examinations, together with lists of experiments in the natural sciences, are given in a circular of information published by the Board each year about the first of December. A single copy will be sent to any teacher without charge. In general, however, a charge of ten cents, which may be remitted in postage stamps, will be made for a copy of the document.

Teachers, parents, and candidates for examination who desire more specific information concerning the work of the Board, as well as those who wish to procure blank forms of application for examination, are requested to address College Entrance Examination Board, P. O. Sub-Station 84, New York, N. Y.

### 3. ENTRANCE BY REGENTS' EXAMINATIONS

The Regents' examinations of the Education Department of the State of New York, are accepted as the full equivalents of the Cornell University Entrance Examinations in the corresponding subjects.

All Regents' credentials should be sent by mail to the Registrar of Cornell University, Ithaca, New York, as early as possible in the summer before the applicant intends to enter. To insure consideration, they should reach him not later than the first of September.

The following table shows the Cornell University entrance subjects with the corresponding Regents' equivalents:

Cornell University Entrance Subjects	Regents' Equivalents
1a. English A.	First, Second, and Third Year English.
1b. English B.	Fourth Year English.
2a. First Year Greek.	First Year Greek.
2b. Second Year Greek.	Second Year Greek or Greek Grammar and Xenophon.
2c. Third Year Greek.	Third Year Greek or Greek Composition and Homer.
3a. First Year Latin.	First Year Latin.
3b. Second Year Latin.	Second Year Latin or Latin Grammar and Cæsar.
3c. Third Year Latin.	Third Year Latin or Latin Composition and Cicero.
3d. Fourth Year Latin.	Fourth Year Latin or Virgil.
4a. First Year German.	First Year German.
4b. Second Year German.	Second Year German.
4c. Third Year German.	Third Year German.
5a. First Year French.	First Year French.
5b. Second Year French.	Second Year French.
5c. Third Year French.	Third Year French.
6a. First Year Spanish.	First Year Spanish.
6b. Second Year Spanish.	Second Year Spanish.
6c. Third Year Spanish.	Third Year Spanish.
7a. First Year Italian.	First Year Italian.
7b. Second Year Italian.	Second Year Italian.
7c. Third Year Italian.	
8a. Ancient History.	Ancient History 3-5 counts = $\frac{1}{2}$ -1 unit.
8b. Modern History.	Modern History 3-6 counts = $\frac{1}{2}$ -1 unit.
8c. Am. History, Civics.	American History and Civics 5 counts = 1 unit.
8d. English History.	Hist. of Great Britain and Ireland 3-5 counts = $\frac{1}{2}$ -1 unit.
9a. Elementary Algebra.	Elementary Algebra.
9b. Intermed. Algebra.	Intermediate Algebra.
9c. Advanced Algebra.	Advanced Algebra.
9d. Plane Geometry.	Plane Geometry.
9e. Solid Geometry.	Solid Geometry.
9f. Plane Trigonometry.	Plane Trigonometry.
9g. Spher. Trigonometry.	Spherical Trigonometry.
10. Physics.	Physics 5 counts.
11. Chemistry.	Chemistry 5 counts.
12. Physical Geography.	Physical Geography 5 counts.
13. Biology.	Biology 5 (Physiology $2\frac{1}{2}$ , with Bot. $2\frac{1}{2}$ or Zool. $2\frac{1}{2}$ .)
14. Botany.	Botany $2\frac{1}{2}$ -5 counts = $\frac{1}{2}$ -1 unit.
15. Zoology.	Zoology $2\frac{1}{2}$ -5 counts = $\frac{1}{2}$ -1 unit.
16. Agriculture.	Agriculture 3 counts = $\frac{1}{2}$ unit.
17. Drawing.	Drawing 3-6 counts = $\frac{1}{2}$ -1 unit.
18. Manual Training.	Manual Training 6 counts.

A Regents' diploma will admit to the University only when the subjects satisfy the entrance to the college concerned (see page 10). But the Arts College Entrance Diploma and the Science College Entrance Diploma issued by the Education Department of the State of New York for passing Regents examinations satisfy in full the requirements for admission to the College of Arts and Sciences, the College of Agriculture, and the four-year course of the College of

Law. The Veterinary Student Certificate issued by the Education Department of the State of New York admits to the Veterinary College.

Notebooks and teachers' statements are in general not required, and should not be sent unless they are in individual cases specifically asked for by the Registrar of the University.

The Education Department, Albany, New York, will on request issue to any student a statement showing all subjects passed by him to date. All Regents' credentials should be secured as soon as possible after the examinations have been passed and should be forwarded immediately to the Registrar of the University. They should not be retained for personal presentation in Ithaca.

Candidates for admission on Regents' credentials should not assume that their credentials will be accepted; on the contrary, the candidates should appear at the Cornell Entrance Examinations held in Ithaca and in New York City in September unless they have been formally notified of the acceptance of their credentials. Entrance examinations will be given in September and January only, as specified on page 11.

Admission on Regents' credentials is in all cases provisional. If, after admission to the University, a student fails in any subject dependent upon an entrance subject for which Regents' credentials have been accepted, credit for that entrance subject may be cancelled.

#### 4. ENTRANCE BY SCHOOL CERTIFICATE

Certificates of work done in public or in private schools, in or out of the State, may be accepted in lieu of passing entrance examinations, if the University authorities are satisfied regarding the standing of the school and if the applicant has completed a full regular course in the school and has been duly graduated after at least one year in the school.

The University does not engage in advance to accept the certificate of a school and the previous acceptance of certificates does not establish a permanent right to acceptance, but merely raises the presumption that similar certificates will be accepted.

Three separate steps must be taken before a student of any school will, on its certificate, be admitted to a college of Cornell University:

(a) The principal of the school must by formal application secure the certificate privilege for his school; (b) The principal of the school must submit a school certificate duly filled out for the individual candidate for admission; (c) The candidate himself must make a personal application for admission to the particular college of Cornell University in which he intends to study. Official blanks for each of the above purposes may be obtained from the Registrar of Cornell University and when duly filled out should be returned to him.

The school certificate should be forwarded by the principal as soon as possible after the graduation of the candidate. The application for the certificate privilege should, unless previously granted, accompany the school certificate. The candidate's personal application for admission to a particular college should



be sent as early as possible after the candidate has decided in which college of Cornell University he desires to study. The application will be considered merely as a declaration of intention, and will constitute no obligation upon the prospective student.

The school certificate should include all the subjects that the candidate has satisfactorily completed in the school, whether or not they are required by the particular college in which the candidate proposes to study; neglect to comply with this regulation may entail serious inconvenience and disappointment to the student. The school certificate may include subjects in which an examination has been passed for admission to the school. No additional or supplementary certification will be considered after the first college term.

If the candidate has not had five periods a week for one year in any subject but has had not less than 120 actual hours (7,200 minutes) of recitation in the subject and the school desires to recommend him for one unit of credit, the school certificate must show the exact number of actual hours of recitation.

Notebooks are in general not required to be submitted, and should not be sent unless they are in individual cases specifically asked for by the Registrar.

Subjects in which the work has been done privately outside of the regular school curriculum, even if under the direction of teachers in the school, should not be included in the certificate.

The candidate must take his entrance examinations at Cornell University (in Ithaca or in New York City) in September if by that time he has not been notified that his school certificate has been accepted. Entrance examinations will be given in September and January only, as specified on p. 11.

If a student has failed to pass in any entrance subject the Cornell or any other University Entrance Examination, or the College Board Entrance Examination, or the Regents' examination, he will not thereafter be allowed to offer a school certificate in that subject unless, subsequent to his failure, he shall have pursued the subject regularly in class for the full time required and shall have done the full amount of work required for entrance in the subject.

Admission on school certificates is in all cases provisional. If, after admission to the University, a student fails in any subject dependent upon an entrance subject for which a school certificate has been accepted, credit for that entrance subject may be cancelled.

All communications and requests in connection with admission on school certificate should be addressed to the Registrar of the University. The University will welcome any special or personal information that school principals care to furnish in connection with individual applicants for admission.

## SURPLUS ENTRANCE CREDIT

Credit towards a degree for work done in a preparatory school, upon subjects which may be offered for entrance to the University, will be given to those students only who, in addition to satisfying all entrance requirements, pass separate examinations in the subjects for which they seek college credit. These examinations will cover substantially the same ground as the University courses in the corresponding subjects. An applicant that desires a college credit examination of this kind must apply to the Registrar as early as possible, and in no case

later than September 9, 1913, specifying which fifteen units he intends to offer in satisfaction of the entrance requirements, and upon what other entrance subjects he wishes to be examined for credit.

In case he fails to satisfy the entrance requirements in any one or more of the units upon which he has proposed to enter, but passes the credit examination in any other subject or subjects, he may use the latter towards satisfying the entrance requirements, but in that case he cannot also receive college credit therefor. The college credit examinations will be held in September, on the dates set for the entrance examinations in the same subjects.

### ADMISSION FROM OTHER COLLEGES

A student who, having already attended some college or university, desires to be admitted to a regular course in some college of Cornell University, should file with the Registrar of Cornell University, on an official blank to be obtained from him, a formal application for admission to one of the colleges of the University, along with an official certificate from the college or university already attended, of (1) his honorable dismissal, (2) his entrance examinations in detail, (3) his terms of attendance and the amount of work that he has completed, and (4) a detailed statement of the courses pursued. He should send also a catalogue of the institution, writing on it his name and marking the entrance requirements that he has satisfied and each subject that he has completed. All applicants for admission from other colleges should consult the special announcement of the college in which they propose to study.

### ADMISSION OF SPECIAL STUDENTS

A person, ordinarily one of considerable maturity, may under certain circumstances, even without satisfying the entrance requirements, be admitted to one of the colleges of Cornell University as a special student not candidate for a degree. The applicant must give evidence of ability to do creditable work in the college and his application for admission must be recommended by the department in which he proposes to do the main part of his work.

If a person admitted as a special student without satisfying the entrance requirements subsequently satisfies these requirements, he may be graduated under the ordinary regulations that obtain in the particular college in which he is studying. He will not be permitted, however, to make up deficiencies in entrance subjects by attending University instruction in those subjects.

Candidates for admission as special students must file their applications directly with the dean of the particular college in which they propose to study.

Special students in the College of Arts and Sciences must be at least twenty-three years of age; in the College of Law, in the College of Architecture, and in Sibley College, twenty-one years of age.

The College of Civil Engineering admits as special students persons at least twenty-one years of age that are college graduates and that intend to pursue advanced work without being candidates for a degree. The Sibley College of Mechanical Engineering requires that its special students shall have had engineering experience and the equivalent of the mathematics specified for the admission of regular students.

Special students in the College of Agriculture must have had two full years of recent farm experience and, unless they can satisfy all the entrance requirements for the regular course, must be at least twenty-one years of age.

## DEPARTMENT OF MILITARY SCIENCE AND TACTICS

**Four-Year Course.** All men students, candidates for a baccalaureate degree in a four-year course, must, in addition to the scholastic requirements for a degree, take throughout the first year of their course, three actual hours a week in the Department of Military Science and Tactics.

**Three-Year Course.** All men students, candidates for a baccalaureate degree in a three-year course, shall, throughout the first year of their course, take three actual hours a week either in the Department of Military Science and Tactics, or in the Department of Physical Culture, as they may elect.

Students in the New York State Veterinary College are temporarily exempt from the above requirements.

Any properly qualified member of the Cornell University Cadet Corps who has satisfactorily passed the first year of his university course, may, upon the recommendation of the Commandant and the nomination of the President of the University, be commissioned accordingly by the University Faculty.

The commissioned officers are paid. Fifteen senior assistants receive free tuition and \$100 annually. The other twenty-three assistants receive free tuition.

Each cadet is required to furnish himself with a uniform and cap, the total cost of this equipment being \$15.

Instruction includes practical infantry training, and the Department aims to train men so that they may become efficient company officers of infantry volunteer troops in time of war.

Practical and theoretical instruction is given in band music, and properly qualified students may substitute this course for the required course in Military Training.

All students may elect drill during the four years at the University.

## DEPARTMENT OF PHYSICAL CULTURE

**Four-Year Course.** All men students, candidates for a baccalaureate degree in a four-year course, shall, in addition to the scholastic requirements and the requirements of the Department of Military Science and Tactics, take throughout the second year of their course, three actual hours a week either in the Department of Physical Culture, or in the Department of Military Science and Tactics.

All women students, candidates for a baccalaureate degree in a four-year course, must take throughout the first two years of their course, two and a half actual hours a week in the Department of Physical Culture.

**Three-Year Course.** All men students, candidates for a baccalaureate degree in a three-year course, shall, throughout the first year of their course, take three actual hours a week either in the Department of Physical Culture or in the Department of Military Science and Tactics, as they may elect.

All women students, candidates for a baccalaureate degree in a three-year course, must throughout the first year of their course, take two and a half actual hours a week in the Department of Physical Culture.

Students in the New York State Veterinary College are temporarily exempted from the above requirements.

The required Physical Training of the sophomore year must be taken during that year (i. e. must be completed two years before graduation); otherwise the student will not be permitted to register again in the University, without the consent of the University Faculty.

It is the aim of the University to encourage participation in athletics on the part of all students rather than on the part of the few, as it is believed that in well regulated athletics is found, for the great majority of college men, the best solution of the problems of rational and effectual training. Permission is therefore given to the student taking work in this department, to select his own form of exercise within certain limitations, provided he is found, upon examination, to be physically sound. He may try for an athletic team, take a walk in the country according to a schedule of walks announced weekly, or indulge his tastes in other outdoor forms of recreation, such as tennis, golf, etc.

## THE BEGINNING OF THE COLLEGE COURSE

The first formal step at the beginning of the college career is the act of registration in the University. September 22 and 23 are the days for the registration of new students in 1913; in 1914, the corresponding dates are September 21 and 22.

Each candidate, to be entitled to register, must present a formal registration permit, which is a card issued by the Registrar and sent to the candidate as soon as the requirements for entrance have been satisfied. This registration permit is ordinarily sent direct to the home address of the prospective student if he is entering by school certificate, College Entrance Board examinations, or Regents' credentials. If the candidate is entering by the September Cornell examinations, in New York City or in Ithaca, the registration permit is ordinarily sent to his local address as soon as the requisite examinations have been passed.

If the candidate is entitled to this registration permit but has for any reason not received it by September 22 (in 1914, September 21), he should call in person at the Registrar's office and procure it.

The registration permit bears on its face all the necessary directions for the candidate's registration in the University.

No candidate will be allowed to register after September 23 (in 1914, September 22) unless he has first obtained the special permission of the dean of the college in which he purposes to study.

With a student's first registration in the University there begins for him a period of greater personal responsibility than he has ever before been called upon to face. He should realize that the success of his college career depends in large measure on his individual ideals, his individual industry, and his individual determination to make the best possible use of his opportunities. Cornell University offers its equipment; its officers of instruction and administration stand ready to help with their personal encouragement and advice; but after all, the ultimate responsibility for success or failure is on the individual student himself.

With reference to details of curriculum, subjects to be studied, requirements for the degree, etc., the prospective student should consult the special announce-

ment of the particular college that he intends to enter. Several of the colleges publish hand books of information for their students. These may be obtained from the deans of the several colleges.

In the College of Arts and Sciences, where there is a considerable range of choice in studies to be pursued, an adviser from the teaching staff will be assigned to each freshman and each sophomore to consult with him in regard to his studies. In the other colleges, where there is a more or less fixed curriculum, this control is exercised directly by the dean of the college or by a special class adviser.

No college in the University undertakes to send to parents or guardians regular reports of the progress and standing of the students under its control. Students in the University are accepted as responsible young men and young women and the constant effort is made to inspire and develop in them the sense of this personal responsibility and the realization that the success or failure of their college course is, in the last analysis, a matter of their own making.

### PAYMENTS TO THE UNIVERSITY

#### ANNUAL TUITION FEES AFTER JULY 1, 1914

	Regular Students	Special Students
Graduate School .....	See page 30	
Medical College .....	\$150	\$150
College of Arts and Sciences .....	125	125
College of Law .....	125	125
Veterinary College ( For free tuition ) .....	100	125
College of Agriculture ( see page 30.... ) .....	125	125
College of Architecture .....	150	150
College of Civil Engineering .....	150	150
Sibley College .....	150	150
Summer Session .....		\$30
Summer School in Agriculture .....		30
Winter Courses in Agriculture .....		25*

Students upon registering become liable for the tuition fee for the term.

The \$100 tuition is payable in installments of \$55 at the beginning of the first term and \$45 at the beginning of the second term; the \$125 fee is payable similarly in installments of \$70 and \$55; the \$150 fee, in installments of \$85 and \$65; in the Medical College in New York City, the entire fee is payable at the beginning of the year.

The tuition of any student who withdraws within twenty days after the first registration day for reasons satisfactory to the Treasurer and the Registrar, may be refunded.

A student who withdraws from the University, for reasons satisfactory to the Treasurer and the Registrar, on or before November 15 or April 1, may have refunded one-half of the tuition fee of the current term.

Students registering after December 1 shall pay for the balance of the first term two-thirds of the tuition fee for the first term. Students registering after April 1 shall pay for the balance of the second term two-thirds of the tuition fee for the second term.

\*Tuition is free to students in the Summer School in Agriculture and in the Winter Courses in Agriculture, who are bona fide residents of New York State.

**Graduate School.** Graduate students who are candidates for an advanced degree are charged tuition at the tuition rate charged in the college in which the major subject is taken. In the case of graduate students who are not candidates for a degree, tuition is charged pro rata, the rate in each case being that of the college in which the subject is taught.

Tuition is free to graduate students for work in the State College of Agriculture. For Graduate School minor subjects taken outside the College of Agriculture, when the major subject is taken in the College of Agriculture, pro rata tuition (one-sixth for each minor) of the college in which the minors are taken, will be charged. For Graduate School minors taken in the College of Agriculture by students whose major subject is in another college, pro rata tuition (one-sixth for each minor) will be deducted.

**Free Tuition.** Tuition is free to students with State Scholarships; to New York State students in the State Veterinary College; to New York State undergraduate students in the State College of Agriculture; to graduate students for work in the State College of Agriculture.

No student who has received free tuition under the above regulations will be allowed to change to a course for which tuition is charged without first paying to the Treasurer of the University tuition fees for the full time spent in the free tuition course.

### OTHER FEES

A matriculation fee of \$5 is charged all students on entering the University. Every student (except those registered in the Medical College in New York City) is charged an Infirmary fee of \$3 a term, payable at the beginning of each term. Students in the winter courses in agriculture, etc. are required to pay the Infirmary fee for one term. In return for the Infirmary fee, any sick student is on his physician's certificate admitted to the Infirmary, and is given without further charge a bed in a ward, board, and ordinary nursing, for a period not exceeding two weeks in any one academic year.

Extra charges are made for private rooms, special foods, and special nurses. If a sick student who has not received two weeks' service in the year is refused admittance to the Infirmary, by reason of lack of accommodation or he is not cared for elsewhere by the University, he is entitled to a refund of the fee for both terms.

Students in the University Summer Session and in the Summer School in Agriculture have all the privileges of admission to the Infirmary. They pay no fee in advance, but are liable for regular charges for services rendered.

For medical advice, see page 38.

Each student in the Department of Physical Culture is required to pay a fee of \$2 a term.

Students registered in Sibley College and College of Civil Engineering are charged \$12.50 a term for material used in College shops and laboratories; students not registered in Sibley College but taking work in the Sibley shops are charged at the rate of \$1.50 for each hour of college credit (fifty actual hours of instruction).

A graduation fee of \$10 is required of each person taking a first or undergraduate degree, and of \$20 of each person taking an advanced degree. When the degree is conferred at Commencement, graduation fees must be paid at least ten days prior to Commencement Day. When the degree is conferred at other times than Commencement (September or February), the graduation fee must be paid at least ten days prior to the dates on which they are conferred. The amount paid will be refunded should the degree not be conferred.

Every person taking laboratory work or laboratory courses must pay to the Treasurer the fee or the deposit for the materials to be used in the work.

All students in the University are held responsible for any injury done by them to its property.

A student who fails to pay his indebtedness to the University within twenty days after the last registration day of the term will be dropped from the University.

### EXPENSES

A student's expenses at Cornell, beyond the stated University fees and a small outlay for books and instruments, depend in large measure on his personal tastes and habits. His expenses, other than those for board and room, may be estimated at the normal rate prevailing throughout that section of the country in which Ithaca is situated.

Parents and guardians are earnestly cautioned against providing their sons and wards with an excessive amount of pocket money. Many young men have been fatally handicapped in their college careers by over indulgence in this respect.

The University has but one dormitory for men students. This is known as Cascadilla Dormitory, and is situated near the main entrance gate to the Campus. It furnishes accommodations for about 200 men. For particulars address, University Treasurer, Ithaca, N. Y. There are, however, in Ithaca many private boarding and rooming houses near the University Campus. In these the cost of board and furnished room, with heat and light, varies from \$5 to \$12 a week. By the formation of clubs, students are sometimes able to reduce their expenses for room and board.

Before engaging rooms, students should carefully examine the sanitary conditions and should particularly insist on satisfactory and sufficient fire escapes. In general, contracts for rooms should not be made for longer than a single term. New students are advised to come to Ithaca a few days in advance of the beginning of their University duties in order that they may have ample time to secure room and board before the opening of the college year. The Cornell University Christian Association offers its assistance to new students in the selection of rooming and boarding houses.

The dormitories for women students are, Sage College, Sage Cottage, and Prudence Risley Hall. In these buildings which are exclusively for women students, the total cost of board, laundry and rent of furnished rooms, with heat and light, varies from \$290 to \$320 a year. The dormitories are warmed by steam, and lighted by electricity. The University Adviser of Women has jurisdiction over all women students in the University, and women students are not permitted to board and lodge outside of the dormitories for women, unless for

special reason approved by the Adviser, and subject to her direction. Prospective women students should write to the Adviser of Women for information concerning any matters in which they may need assistance. Inquiries in regard to board and rooms in the women's dormitories should be addressed to, The Business Manager, Sage College, Ithaca, N. Y.

### SCHOLARSHIPS AND PRIZES

A special pamphlet on prizes is published by the University. It may be had on application to the Secretary.

#### CORNELL UNIVERSITY STATE SCHOLARSHIPS

Under the law of the State of New York the Commissioner of Education is empowered to award annually a number of free scholarships in Cornell University equal to the number of Assembly districts in the State of New York. Each scholarship entitles the holder to free tuition for four years beginning in the September immediately following the award of the scholarship.

All scholarship holders must satisfy the regular requirements for admission to one of the colleges of the University.

Holders of State Scholarships are notified that failure to register before the close of registration day of each term involves the severance of their connection with the University and consequently the forfeiture of their scholarships. The Commissioner of Education fills all scholarship vacancies.

A State Scholarship holder, after regular registration at the University, may receive a leave of absence for the purpose of earning the necessary funds to defray his living expenses at the University. Such leave of absence may be granted at the beginning of the college course, but in that case the scholarship will not be extended for the period covered by the leave of absence; on the contrary, it will lapse at the expiration of four years from the date of its original award. If, however, leave of absence for the aforementioned purpose is granted after the holder has made a creditable record in the University for at least one year, his scholarship will be extended for a period not to exceed two years, thus making the scholarship valid for a total period not to exceed six years from the date of the original award.

For particulars in regard to the awarding of Cornell University State Scholarships, application should be made to the Commissioner of Education, Albany, New York.

#### STATE SCHOLARSHIPS

Under the law of the State of New York (Chapter 292, Laws of 1913), State Scholarships are established in the several counties of the State, to be maintained by the State as provided by law. Five such scholarships shall be awarded each county annually for each assembly district therein. Each such scholarship shall entitle the holder thereof to the sum of one hundred dollars for each year which he is in attendance upon an approved college in this State during a period of four years. A person entitled to such scholarship shall not be restricted as to the choice of the college which he desires to attend, or the course of study which he proposes to pursue; provided that no such scholarship shall include professional instruction in law, medicine, dentistry, veterinary medicine or theology, except



so far as such instruction is within a regularly prescribed course of study leading to a degree other than in the above named professions; and provided further, that the college selected by the person entitled to such scholarship is situated within the State of New York, and is incorporated as a college and authorized under the laws of this State, and the rules of the Regents of the University to confer degrees.

For particulars in regard to the awarding of State Scholarships, application should be made to the Commissioner of Education, Albany, N. Y.

### UNIVERSITY UNDERGRADUATE SCHOLARSHIPS

Eighteen University Undergraduate Scholarships, continuing for two years and of an annual value of \$200 each, are offered each year to members of the incoming freshman class. The award is made on the basis of a special competitive examination held in Ithaca in September between the period of the entrance examinations and the opening of the University.

All candidates for these scholarships must have full entrance to one of the colleges of the University.

Holders of New York State Scholarships are eligible for University Undergraduate Scholarships.

The University Undergraduate Scholarships will be awarded on the basis of examinations in three of the seven following subjects:

- (a). English. Entrance requirement. See pages 11-13.
- (b). Greek. Greek grammar and Xenophon; composition and Homer. See page 13.
- (c). Latin. Latin grammar and Cæsar; composition and Cicero; Virgil. See pages 13-14.
- (d). French. Third year French. See pages 14-15.
- (e). German. Third year German. See page 14.
- (f). Elementary mathematics. Elementary algebra; intermediate algebra; plane geometry. See pages 16 and 17.
- (g). Advanced mathematics. Solid geometry; advanced algebra; and plane trigonometry. See pages 17 and 18.

In choosing three of these seven subjects, every candidate must take English and at least one of the other four languages; and any candidate who does not select either Latin or Greek must take advanced mathematics.

No scholarship will be awarded to any candidate who is reported markedly deficient in any subject in which he is examined, and the right is reserved to fill fewer than eighteen scholarships in the absence of a sufficient number of duly qualified candidates.

The holder of a University Undergraduate Scholarship shall forfeit the right to the same in case said scholar shall during incumbency change the course registered in at the time of receiving the award, unless the records of entrance examinations shall show that, at the time of the holder's admission to the University, all the subjects required for admission to the course last chosen were passed. All candidates must state before the scholarships are awarded what course they intend to pursue.

All persons shall be debarred from the competition for these scholarships who have participated in any previous competition for the same, or have been

previously registered in this University (including the Summer Session) or in any other university or college.

These scholarships will be forfeited at any time in case two-thirds of the Faculty present at any meeting, notice having been given at the meeting immediately before, shall decide that the holders have been guilty of negligence, or failure to maintain a high standard of scholarship, or of conduct of any kind that is unbecoming students holding such scholarships.

Whenever any of these scholarships shall for any reason become vacant, the vacancy shall be filled as the Faculty may determine.

The moneys due on these scholarships are paid at the office of the Treasurer of the University in two equal payments, on the 20 of February and the 25 of June, but no scholarship holder is entitled to receive his semi-annual payment until the Scholarship Committee has examined and approved the holder's record for the preceding term, and until the chairman of the Scholarship Committee certifies that the record of the holder is satisfactory.

### **SPECIAL UNDERGRADUATE SCHOLARSHIPS**

The following scholarships are likewise open to members of each incoming freshman class.

**1. The Frank William Padgham Scholarship.** This scholarship, founded in 1892 by Amos Padgham of Syracuse, New York, in memory of his son, Frank William Padgham, a graduate of Sibley College of the class of 1888, entitles the holder to free tuition and fees in the regular course in Sibley College of Mechanical Engineering. It cannot be held in connection with a New York State Scholarship. The Frank William Padgham Scholarship will be awarded to the candidate who has had his preparatory education wholly or in part in the public schools of Syracuse, New York, and who having been admitted to the regular course in Sibley College, shall pass the best examination in a competitive examination on the following studies selected from those that may be offered for admission to Sibley College: 1. solid geometry; advanced algebra; plane trigonometry; 2. third year German; 3. third year French; 4. English. Of these subjects the candidate must take three including mathematics. The examination for the Padgham Scholarship is held at the same time as the University Undergraduate Scholarship examinations; it is, however, a special examination and the candidate must declare his intention to enter the Padgham Scholarship examination and state his qualifications therefor to the Registrar, who will issue the usual permit to enter the examination.

**2. State Grange Scholarships in Agriculture.** At its annual meeting, held February, 1913, the New York State Grange adopted a resolution whereby \$600 is to be given to members of the Order in the form of twelve scholarships in the winter courses in agriculture in Cornell University. The scholarships are each of the value of \$50, to be awarded to men or women who attain the highest standing in competitive examinations. The candidate should apply to the Master of the Pomona Grange in his home county, or to the Deputy in counties that have no Pomona.

The following undergraduate scholarships are not open to students at the beginning of their freshman year in the University:

1. **The Alumnae Scholarship** of the annual value of \$100, to be awarded to a self-supporting woman who has spent at least one year in the University.
2. **The Boardman Senior Law Scholarship** of the annual value of \$100.
3. **The Fraser Scholarships.** Two scholarships in the College of Law of the annual value of \$100 and \$50 respectively.
4. **The Roberts Scholarship Fund**, providing for five annual scholarships of the value of \$240 each, for students in the College of Agriculture.
5. **The Buffalo Alumni Association Scholarship** of the annual value of \$200, for students who are residents of Erie or Niagara County, New York. The recipient must have been at least one year in some university. Cornell University is not responsible for the award or the payment of this scholarship.
6. **The Student Fund of the Cornell Club of Rochester.** A loan of the annual value of \$200 as a maximum. The recipient must be an upperclassman, must have had at least one year of residence at Cornell University, and must be eligible to membership in the Cornell Club of Rochester, New York. Cornell University is not responsible for the award or payment of this scholarship.

#### SCHOLARSHIPS AND FELLOWSHIPS IN GRADUATE SCHOOL

There are in the Graduate School seventeen scholarships of the annual value of \$300 each, and twenty-four fellowships of an annual value of from \$500 to \$600 each. For full information concerning these scholarships and fellowships the announcement of the Graduate School should be consulted.

#### PRIZES

The special pamphlet on prizes to be obtained upon application to the Secretary of the University, should be consulted for the terms of eligibility in connection with each of these.

1. **The Woodford Prize**, an annual prize in oratory consisting of a gold medal of the value of \$100.
2. **The '86 Memorial Prize in Declamation**, of the annual value of \$86.
3. **The '94 Memorial Prize in Debate**, of the annual value of about \$94.
4. **The Barnes Shakespeare Prize**, of the annual value of about \$50.
5. **The Guilford Essay Prize**, of the annual value of about \$150.
6. **The Corson French Prize.** An annual prize consisting of a gold medal of the value of \$50.
7. **The Corson Browning Prize.** An annual prize of the value of \$50.
8. **The Luana L. Messenger Memorial Prize**, for the essay giving evidence of the best research and most fruitful thought in the field of human progress or the evolution of civilization. This is an annual prize of \$50.
9. **The Sherman Bennett Prize.** An annual prize consisting of the income on \$400, for the best essay discussing the principles of free government.
10. **The Frances Sampson Fine Arts Prize.** An annual prize of the value of about \$30, awarded to the student who shows the most intelligent appreciation of the graphic arts and architecture.

11. **The John Metcalf Polk Memorial Prizes**, awarded annually to students in the Medical College.

12. **The Horace K. White Prizes** of \$15 and \$10 respectively, awarded annually to the most meritorious students in the graduating class of the Veterinary College.

13. **The Sibley Prizes in Mechanic Arts**, of the annual value of \$100, awarded to students in the Sibley College of Mechanical Engineering.

14. **The Fuertes Medals**, awarded to students in the College of Civil Engineering.

15. **The Sands Memorial Medal**, awarded to students in the College of Architecture.

16. **The Brown Memorial Medal**, awarded to students in the College of Architecture.

17. **The James T. Morrison Poetry Prize**, of the annual value of \$100.

18. **The Eastman Prize for Public Speaking** in the College of Agriculture, an annual prize of \$100.

19. **The Morris Prize in Nut Culture**, of the annual value of \$25, awarded to students in the College of Agriculture.

20. **The John Metcalf Polk Prizes** of \$300, \$125, and \$75 respectively, awarded annually to students having the highest standings in the Medical College.

21. **The Dana Prizes** of \$50 and \$25 awarded annually to students in the Medical College.

22. **The Hollingworth Honorarium in Research**, \$50 awarded annually for research in the Veterinary College.

23. **The Whiting Prizes** of \$50 and \$25, awarded to students in the Medical College.

24. **The Charles H. Baker Public Speaking Prize** is intended primarily for the benefit of the students in the College of Civil Engineering, but is open also to students in Sibley College and the College of Architecture.

25. **Japan Society Prizes** of \$75 and \$25 respectively for the best essays or articles on Japan, Japanese-American relations, or similar topics, submitted by any student of Cornell University.

26. **The Lora C. Schroeder Prize** of \$50 for the best work on the diseases of small animals.

27. **The James Gordon Bennett Prize** of \$50 for the best work on local and general anæsthesia.

28. **The Jane Miller Prize** of \$50 for the best work in veterinary physiology

### FINANCIAL ASSISTANCE

**The F. W. Guiteau Student Loan Fund.** Through the generosity of the late Mr. Frederick W. Guiteau and his sister, the late Mrs. Nancy G. Howe, both of Irvington-on-Hudson, New York, a fund, known as the F. W. Guiteau Student Loan Fund, has been established in Cornell University, the income from which, amounting to about \$11,000 annually, is to be "used in advancing and assisting needful, worthy young men in pursuing their studies in said University". There is also a small separate fund available for women students.

The benefits of these funds are open to young men and young women who have been in attendance at Cornell University for at least one year. Account is taken of the applicant's character, scholastic record, and need of financial assistance. Loans are made primarily to cover tuition fees.

Official application blanks to be used in applying for aid from these funds may be secured at the Secretary's Office, Morrill 31, daily 4 to 5 p. m. except Saturday, and all applications should be addressed to the Student Loan Fund Committee, Secretary's Office, Morrill Hall.

## OPPORTUNITIES FOR SELF-SUPPORT

Many students earn the whole or a part of their expenses while attending the University. Opportunities for self-support occur chiefly in the line of personal services of various kinds, e. g., waiting at table, caring for furnaces, and in the management of various student enterprises, laundry agencies, etc. In practically all the numerous student boarding houses, student waiters are employed, receiving their board in return for their services. The University does not however undertake to secure positions. A student's time should be quite fully occupied by his scholastic work, and only those of great determination, who have good health and a strong physique, should undertake the extra burden of any outside employment. No student should begin a course at the University without funds sufficient to meet all the expenses at least of the first half-year.

Students of fine scholarship occasionally have the opportunity of doing some tutoring in the latter part of their college course, and in some of the departments of the various colleges positions as student assistant with appropriate compensation are open to seniors of exceptional ability and attainments.

The Cornell University Christian Association, through its employment bureau, is always ready to assist students in search of work, and its secretary will welcome any inquiries from men students with reference to opportunities for self-support. Women students in search of employment should address the University Adviser of Women, Sage College, Ithaca, New York.

The Secretary of the University welcomes conferences with all students who desire to find employment during the college year, and will endeavor to meet the needs of all applicants.

## THE UNIVERSITY LIBRARY

The University Library contains 409,700 bound volumes. The library is open on week days during the college year from 8 a. m. until 10.45 p. m., except on Saturdays when it is closed at 5 p. m. Every convenience is offered to students to facilitate and encourage their use of the library books.

## THE CORNELL INFIRMARY

The Cornell Infirmary is the former mansion of the late Henry Williams Sage, for many years chairman of the Board of Trustees of the University. At his death in 1897, his sons, Dean and William Henry Sage, endowed it and

gave it to the University for a students' Infirmary as a memorial to their father. In 1912 a modern fireproof addition was erected with a capacity of sixty-two beds.

The Infirmary, which is in charge of an experienced superintendent, is thoroughly equipped in every way, and is open throughout the University year.

For Infirmary fees see page 30.

## PHYSICAL EXAMINATIONS AND MEDICAL ADVICE

A physical examination is required of all students upon entering the University. The Medical Advisers observe regular office hours at their respective offices in the gymnasium for men and the gymnasium for women.

All students are at liberty and are urged, in case of sickness or indisposition, to consult the Medical Advisers for a diagnosis of their ailments, to the end that they may be informed whether the further attention of a physician is necessary. When students are confined to their rooms, their house stewards or landlords are urged to communicate speedily with the Medical Advisers.

No charge is made for the physical examinations or the medical advice.

## THE SAGE CHAPEL AND BARNES HALL

Religious services, provided for by the Dean Sage Preachership Endowment, are conducted in Sage Chapel throughout the college year by eminent clergymen selected from the various religious denominations. These services are supplemented by the Cornell University Christian Association, a voluntary organization of students and professors formed for their own religious culture and the promotion of Christian living in the University. The Christian Association has its home in Barnes Hall; it has a permanent secretary and a carefully selected biblical library, also comfortable reading and recreation rooms. Bible study courses are carried on throughout the year. A committee of the Association, in attendance at Barnes Hall during the first week of each college year, offers its assistance to new students in the selection of rooming and boarding houses.

There is in addition to the Men's Christian Association, a flourishing Young Women's Christian Association, with quarters in Barnes Hall.

The students of the University are welcomed by the numerous churches in the city of Ithaca at all their services.

## ATHLETICS

The University encourages every student to participate in some form of athletic exercises unless prevented by physical disability.

A careful physical examination is made of all new students and exercises are prescribed to meet their individual needs. All men and women who desire to train for athletic competitions are examined by their respective medical examiners.

The new playground and athletic field covering 55 acres on the Campus within five minutes' walk of the quadrangle offers ample room for outdoor athletic games and exercises. The armory and the gymnasium are used for the indoor work during the winter months. Two boathouses, one for the 'varsity crews and one for the college crews, are situated on the inlet to Cayuga Lake, and are the headquarters of the crews during the spring and autumn. Percy Field, a well equipped athletic field, covering 10 acres, with club house, etc., is used for most of the intercollegiate contests. Women students have their separate gymnasium, boathouse, athletic field, etc.

A particular effort is made to interest all students in physical exercises, not merely those of unusual physical ability who are attempting to become members of some of the organized athletic teams. An athletic league exists among the various colleges of the University and a series of athletic contests is carried on throughout the year. All students in the University except the 'varsity athletes may participate in these. The games consist of cross-country running, association football, basketball, indoor athletics, baseball, track athletics, and rowing. Participation in these games as well as in such other games as tennis, lacrosse, handball, and golf, and in such forms of exercise as boxing, wrestling, and fencing, is regarded as fulfilling the requirements of the Department of Physical Culture.

Membership on the teams that represent the University in intercollegiate contests is by rigid competition. These intercollegiate sports consist of rowing, football, baseball, track athletics, lacrosse, basketball, cross-country running, hockey, wrestling, fencing, association football, tennis, golf, and swimming.

## STUDENT FRATERNITIES, CLUBS, AND ORGANIZATIONS

There are nearly fifty fraternities at Cornell University. Membership in them is by invitation and election. Many of the fraternities have their own houses in which their members live.

The national literary and scientific societies, Phi Beta Kappa, Sigma Xi, and Tau Beta Pi have chapters at Cornell. In addition to these there are various college and departmental and class clubs of a literary or scientific nature. Membership in all these is by election.

The musical and dramatic clubs of the University comprise the Glee Club, the Mandolin Club, the University Orchestra, the Masque, the Dramatic Club, the Deutscher Verein, Les Cabotins, and the English Club.

## LECTURES, CONCERTS, ETC.

During the course of each year many men, native and foreign, of eminence in public and private life, are invited to lecture before the University or some of its colleges. These lectures are always free to students in all the colleges of the University.

A series of musical concerts at various times during each year is provided by the Department of Music. Weekly organ recitals, with free admission to all members of the University, are given in Sage Chapel.

## OFFICIAL PUBLICATIONS OF CORNELL UNIVERSITY

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These publications include

Catalogue Number (containing lists of officers and students), price 25 cents.  
Book of Views, price 25 cents.

Directory of Faculty and Students, First Term, 1912-13, price 10 cents, and the following informational publications, any one of which will be sent gratis and post-free on request. The date of the last edition of each publication is given after the title.

General Circular of Information for Prospective Students, Dec. 15, 1912.

Announcement of the College of Arts and Sciences, May 15, 1913.

Announcement of the Sibley College of Mechanical Engineering and the Mechanic Arts, Jan. 1, 1913.

Announcement of the College of Civil Engineering, Feb. 15, 1913.

Announcement of the College of Law, April 15, 1913.

Announcement of the College of Architecture, June 1, 1913.

Announcement of the New York State College of Agriculture, June 15, 1913.

Announcement of the Winter Courses in the College of Agriculture, July 1, 1913.

Announcement of the Summer School in Agriculture, April 1, 1913.

Announcement of the New York State Veterinary College, March 1, 1913.

Announcement of the Graduate School, January 15, 1913.

Announcement of the University, Summer Session, March 15, 1913.

Announcement of the Department of Forestry, November 1, 1912.

Annual Report of the President, December 1, 1912.

Pamphlets on prizes, samples of entrance and scholarship examination papers, special departmental announcements, etc.

Correspondence concerning the publications of the University should be addressed to

The Secretary of Cornell University,  
Ithaca, N. Y.