

CORNELL UNIVERSITY OFFICIAL PUBLICATION

VOLUME X

NUMBER 7, SUPPLEMENT

SUPPLEMENT TO THE ANNOUNCEMENT OF THE GRADUATE SCHOOL 1919-1920

Giving Information Regarding the Opportunities for Graduate Study
and Research at the University during the Summer of 1919

MARCH 1, 1919
PUBLISHED BY CORNELL UNIVERSITY
ITHACA, NEW YORK



CORNELL UNIVERSITY IN SUMMER

Although the regular academic year of the University closes with Commencement, usually in the third week of June, the University still remains a centre of research, study, and teaching during the greater part of the summer. So far as teaching is concerned, there have been for some years three organized programs of instruction for different classes of students: (1) The Third Term in Agriculture, offering advanced instruction and opportunities for research, particularly in the biological sciences, and during 1919 extending over a period of twelve weeks (June 24-September 13); (2) The Summer Session in Agriculture, primarily for teachers of agricultural and rural subjects, six weeks (July 5-August 15); (3) The Summer Session, offering both elementary and advanced instruction in certain departments in the College of Arts and Sciences, and also in certain professional subjects, six weeks (July 5-August 15). Special announcements of the departments and courses of instruction have been issued for the above-mentioned terms, and will be sent on application to the Secretary of the University.

Research and Graduate Study during the Summer

During the summer of 1916, before the country entered the war, there were enrolled in the Graduate School of Cornell University 213 students, the greater majority of whom were candidates for advanced degrees. In addition, there was also a considerable number of investigators of more mature scholarship, carrying on investigations in the various laboratories, libraries, and museums of the University.

Cornell University is in many respects a specially advantageous centre for research and advanced study during the summer months. The climate of Ithaca at this time of year is usually pleasant and favorable for work, the Campus is spacious and beautiful, and the surrounding country exceptionally interesting and attractive. As the population of the University is much smaller than during the academic year, it is easy to obtain opportunities for quiet and uninterrupted work, and also not difficult to secure comfortable living conditions.

The region about Ithaca offers exceptional opportunities for investigation to students of geology, of physical geography, and of

plant and animal life. Excellent and varied illustrations of physiology and glaciology are close at hand, as well as examples which are of fundamental importance in paleozoic geology. The very rich flora of Ithaca and vicinity makes the location a particularly desirable one for students of botany. The large fauna of the Cayuga Lake basin, with its admixture of the Transitional, Canadian, and Upper Austral life zones, and with its diverse topographic conditions, affords unusual opportunities for advanced work and research in ecology as well as for investigations in the histology and embryology of all the main groups of vertebrates.

In the Announcement of the Graduate School will be found a description of the University Library, and of the equipment of the laboratories and of the several library and museum collections. The University Library comprises about 500,000 bound volumes, and contains exhaustive collections of books in certain fields. It provides in its seminary rooms and stacks, favorable conditions for the work of the scholar.

The Summer of 1919

On account of the interruptions caused by the war, the University will offer a larger range of opportunities than usual to graduate students during the summer of 1919. In addition to the programs of instruction already mentioned, the Engineering Colleges and the College of Architecture will continue in Session until late in August, and will afford the same facilities for graduate students as during the regular year. In the College of Arts and Sciences, a larger program of studies than is usual is offered in connection with the Summer Session, and the senior members of many departments will be in residence.

The Summer Session of six weeks is not in itself accepted as residence for the degree of Doctor of Philosophy. But in certain departments an opportunity is offered to candidates for this degree to continue their studies for a term of eight weeks. Those who wish to avail themselves of this opportunity are requested to correspond with the teachers under whose direction the work is to be carried on. In general, it is assumed that the best arrangement will be that the student should register in the Graduate School and begin work on the 30th of June, remaining in residence until August 23. In individual cases, however, other dates may be fixed. Except where special permission is obtained from the General Committee of the Graduate School, it will be necessary for the student to enroll also in the Sum-

mer Session, or in the Third Term of one of the colleges of the University.

Facilities for Independent Investigation

The attention of more mature scholars, who are beyond the stage of graduate students, is called to the facilities offered by the University for investigation during the summer in many lines of work. Members of the staff who are in residence will be glad to share with colleagues from other institutions, and with other mature scholars, the opportunities for investigations. Details in regard to special equipment and to library material will be furnished on application to the several departments, or to the Librarian of the University.

There follows information regarding the work as already arranged in a number of different fields of work. Further details may be obtained by corresponding with the teachers under whose direction the graduate work is to be undertaken;

Greek and Classical Archaeology: There will be no graduate courses offered in this field, but Professor E. P. Andrews will be in residence and will give individual advice and assistance to graduate students undertaking special investigations.

Latin: Two courses—one on Latin Language and Syntax, the other on Martial's Epigrams—are primarily for teachers and graduate students. In addition, regular conferences will be held and lectures will be given on collateral subjects in the field of Latin Study. Those who wish to begin candidacy for the degree of Master of Arts are requested to correspond in advance with Professor Durham.

German: Professors Boesche and Pope will be in residence during a term of eight weeks, and will give advice and assistance in special investigations to candidates for the degree of Master of Arts or of Doctor of Philosophy.

Romance Languages: The following courses are offered for graduate students: History of French Literature; Literature of the Nineteenth Century; French Phonetics; Contemporary French Novel; Old French Texts; Masterpieces of Spanish Literature. Professors Mason, Keniston, and Hamilton will be in residence for a term of eight weeks and will direct the work of candidates for advanced degrees.

English: The following courses suitable for graduate students will be offered in this field: Wordsworth; Old English; Middle English Literature; Problems and Methods of Research, reviewing recent discoveries in Shakespearian bibliography and their relation to the play of Hamlet. Professor Strunk and Assistant Professors Northup, Monroe, and Adams will be in residence. Students wishing to pur-

sue studies in English for the doctorate should obtain information regarding the opportunities by correspondence.

Philosophy: Four courses are offered which may be of interest to graduate students of this subject:—History of Greek Philosophy; History of Modern Philosophy; Development of Modern Philosophical Problems; and Political and Social Ethics. In addition, individual assistance and direction will be given to students who wish to undertake special investigations. Professors Hammond, Thilly, and Creighton will be in residence.

Psychology: In this subject the opportunities for graduate students will be the same as during the regular academic year. Professor Titchener, who will be in residence during a term of eight weeks, will direct the work of candidates for the doctorate taking a major in Psychology; Assistant Professor Weld will have charge of the work of candidates for the degree of Master of Arts, and of minors for the degree of Doctor of Philosophy.

Education: Advanced Work in Education. This work may consist of essays and reports upon some special topic, or of laboratory investigation of some special problem. A Seminary will also be held if a sufficient number of advanced students desiring it are in attendance. Professor Ogden and Assistant Professor Foster will be in residence, and the former will direct the work of candidates for the doctorate during the eight weeks period, June 30 to August 22.

History: Arrangements have not yet been completed for graduate work in history during the summer of 1919. Students contemplating work in any of the departments of this subject are requested to correspond either with Professor J. P. Bretz, or with the Dean of the Graduate School.

Political Science: Professor Davenport offers to supervise thesis and research work and to extend the period if desired to cover a term of eight weeks. Assistant Professor Usher will offer courses on General and Industrial History, and on Social Problems in England during the Twentieth Century, and will also undertake the direction of advanced study and investigation for a term of eight weeks.

Mathematics: The Department of Mathematics offers regular graduate courses in advanced calculus, differential equations, higher analysis, and geometry. Each teacher is prepared to assist students in every way possible in directing reading, proposing problems, criticizing progress, etc. Provision is made to conduct graduate work during eight weeks for every one desiring it. Nine teachers of the regular staff will be in attendance all summer.

Chemistry: During the summer of 1919 an extensive list of courses will be offered by the Department of Chemistry including a number of courses suitable for graduate students. A large proportion of the regular staff of instruction of the Department will be engaged in this work. The men of professorial rank who will give

instruction during the summer are Professors W. R. Orndorff, E. M. Chamot, A. W. Browne, and T. R. Briggs. These men will be prepared to devote a part of their time to personal supervision of the work of graduate students planning to start or to continue their work toward an advanced degree during the summer session.

The facilities for research in chemistry at Cornell are of very high grade and opportunity is offered for the investigation of topics covering a wide range.

- It is suggested that any one interested in further details concerning graduate work in chemistry correspond directly with the Department of Chemistry, Cornell University, Ithaca, N. Y.

Physics: In the Summer Session of 1919 the subjects announced as suitable for the Master's degree include Physical Optics, Electric and Magnetic Fields, Theories of Electric Conduction and Advanced Laboratory Practice. Those suitable for the Doctor's degree include Theoretical Mechanics and Electric Waves. The work in electric waves will be of interest not only to graduate students but also to Physicists with more extended experience.

Students prepared to profit by the use of the library and laboratory facilities of the department in the study of some special topic or in investigation will be given every opportunity for work. The department offers to experienced investigators in other universities and colleges the use of its facilities, and is glad to announce that Professor Ernest Merritt, who has been in government service for nearly two years, will be in residence during the Summer and will aid wherever possible in making the cooperation of the department effective. Other members of the Summer Session staff who will also be glad to assist in this matter, and who in addition to Professor Merritt will be available to direct research work of graduate students, are Professors R. C. Gibbs and C. C. Bidwell. Anyone contemplating doing investigational work in Physics is requested to correspond with Professor Gibbs, especially if it is desired to begin work before July 7.

Physiology and Biochemistry: No advanced courses are given during the Summer Term, but Dr. Simpson (Physiology) and Dr. Sumner (Biochemistry) work in their laboratories practically throughout the entire long summer vacation and each will undertake to direct the research of three or four graduate students.

Physical Geography. The region about the university presents a great variety of glacial phenomena within a comparatively narrow radius. The more general relationships of these have been studied and the results presented in the Watkins-Glen-Catatonk Folio No. 169 of the United States Geological Survey, which may be consulted with profit by students who may contemplate work in this field. There remains, however, a large opportunity for work on special problems, either with reference to the general subject of continental glaciation or its particular phases as exhibited in the region. The university library contains practically all the literature on the subjects involved,

and is supplemented by a considerable collection of reprints in the departmental library. Students interested should write Assistant Professor O. D. von Engeln.

Paleontology: No regular class work is offered, but Professor Harris will be in residence during a part of the summer and the laboratory will be constantly open so that anyone desiring to use the museum, literature, and general equipment and desiring general guidance in work will be welcome. Professor Harris will also be ready to help anyone during the coming summers in field work in the Paleozoic of Western New York or the Tertiaries along our Atlantic and Gulf Borders.

Special attention is called to the fact that in certain departments connected with the College of Agriculture, regular instruction is offered for a term of twelve weeks. Details may be obtained from an announcement which will be sent on application to the Secretary of the University. In many of these fields—particularly in those which deal with plant and animal life—there are special advantages in work during the summer months, and it is regarded as practically essential that candidates for the doctorate should spend at least one summer in carrying on research. The following special statements have been furnished:

Entomology and Limnology: The advantages of summer work in entomology and limnology are very great. It is only in summer that the fine natural environment of the University may be fully utilized. In the growing season field work may be combined with work in our insectaries, field stations, and laboratories with great pleasure and profit. Every student specializing in entomology is expected to spend at least one summer at the University, before graduation; and graduate students in economic entomology will as a rule find it impossible to carry on their problems except by spending the summer season in part at least in the field. During the summer of 1919, Professors Needham, Bradley, and Matheson will be in residence. Advanced courses and graduate work in insect ecology, limnology, systematic entomology, and economic entomology will be offered. In addition to those in residence other professors will be present during the greater part of the summer to aid and assist any one desiring advanced work. Specialists who can use the library and collections and other facilities of the Department to advantage in their own investigations, are invited to write to any of the above named professors in residence, with a view to being received by the department as guests.

Rural Education: Practically all of the course work offered during the summer term is for graduate students. In addition to this course work special problem study may be carried on by those who are ready for such work. All of the members of the staff except one will be in service during the long summer term. Since there will be a

twelve weeks' term, it will be possible for students who can not arrange for the twelve weeks' period to extend their work over an eight weeks' period. In addition to the library facilities, the department, through its connection with the State Department of Education, has available full records and statistics regarding the work in Vocational Education carried on by the State of New York.

Floriculture: The Department of Floriculture is well equipped for graduate work during the summer. The field of investigation and research is broad, and the summer offers excellent opportunities for original work. The department has about thirty acres of land devoted to field experiments with peonies, gladioli, irises, asters and other annual and perennial plants. The large rose-test garden, which is maintained in cooperation with the American Rose Society, offers a valuable opportunity for the study of any branch of rose culture. The library equipment consists of a large and steadily increasing collection of works of reference, comprising a number of the rarer books of the ancients, an unusually full assortment of the garden herbals of the sixteenth, seventeenth, and eighteenth centuries, and the leading monographs and manuals of modern times, supplemented by complete sets of a large number of the horticultural journals of Europe and America. The largest bound collection of seed, plant, and nursery catalogues in the United States is in the library of the department. This collection is very useful to students monographing floricultural plants. Students have access to an herbarium comprising about thirteen thousand cultivated plants.

Forestry: Several members of the staff will be on duty during the summer term in 1919 (June 24-September 13). The first six weeks will be spent in Ithaca, and later there will be practical work in some tract in the Adirondacks, where the remainder of the summer will be spent. Provision will be made for the work of graduate students, both in the field and at Ithaca, where Professor Hosmer will be in residence throughout the summer.

Veterinary Medicine: Students in the Graduate School pursuing advanced work in physiology, bacteriology, or pathology will have exceptional facilities for research during the summer. Several members of the staff will be in residence and will be able to give assistance to students who will also find the opportunities for work excellent in the way of material and laboratory equipment.

Civil Engineering, Mechanical and Electrical Engineering, and Architecture: There will be an eight week's term of instruction in these colleges (July 5-August 29), and in certain departments the opportunities for research and graduate study will be the same as during the regular year. In Bridge Engineering, Railway and Highway Engineering, Electrical Engineering, and Architectural Design, assistance and guidance will be given to graduate students by senior members of the regular staff. Details may be learned from the complete Announcement of the Graduate School and by correspondence with members of the staff.

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The Secretary of Cornell University,
Ithaca, New York.

ADMISSION, CLASSIFICATION, REGISTRATION

Admission to all classes in the Department of Music is determined by individual classification at the opening of the session. All who intend to enter or continue the course for supervisors of music should carefully fill out the application blank found on page 3 of this Announcement, detach it, and mail it to the Department of Music, Cornell University, Ithaca, N. Y., before July 4. All new students should be present at Barnes Hall on Saturday morning, July 5. All students are required to register also at the office of the Registrar in Morrill Hall.

Students who have attended one or more sessions in the Department of Music, and who are not conditioned in any subject, should register Monday, July 7. All classes will meet for regular work on Tuesday morning, July 8, beginning at 8 o'clock. The entire faculty will be in attendance on Saturday, July 5, to assist in the classification of new students. It is important that classification and registration of new students be completed on Saturday, July 5.

TUITION FEE

The single tuition fee for the entire Summer Session, whether one course or more is taken, is \$30. This must be paid at the office of the Treasurer, Room 1, Morrill Hall, within five days after registration day. In case of withdrawal for reasons satisfactory to the Treasurer and the Registrar, within five days from the first registration day, the tuition paid may be refunded and the charge cancelled. In case of withdrawal within two weeks of the first registration day, one-half the tuition paid may be refunded. No student will be admitted without the payment of this fee.

All persons registering for the first time in the Summer Session must pay a registration fee of \$5. This fee bears no relation to the University matriculation fee.

All tuition and other fees may be changed by the Trustees to take effect at any time without previous notice.

ACADEMIC CREDIT FOR WORK

In the College of Arts and Sciences. The requirements for the degree of Bachelor of Arts are residence for eight terms (four years), and the completion of one hundred twenty hours ("points") of elective work. A student who has satisfied the entrance requirements of the college, and has afterward completed in two or more summer sessions at least twelve hours of work in courses approved by the departments concerned, may be regarded as having thus satisfied one term of residence. Under no circumstances shall work done in summer sessions be accepted as the equivalent of more than two terms of residence. The maximum amount of credit towards the A.B. degree which is allowed for the work of any one summer session is eight hours.

Certificates for Work Completed. All students in the Department of Music of the Summer Session will receive certificates of attendance and of work accomplished, covering all subjects in which the work has been satisfactorily performed. Each certificate will be forwarded by mail to the home address after the close of the Session.

The University issues a Supervisor's Certificate to each student who completes the course for Supervisors of Music; also a special certificate on the completion of the course for Directors of Instrumental Music



BAILEY HALL CONCERT, DEPARTMENT OF MUSIC, AUGUST 10, 1917

Daily Program, Summer Session, 1919

	A First-year Courses	B Second-year Courses	C Third-year Courses	D Fourth-year Courses	E Advanced Courses
8:05 to 9:05	Chorus—Mr. Carey		Chorus—Professor Dann		
9:15 to 10:00	Dictation (two sections) Miss Bartholomew Miss Ottley	Dictation (two sections) Prof. Hoerrner Miss White	Dictation Miss Wisenall Prof. Ballard	Practice Teaching Miss Bryant	Violin Class Mr. Mattern
10:10 to 10:55	Harmony Miss Wisenall	Sight Reading (two sections) Mr. Scales Miss Ottley	Material and Methods Professor Dann	Choral Conducting (two sections) Prof. Hoerrner Mr. Braun Mr. Carey	Orchestration M. W. F. Mr. Johnstone
11:05 to 11:50	Material and Methods (Observe B)	Material and Methods Miss Bryant	Sight Reading (1) Mr. Scales Prof. Hoerrner Practice Teaching (4) T. W. Th. F. Miss White	Melody M. W. F. Mr. Johnstone Voice Training T. and Th. Mrs. Hunt	Orchestra Material and Methods Mr. Mattern
12:00 to 12:45	Sight Reading (two sections) Miss Bartholomew Miss Ottley	Harmony Miss Wisenall Prof. Ballard	Melody M. W. F. Mr. Johnstone Sight Reading T. and Th. Prof. Hoerrner Mr. Scales	High and Normal School Music (4) Professor Dann Voice Training (F.) Mrs. Hunt	Band and Orchestra Technic Mr. Herrick
2:15 to 3:00	Rudiments of Music Mr. Scales	Song interpretation—Tues. and Fri. Mr. Johnstone Rote Songs and Voice Training—Mon. and Thurs. Miss Bryant Musical Appreciation—Wed.—Mr. Johnstone		Orchestral Conducting (two sections) (a) Mon. and Tues. (b) Thurs. and Fri. Mr. Mattern	
3:05 to 3:45	School Orchestra C—Mon. and Tues.—Mr. Mattern Normal Piano, Course I—Mr. Braun Normal Piano, Course II—Mr. Kroeger				

THE LIBRARIES

The University Library is open on week days from 8 a. m. to 10 p. m., except Saturday, when it closes at 1 p. m. In this is housed the main library, containing about 500,000 bound volumes. The general reading room affords accommodations for two hundred and seventy readers, and contains over 8,000 volumes. In addition there is a periodical room in which are kept the current numbers of about five hundred journals in various fields of knowledge. These rooms are open to all students. The main collection is primarily a library of reference for use in the building. Students are, however, to a limited extent allowed to take out books for home use. Students wishing this privilege must make a deposit of \$5, which will be refunded upon the return of all books taken out.

LECTURES, MUSICAL RECITALS, EXCURSIONS

There will be lectures on topics of general interest on Monday evenings throughout the session. In addition to these there are lectures on topics of general interest each week in connection with the various departments. Notice of these will be given in the calendar for each week during the session.

Organ recitals will be given by Professor James T. Quarles, University organist, on Tuesday evenings in Sage Chapel and on certain Sunday evenings in Bailey Hall.

Two Sunday evenings will be devoted to Community Singing to which will be invited all members of the University and city community.

A series of pianoforte lecture-recitals will be given in Barnes Hall by Mr. Ernest R. Kroeger on the first five Thursday evenings of the Session. Other concerts and recitals will be announced during the session.

Two excellent concerts will be given in Bailey Hall during the Session by eminent artists engaged especially for these events. Details will be announced later.

One or more choral concerts will be given in Bailey Hall by the Chorus and Orchestra of the Department of Music.

Wednesday evenings are devoted to the departmental conferences which are open to all interested. Notice of these will be given in the weekly calendar.

In connection with the work of several departments, excursions are made to many points of interest. Some of the excursions are open to all members of the Summer Session. Notice of these excursions is given from week to week.

RESIDENTIAL HALLS, ROOMS, BOARD

1. For Women. The University has three residential halls for women in which board and rooms may be obtained during the Summer Session by registered students only.

Rooms in these buildings will be reserved in order of application. Each application for a room must be accompanied by a deposit of \$5, otherwise the application will not be entered. If the room assigned is occupied by the applicant, the deposit is held until the end of the session to cover the return of keys, damage to building or furniture other than the ordinary wear and tear, and to insure the completion of the lease. The deposit will be refunded if the applicant gives formal notice to the manager on or before June 15 that she wishes to withdraw her application.

Students in the Department of Music who desire to live in Prudence Risley Hall or Sage College are advised to engage rooms earlier than usual, on account of the greater demand due to the holding of a regular term of the University in the summer of 1919.

In Sage College, which accommodates 175, the charge for room, table board, and a specified amount of laundry, will be, for the session, from \$58 to \$70 according to the size and location of the room.

In Prudence Risley Hall, which accommodates 151, the charge will be from \$64 to \$67 according to the room occupied.

In both buildings this charge includes lodging Friday night, July 4 (not earlier), breakfast July 5, and all meals to and including breakfast August 16.

Members of the Summer Session who do not room in Sage College or Prudence Risley Hall may obtain table board at either building. The charge is \$7 a week.

In Cascadilla Hall a furnished room may be had for the six weeks of the Summer Session at a cost of \$18 to \$24. This building is furnished like the others but has shower baths and not tubs. In this building the University maintains a cafeteria restaurant where meals may be had at reasonable rates.

For room plans and all information relative to these halls, apply to Thomas Tree, Manager of Residential Halls, Sage College, Ithaca, N. Y.

2. For Men. Vacant rooms in Baker Court are available for men students. For room plans and all information relative to Baker Court, apply to the University Treasurer, Ithaca, N. Y.

Checks for reservation of rooms or in payment of board bills should be drawn to the order of Cornell University.

Rooms and board may be secured in private houses if desired. A list of approved houses will be furnished after June 1. Students should not engage rooms without personal knowledge or advice.

RECREATION

The immediate vicinity of Ithaca offers numerous opportunities for attractive walks and drives. Excursions to Cayuga Lake, to Watkins Glen, and to Niagara Falls are conducted in connection with the Department of Geography and all summer students are permitted to go, provided there is room for more than the regular classes. The Country Club, which has tennis courts and a fine golf course, offers a special limited summer membership at a low fee. In addition there are tennis courts available near the University.

The campus and the extensive farm lands of the University afford opportunity or an attractive out-of-door life.

RAILROAD ROUTES

Ithaca is reached by the Lehigh Valley and Lackawanna railroads and by the Ithaca-Auburn Short Line. A branch of the Lackawanna connects with the main line at Owego. Through trains run from Philadelphia, New York, and Buffalo on the Lehigh, and through sleeping cars run daily to and from New York on both the Lehigh and Lackawanna roads. From Philadelphia, Baltimore, Washington, and the South via the Baltimore & Ohio, the Philadelphia & Reading connects with the Lehigh at Bethlehem. The Lehigh and the Auburn-Ithaca Short Line connect with the New York Central at Auburn; the Lehigh also connects with the Pennsylvania (Northern Central) and the Erie at Elmira.

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