

CORNELL UNIVERSITY OFFICIAL PUBLICATION

Volume XIII

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Announcement of Winter Courses

New York State
College of Agriculture

1922-23

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July 1, 1922

CALENDAR 1922-23

Nov. 8,	Wednesday,	Registration in winter courses, beginning at 9 a. m. at the office of the Secretary, Roberts Hall.
Nov. 9,	Thursday,	Instruction begins in winter courses.
Nov. 20,	Monday	Fee cards issued at office of the Secretary.
Nov. 25,	Saturday,	Last day for payment of fees at office of the University Treasurer, Morrill Hall.
Nov. —,	Thursday,	Thanksgiving Day. Holiday
Dec. 21,	Thursday, 1 p.m.	Instruction ends. { Christmas recess.
Jan. 4	Thursday, 1 p.m.	Instruction resumed. }
Feb. 12-17,		Sixteenth Annual Farmers' Week.
Feb. 16,	Friday,	Instruction ends in winter courses.

NEW YORK STATE COLLEGE OF AGRICULTURE

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 Philip Henry Wessels, M.S., Research Professor of Vegetable Gardening.
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Henry William Schneck, B.S., M.S.A., Assistant Professor of Vegetable Gardening.

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Mary Frances Henry, A.B., Assistant Professor of Home Economics.

Sarah Lucile Brewer, B.S., Assistant Extension Professor of Home Economics.

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William Truman Crandall, B.S.A., M.S., Assistant Extension Professor of Animal Husbandry.
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Frank Bonar Howe, A.B., Soil Surveyor.
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Walter Gernet Krum, Extension Instructor in Poultry Husbandry.
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Lawrence Paul Wehrle, M.S., Research Instructor in Entomology.

- Charles Loring Allen, Ph.D., Instructor in Animal Husbandry.
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 Robert Carroll Ogle, Extension Instructor in Poultry Husbandry.
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 Walter Conrad Muenscher, Ph.D., Instructor in Botany.
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 Van Breed Hart, B.S., Instructor in Farm Management.
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 Evelyn Ida Fernald, M.A., Instructor in Botany.
 Clarence Edgar Lee, B.S., Instructor in Rural Education.
 Ernest Edgar Pittman, B.S. in Agr., Instructor in Dairy Industry.
 Anson Wright Gibson, B.S., Instructor in Farm Practice.
 Luther Shirley West, B.S., Instructor in Parasitology.
 Walter Van Price, M.S., Instructor in Dairy Industry.
 Frank Dickson, B.A., Instructor in Plant Pathology.
 Mrs. Carolyn Brundage McIlroy, Instructor in Home Economics and Shop
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 Frances Artie Brookins, Instructor in Home Economics and Assistant Shop
 Director.
 William Theodore Grams, B.S. in Agr., Extension Instructor in Animal Hus-
 bandry.
 Marion Flemming, M.A., Instructor in Home Economics and Supervisor of the
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 Roy Wallace Moore, B.S., Extension Instructor in Agricultural Chemistry.
 James Asher McConnell, B.S., Instructor in Animal Husbandry.
 Raymond William Bell, B.S., M.S. in Agr., Instructor in Dairy Industry.
 Donald Stuart Welch, B.S., Instructor in Plant Pathology.
 Luther Clinton Kirkland, B.S., Instructor in Farm Practice.

Reena Roberts, B.S., M.A., Instructor in Home Economics.
Lois Ann Farmer, B.S., Instructor in Home Economics and Manager of the Cafeteria.
Charles Henry Merchant, M.S., Instructor in Rural Economy.
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Floyd Hiram Peabody, Instructor and Stockman in Animal Husbandry.
John Paul Jones, M.S., Instructor in Botany.
Josiah Randall Livermore, B.S.A., Extension Instructor in Plant Breeding.
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Evelyn Byrd, B.A., B.S., Extension Instructor in Home Economics.
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William Trowbridge Merrifield Forbes, Ph.D., Instructor in Entomology.
James Beckley Palmer, B.S., Extension Instructor in Entomology.
Edna Gertrude Gleason, B.S., Extension Instructor in Home Economics.
Leonard A. Dalton, B.S., Extension Instructor in Field Crops.
Burton Aaron Jennings, B.S., Instructor in Rural Engineering.
Lawrence Myron Fenner, B.S.A., Instructor in Plant Pathology.
Edward Louis Proebsting, M.S.A., Instructor in Botany.
Raymond Bridgman Cowles, A.B., Instructor in Biology.
Irene Thelma Dahlberg, B.S., Instructor in Home Economics and Assistant Manager of the Cafeteria.
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Craig Sanford, B.S., Extension Instructor in Poultry Husbandry.
William L. Hayes, M.S., Instructor in Entomology.
George Eric Peabody, B.S., Instructor in Extension Service.
Robert Claud Bradley, A.B., B.S., M.S. in Agr., Instructor in Poultry Husbandry.
Francis Maidl, Ph.D., Assistant Curator in Invertebrate Zoology.
Ruth J. Scott, B.S., Extension Instructor in Home Economics.
William Ernest Krauss, B.S., Instructor in Animal Husbandry.
Beulah E. Stannard, B.S., Instructor in Home Economics.
Charles Kelley Powell, B.S. in Agr., Instructor in Poultry Husbandry.
Robert Bellows Willson, B.S., Extension Instructor in Apiculture.
Charles Edward Hunn, Assistant in Plant Propagation.
William Thomas Craig, Assistant in Cereal Investigations.
Walton I. Fisher, Assistant in Plant Breeding Investigations.
Harold Haydn Clum, A.B., Assistant in Botany.
Carl Louis Wilson, M.A., Assistant in Botany.
Mary Isabelle Potter, B.S., M.L.D., Assistant in Landscape Art.
Ruth Gladys Williams, M.A., Assistant in Botany.
Andrew Dillard Suttle, M.S., M.S. in Agr., Assistant in Field Crops.
Stewart Henry Burnham, B.S., Assistant Curator.
Mrs. Ethel Hinckley Hausman, B.S., Assistant in Rural Education.
Daniel Francis Kinsman, B.S., Assistant in Soil Technology.
Hempstead Castle, B.S., Assistant in Botany.
Wayne E. Manning, A.B., Assistant in Botany.
Harold Raymond Curran, B.S., Assistant in Dairy Industry.
Freeman Smith Howlett, B.S., Assistant in Pomology.

Arthur Maxwell Brunson, M.S., Assistant in Plant Breeding.
Cynthia Westcott, A.B., Assistant in Plant Pathology.
Thomas Levingston Bayne, jr., B.S., Assistant in Rural Education.
Charles Grover McBride, B.S. in Horticulture, Assistant in Marketing.
Bernard Smit, B.S., Preparator in Entomology.
Alton L. Markley, B.S., Assistant in Agricultural Chemistry.
Dorothy Willison, B.A., Assistant in Agricultural Chemistry.
Richard Hall Peabody, B.S., Assistant in Dairy Industry.
Cecil D. Schutt, Assistant in Animal Husbandry.
Benjamin William Barkas, B.S., Assistant in Rural Economy.
Fred Harrison Dennis, Assistant in Plant Breeding Investigations.
Stuart Taylor Danforth, B.S., Assistant in Aquiculture.
Elizabeth Keyes, B.S., Assistant in Biology.
Norman H. Stewart, A.B., M.S., Assistant in Biology.
Leola Josephine Kruger, A.B., Assistant in Biology.
Grace Hall Griswold, B.S., Assistant in Entomology.
Frank Lee DuMond, B.S., Assistant in Forestry.
Milislav Demarec, B.S.A., Assistant in Plant Breeding.
Allan Goodrich Newhall, A.B., Assistant in Plant Pathology.
George Quincey Lumsden, B.S., Assistant in Forestry.
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Karl Herman Fernow, B.S., Assistant in Plant Pathology.
Henry G. Good, B.S., Assistant in Entomology.
Olin Whitney Smith, B.S., Assistant Secretary.
Willard Waldo Ellis, A.B., LL.B., Librarian.
George Wilson Parker, Managing Clerk.

THE WINTER COURSES

The winter courses have been part of the regular work of the College of Agriculture since 1893, when the course in general agriculture was established. The courses are now eight in number.

1. Agriculture
1. Dairy Industry
3. Poultry Husbandry
4. Fruit Growing
- [5. Home Economics.] Not given in 1922-23.
6. Flower Growing
7. Vegetable Gardening
- [8. Game Farming.] Not given in 1922-23.

The course in agriculture is entirely elective, the student choosing his own schedule of subjects under the guidance of a faculty supervisor. The course is intended primarily for persons who are engaged in general farming or who expect to take up farming. The other seven courses, or groups, are more or less fixed professional courses intended for persons who desire to specialize in the respective fields.

All the winter courses will begin on November 8, 1922, and will close on February 16, 1923. Instruction will begin at 8 a. m. on November 9. No work will be given on Thanksgiving Day; and none will be given from December 21, at 1 p. m., to January 4, at 1 p. m., these days being allowed for Christmas recess.

Correspondence concerning these courses and other instruction in the College of Agriculture may be addressed to The Secretary, College of Agriculture, Cornell University, Ithaca, New York.

Two-Year Courses

It is advised that students plan to spend at least two winters at the College, in the first winter taking general courses in agriculture, and in the second winter specializing in the subjects in which they are particularly interested. The large number of elective subjects in the course in agriculture makes it possible for students to register in that course for a second year without duplication of specified subjects of study.

Practical Work is made a special feature in the winter courses. The student is expected to perform all the various operations as carefully as if he were working at home as a practical farmer. In the courses in dairy industry, poultry husbandry, game breeding, and home economics, the instruction is in large part practical, and the students have an opportunity of becoming familiar with all the essential operations in these enterprises. In the courses in agriculture, fruit growing, flower growing, and vegetable gardening, there is necessarily a smaller amount of practical work; advantage is taken, however, of the greenhouses, barns, and laboratories, in demonstrating to the students some of the operations that would naturally be conducted in the summer season. Whenever possible, the aim is to make the practical work take up as large a part of the student's time as do the lectures.

Excursions to points of special interest have been made a feature of the course in poultry husbandry. Such excursions are conducted in other courses also whenever practicable.

The word *hour* in the following schedules means one lecture of one hour each week, or one period of two and one-half hours of laboratory or practice each week during the term; in the case of the professional dairy course, twice as much time during one-half of the term.

Certificates

Students who complete a schedule of at least fifteen hours with grades of D or better will be given certificates of record. Students desiring such certificates must notify the Secretary's office before the close of the course.

The City and the University

Ithaca is situated in Tompkins County, at the head of Cayuga Lake. It is a city of about seventeen thousand inhabitants. It is reached by the Lehigh Valley, the Delaware, Lackawanna and Western, and the Auburn Short Line, Railroads. The University stands on a plateau about four hundred feet above the lake. The officers of instruction and administration at Cornell University number nearly eight hundred. The campus and farms cover 1436 acres. The New York State Game Farm, recently established under control of the University, lies adjacent to the university farm and comprises 166 acres.

year in acquiring practical knowledge of the business before entering this course. Students who have not previously had a considerable amount of farm or poultry experience cannot, as a rule, be recommended to positions of responsibility until they have spent a season on an approved poultry farm. This is particularly true for the better positions, in which managers or superintendents are wanted to take charge of poultry farms.

DESCRIPTION OF THE WINTER COURSES

COURSES IN AGRICULTURE

Most of the young men who come for a winter course expect to engage in general farming or hope to obtain positions as superintendents of farms on which diversified agriculture is practised. It is for these that the general course in agriculture is especially designed. Persons who plan to specialize will register in one of the professional courses or groups.

On the other hand, the course in agriculture can be taken with advantage also by those who plan to do special work in agriculture later. It gives an opportunity for laying a broad foundation of general knowledge as a basis for subsequent specialization. This course gives a general survey of agriculture in practically all its phases. It is strongly advised that persons desiring to pursue one of the special winter courses should first take the course in agriculture and postpone their special work to the following winter.

Choice of subjects. Students may choose from the following courses such subjects as they desire to take and are able to schedule without conflict. No student may take less than twelve or more than a total of eighteen hours without special permission, and sixteen hours is as much as the average student can carry satisfactorily. [For definition of hour, see page 17.]

So far as students in general agriculture are concerned, the courses in agricultural chemistry, farm crops, and soils form a unit, and these courses cannot be selected separately unless one or more of them have been passed in a previous winter course.

Agricultural Chemistry

100. **Agricultural Chemistry.** Two hours a week. Lectures, Section A, T Th, 8; Section B, T Th, 9. Caldwell Hall 100. Professor Cross and Mr.—.

An elementary course dealing with some fundamental chemistry and its relations to agriculture. Attention is given to the composition and chemical properties of plants, soils, fertilizers, feeding stuffs, insecticides, and fungicides.

Agricultural Economics and Farm Management

1. **Farm Records and Accounts.** Two hours a week. Lecture, W, 3. Dairy Building 222. Laboratory, M W F, 10-12.30. Farm Management Building 102. Assistant Professor NOBLE.

Farm inventories; cash accounts; income tax reports; single-enterprise cost accounts; complete farm cost accounts; other farm records. Special emphasis is given to the interpretation of results and their application in the organization and management of farms. Laboratory fee, \$2.

2. **Farm Management.** Three hours a week. Lecture, M F, 3. Dairy Building 222. Laboratory, T Th or S, 10-12.30. Farm Management Building 102. Professor SCOVILLE.

Lectures, recitations, and laboratory practice. Farming as a business; types of farming; balance of business; size of business; rates of production; farm layout; building arrangement; marketing; ways of starting farming; forms of tenure and leases; choosing and buying a farm; use of capital and credit; planning, organization, and management of specific farms. Laboratory fee, \$1.

3. **Cooperative Marketing.** Two hours a week. Lecture, T 4. Caldwell Hall 143. Laboratory, T, 10-12.30. Basement, Forestry Building. Professor —.

In this course are studied some of the fundamental principles underlying cooperative marketing, the laws of New York State governing cooperative enterprises, and the workings of the principal cooperative marketing associations. Laboratory fee, \$1.

Agronomy

200. **Soils.** Two hours a week. Must be preceded or accompanied by Agricultural Chemistry 100. Section A, Lectures, T Th, 2. One demonstration period a week, T or F, 11-1. Caldwell Hall 100. Professor BUCKMAN. Section B, Lectures, T Th, 4. One demonstration period a week, M or W, 11-1. Caldwell Hall 100. Professor G

Remove this application without separating the pages

NEW YORK STATE COLLEGE OF AGRICULTURE AT CORNELL UNIVERSITY

APPLICATION FOR ADMISSION TO WINTER COURSES

Name of applicant IN FULL.....

Last name

First name

Middle name

Permanent home address (number and street, or R. F. D.)

Place..... *County*..... *State*.....

Date of birth, month..... *day*..... *year*.....

Nationality..... *Married*..... *Date of this application*.....

Name of parent or guardian, or person to be notified in case of serious illness or accident.....

Address of parent or guardian.....

Name of school or college last attended.....

Place..... *State*..... *When?*..... *How long?*.....

Have you ever before registered in this or any other college?.....

When?..... *Where?*..... *In what course?*.....

Have you received any degree or certificate?..... *What?*..... *Where and when?*.....

OVER

What has been your practical experience in farm work and in the special work covered by the winter course in which you are registering?

What has been your residence and occupation during the past five years?

Occupation 1918.....*Place*.....*State*.....

Occupation 1919.....*Place*.....*State*.....

Occupation 1920.....*Place*.....*State*.....

Occupation 1921.....*Place*.....*State*.....

Occupation 1922.....*Place*.....*State*.....

What church do you attend?.....

REFERENCES.—I am personally acquainted with the above applicant and know.....to be of good moral character, industrious, studious, and physically and otherwise capable.*

Name.....*Name*.....

Position.....*Position*.....

Address.....*Address*.....

***Two endorsements are necessary, and should be preferably by your teacher and your pastor or a public official, not a member of your own family. These persons should sign the application themselves.**

NOTE.—The applicant must answer ALL the questions asked on both sides of this application blank. When the blank has been answered in full, mail it to Robert P. Sibley, Secretary, College of Agriculture, Cornell University, Ithaca, New York.

GUIDE FOR THE APPLICANT

Before filling out the previous page the applicant should make sure, by means of a form similar to the one shown below, that the subjects he desires do not conflict in time. Most of the courses offer options in laboratory periods so that with the exercise of care one can generally arrange to include the subjects desired. Students in general agriculture should note that Agricultural Chemistry 100, and Agronomy 200 and 201, form a unit to be taken at the same time.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9						
9-10					Required Lecture	
10-11						
11-12						
12-1						
2-3						
3-4						
4-5						
5-6						

Meteorology

1. **Elementary Meteorology.** Two hours a week. Lecture, M, 9. Laboratory, W, 9-11. Dairy Building 341. Assistant Professor MORDOFF.

This course is designed to present the more essential phases of meteorology and climatology and their relations to agriculture. Some time will be spent in studying the principles and methods of practical weather forecasting from weather maps and local observations.

Plant Breeding

1. **Plant Breeding.** Two hours a week. Lectures and discussions, T Th, 9. Forestry Building 210. Assistant Professor BUSSELL.

A consideration of some of the general biological principles concerned in reproduction in plants, and the better-known facts of heredity and variation, followed by discussion of the methods of plant breeding as applied to certain types of crops.

Plant Pathology

1. **Plant Diseases.** Three hours a week. Lectures, S, 9. Roberts Hall 292. Practice, Section A, for students in general agriculture, M, 9-12, T, 9-11; Section B, for students in fruit growing, T, 11-1; Th, 10-1; Section C, for students in flower growing, W, 11-1; F, 10-1. Bailey Hall, West Basement. Professor BARRUS and Messrs. KIRBY and ———.

The first two weeks will be spent in studying the structure and development of plants and of organisms causing disease. The more important diseases of commercial crops will then be studied carefully in regard to their symptoms, cause, and control. Students will have an opportunity during the latter half of the term to select for study certain diseases in which they have a special interest. Laboratory fee, \$1.50, breakage deposit, \$3.

Pomology

2. **General Fruit Growing.** Three hours a week. Lectures, T W Th, 9. Roberts Hall 292. Professor HEINICKE.

This lecture course is designed for students who desire a general knowledge of fruit growing. It covers practically the same topics as course 1 in fruit growing (page 36), but in less detail.

