

# CORNELL UNIVERSITY OFFICIAL PUBLICATION

Volume XIX

Number 5

## Announcement of Farm Study Courses

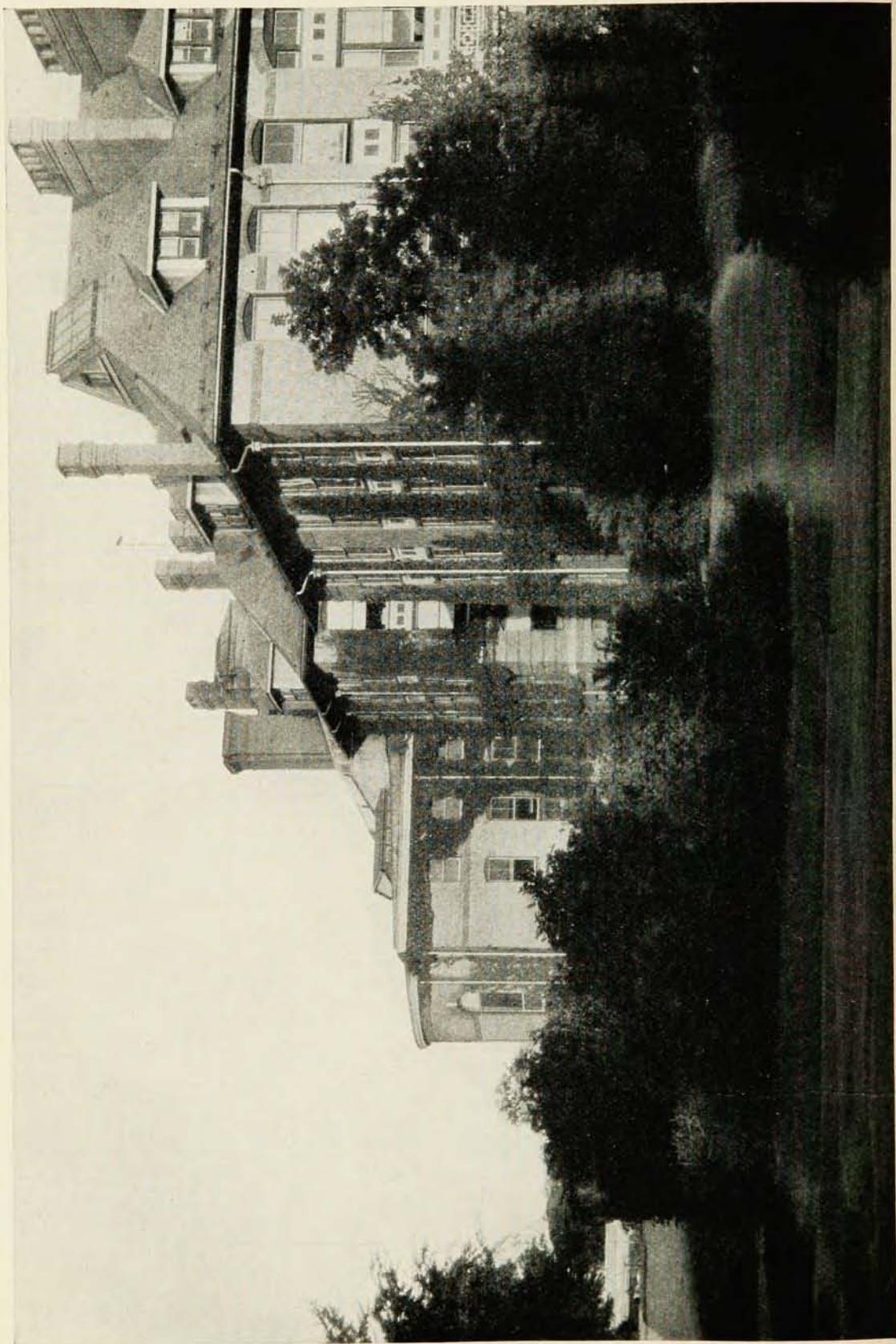
New York State  
College of Agriculture

1927-28

Ithaca, New York  
Published by the University  
November 1, 1927







**ROBERTS HALL AND STONE HALL**

Roberts Hall is the main administration building on the campus of the College of Agriculture, and Stone Hall houses the Agricultural Library and the Botany Department.

## CORNELL FARM STUDY COURSES

### OFFICERS OF ADMINISTRATION

Livingston Farrand, President of the University.  
Albert Russell Mann, Dean of the College of Agriculture.  
Carl Edwin Ladd, Director of Extension.  
Bristow Adams, Chief of Publication.  
George Samuel Butts, Supervisor of Farm Study Courses.

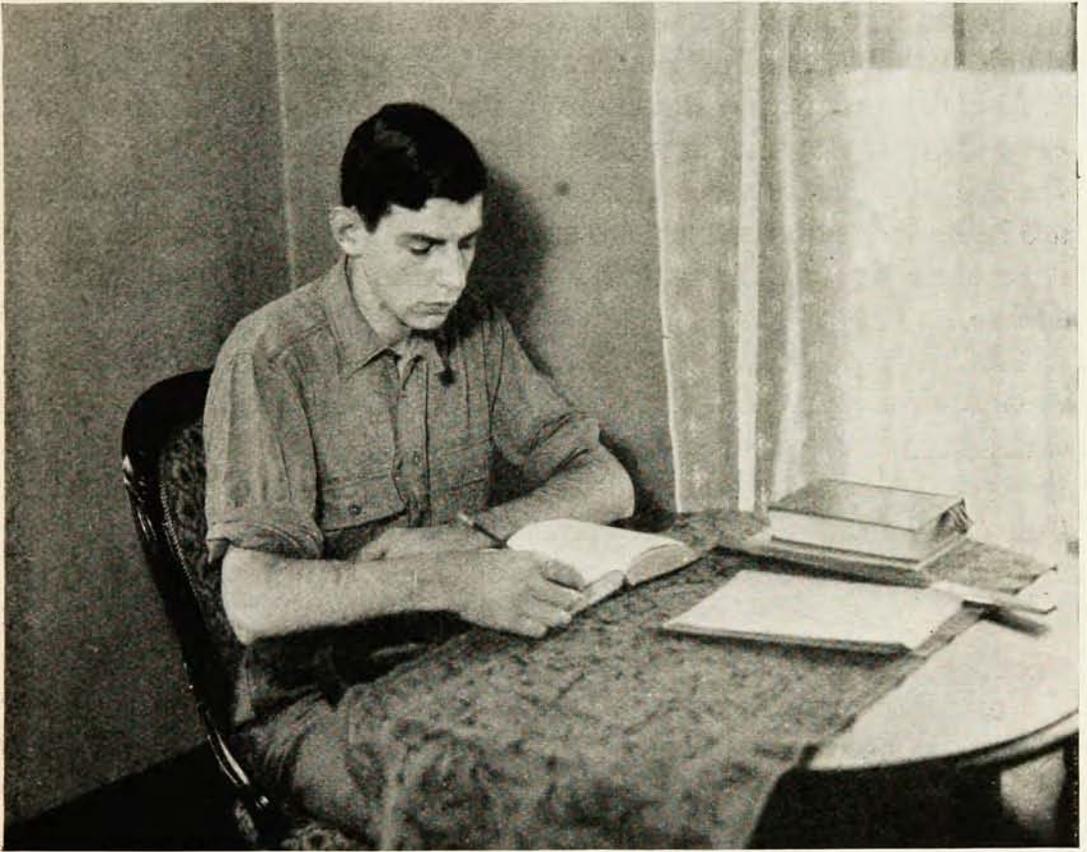
### INSTRUCTING STAFF

Herbert Andrew Hopper, Extension Professor of Animal Husbandry.  
Edmund Louis Worthen, Extension Professor of Soil Technology.  
Joseph Oskamp, Extension Professor of Pomology.  
Robert Byron Hinman, Assistant Professor of Animal Husbandry.  
Herbert John Metzger, Extension Assistant Professor of Animal Husbandry.  
George Harold Rea, Extension Assistant Professor of Apiculture.  
William Theodore Grams, Extension Instructor in Animal Husbandry.  
Walter Gurnet Krum, Extension Instructor in Poultry Husbandry.  
Paul Jones Chapman, Extension Instructor in Entomology.  
Roland Franklin Bucknam, Extension Instructor in Farm Management.  
Maurice Chester Bond, Instructor in Marketing.  
Homer Seymour Pringle, Extension Instructor in Rural Engineering.  
Wilfred Douglas Mills, Extension Instructor in Plant Pathology.  
Julian Creighton Miller, Instructor in Vegetable Gardening.



NEW YORK STATE COLLEGE OF AGRICULTURE  
CORNELL FARM STUDY COURSES

Good farmers now know the value of study. They realize that farming is a complex business, and that scientists and other experts are searching every phase of agriculture to aid farming, to improve farm life, and to enable a farmer to do more work with less hard labor. These scientists have put the results of their studies in print,



USING SPARE MOMENTS

Hundreds of New York State farmers find a few hours each week devoted to study are hours well spent.

and the farmer is reading what they have to say, and profiting by it.

Farmers now want to know where they can get the greatest number of dependable facts at the least cost in time and money. Many are turning to the Cornell Farm Study Courses, which give practical farmers a chance to keep learning new and useful facts about their business. They can study without leaving home almost any branch of farming and can practice on their farms the principles which are taught.

The courses do not attempt to take the place of college classes, and no college credit is allowed for them. They are meant to give the farmer a chance at spare-time study when he may glean from books and from lessons prepared and marked by teachers at the College, new knowledge which will help him to earn more money and to get greater satisfactions from his job.

### Who Can Enroll

The student should have at least a grammar school education, and should be able to practice what he is taught.

So-called practical exercises are a part of most of the courses and they show the application of the instruction given in the lessons. Incidentally this requirement insures that the efforts of the College are being spent on persons who are truly interested. Many students write that they find the practical work the most valuable part of their courses.

One may enroll at any time, and since the lessons are sent out as the reports on the preceding lessons are received, the student's progress depends entirely upon his own initiative. A year is allowed for the completion of any one course, and a certificate is awarded by the College at the completion of each course.

**The courses are available to residents of New York State only.**

### Textbooks and Costs

No tuition or other fees whatever are charged for the courses. The student must purchase his own textbooks which together with postage on reports and necessary writing materials constitute the only expenses. Most of the courses require one textbook only, but for some of them other books are recommended for supplementary reading. It is often worth-while to make a more thorough study of certain questions brought to the minds of the students by the courses, and students have appreciated knowing to what books they should refer.

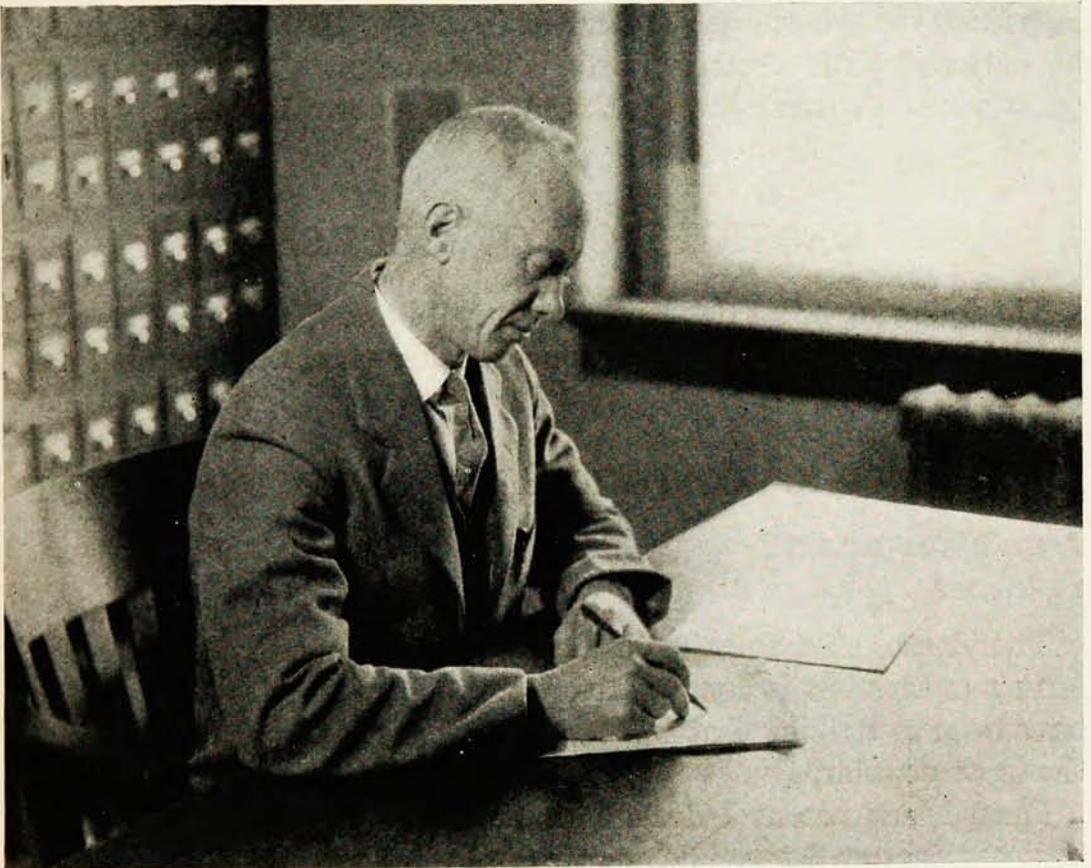
### How to Order Textbooks

At the end of the description of each course is given the name of the textbook required and the names of those recommended, with the name of the publisher of each. If the student is unable to buy the books at a local bookstore, it is suggested that he send to the Cornell Cooperative Society, Ithaca, New York. They will prepay the postage

if the student says in his letter that he is enrolled for a Cornell Farm Study Course. **Orders for textbooks should NOT be sent to the College of Agriculture.**

### How to Enroll

An application blank is at the back of this booklet. Fill in the blank completely and send it to the Cornell Farm Study Courses,



### GRADING REPORTS

Study Course reports are carefully read and graded by specialists who know farm conditions as well as the subjects they teach.

Ithaca, New York. A description of the facilities for doing the practical work in the course desired should be given in full. If more than one course in one general subject is to be taken, the order in which they will be taken should be planned ahead, considering to some extent the time of year. For example, in enrolling for a poultry course in the fall, one should more properly select Poultry Flock Management than Chick Rearing.

After enrolling for a course by means of the application blank and after completing the course, a student may enroll for further courses by letter without an application blank. For this reason this booklet, which gives a description of all of the courses, should be kept for future reference.

### How to Ask Questions

Students often wish questions answered about their own farm businesses. These should be in the form of a personal letter to the instructor for the course the student is taking, and such letters may be enclosed with lesson reports. The student should never ask questions on the same sheet with the lesson reports, however.

## DESCRIPTION OF COURSES

The following pages describe the Cornell Farm Study Courses now available. Inquiries regarding courses other than those offered are welcome.

### AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

#### **Farm Management I**

Mr. R. F. BUCKNAM

16 lessons

The idea of studying the business principles underlying successful farm management is comparatively new. Nevertheless, the results have been so striking that farm-management courses are now among the most popular.

Farm Management I deals with such subjects as: farming as a business, factors determining types of farming, diversified or specialized farming, size of farm as related to efficiency and profits, efficient use of capital both in starting and in carrying on a farm business, methods of renting, choosing a region in which to farm, and choosing and buying a farm.

Unlike most of the courses, this course is open to and is highly recommended for city persons who are considering farming as a business. It is also recommended for young men who have had farm experience and are about to start farming for themselves.

Textbook: *Farm Management* by G. F. Warren, published by the Macmillan Company, New York City. \$2.50.

**Farm Management II**

Mr. R. F. BUCKNAM

15 lessons

Farm Management II naturally follows Farm Management I and must be preceded by it unless the student is a farm owner or has had considerable farm experience.

In this course farm management is considered from the standpoint of the individual farm, and a study is made of intensity of the farm business, crop rotation and maintenance of soil fertility, livestock problems, efficient use of man and horse labor and of equipment, farm layout, farm accounts, and marketing of farm products; an analysis is made of the records of some successful farms. Only those who have satisfactorily completed course I or are otherwise qualified will be admitted to this course.

Textbook: same as for Farm Management I.

**Farm Management III**

Mr. R. F. BUCKNAM

11 lessons.

Farm Management III is the most advanced course and it must be preceded by course II. The purpose of this course is to show how the principles of good farm management have contributed to the success of some actual farms, records of which are studied in detail. The major part of the course is devoted to an analysis of the student's own farm business. This covers labor income, use and distribution of labor, financing the farm business, use of equipment, farm layout, and building arrangement. The student is asked to plan a reorganization of his home farm and work out the system of farm business and organization that he hopes to have ten years in the future.

Textbook: same as for Farm Management I.

**Farm Management IV**

Mr. R. F. BUCKNAM

14 lessons

Probably no business that has an investment as large as the average farm is run with so few records and accounts. The accounts kept by most farmers consist of a meager record of cash receipts and expenses, and these will not show the profit or the loss from the farm as a whole, not to speak of the separate enterprises making up the farm business.

The principal purpose of keeping accounts is to furnish a means of studying a business. This course shows the student how to keep farm records and accounts and how to use the results shown by them for

increasing the profitableness of his farm business. It covers the following subjects: farm inventory, farm cash accounts, crop accounts, dairy accounts, poultry accounts, and labor accounts; and at the end practice is given in keeping and closing a complete set of farm accounts. All bulletins and account books are furnished by the College and are mailed as needed.

Textbook: same as for Farm Management I.

### **Agricultural Prices I**

Mr. R. F. BUCKNAM

11 lessons

We are passing through a period of readjustment in agriculture. Every great war disturbs economic relationships and this disturbance is reflected in the movement of prices. The study of prices, therefore, offers one key to a better understanding of the present agricultural situation.

The general purpose of this course is to provide a background that will help to interpret the important movements of prices. It is especially intended to promote the continued study of *Farm Economics*, a periodical which is sent regularly to the student after he is enrolled, and similar sources of information. The course deals with the following topics: general price level, business cycle, price cycles in agriculture, relation of production to prices, relation of demand to prices, relation of wages to prices, influence of the after-war price situation on general farm management, general price outlook, and judging the trend of prices.

Textbook: *The Agricultural Situation* by G. F. Warren and F. A. Pearson, published by John Wiley and Sons, Inc., New York City. \$3.00. The student must also subscribe to *Crops and Markets*, published by the Bureau of Agricultural Economics, Washington, D. C. The cost is \$1.00.

### **Agricultural Prices II**

Mr. R. F. BUCKNAM

6 lessons

Agricultural Prices II is similar to course I except that it is shorter and is especially adapted to the use of county agents and of teachers of agriculture in high schools and secondary schools of agriculture in New York State. Only in special cases will others be admitted.

Textbook: *The Agricultural Situation* by G. F. Warren and F. A. Pearson, published by John Wiley and Sons, Inc., New York City. \$3.00.

**Cooperative Marketing**

Mr. M. C. BOND

14 lessons

Cooperative Marketing is a brief study of farmers' cooperative business organizations. Although special attention is given to cooperative marketing enterprises, consideration is given also to cooperative buying organizations and to other types of cooperative business.

The fourteen lessons consider such topics as the development and present status of farmers' cooperative business organizations, cooperative corporation, cooperative laws of New York, financing cooperative corporations, how to analyze and interpret financial statement of cooperative organizations, business organization of cooperative associations, marketing functions performed by cooperative associations, and problems of cooperative organizations.

Textbooks: *Cooperative Marketing* by O. B. Jesness, published by the J. B. Lippincott Company, Philadelphia. \$3.00. *Corporation Finance* by Arthur Stone Dewing, published by the Ronald Press Company, Evening Post Building, New York City. \$2.50.

## ANIMAL HUSBANDRY

**Feeding and Management of Dairy Cows** Professor H. A. HOPPER  
9 lessons, 4 practical exercises

Dairying is probably the most important single farm enterprise in New York State, and the demand for milk from near-by large cities is increasing year by year. This, of course, makes efficient management of the dairy herd of great importance to both the farmer and the consumer.

This course deals with practical problems of feeding and managing dairy cows economically. It is intended for persons who are either actually in the milk-producing business or have a chance to study a herd of cattle at first hand.

The following topics are covered: feeding for milk production, kinds and composition of feeds, fitting and management of cows for production records, costs of producing milk, housing, and causes and treatment of some of the common ailments and diseases of cattle.

Textbooks: *Dairy Cattle and Milk Production* (1923 edition) by Clarence H. Eckles, \$3.25; and *Dairy Farming* by C. H. Eckles and G. F. Warren, \$1.60. Both are published by the Macmillan Company, New York City.

**Dairy Herd Improvement**

Professor H. A. HOPPER

9 lessons, 1 practical exercise

The best management cannot produce satisfactory results from inferior cows. Thousands of dollars are wasted annually in this State alone in feeding cows which do not pay their board. The efficient dairyman tries to raise the quality of his herd.

This course presents practical ways and means of getting better cows. First, the inferior cows must be identified and removed, and then better ones obtained by better breeding practices. Breeding practices and methods of improvement which can be followed by all are presented clearly and in detail. The course should appeal to the man of limited means who realizes that good cows are essential to good profits, and are easily within his reach.

Textbooks: same as for Feeding and Management of Dairy Cows.

**Rearing Calves and Heifers**

Assistant Professor H. J. METZGER

6 lessons, 5 practical exercises

The care which a calf receives in the first few months can determine to a great extent whether or not it will make a good cow. However, this course considers not only the essential steps in rearing the calf from birth to maturity, but it recognizes that more than good feed and care is necessary to produce a good cow. So much depends upon the health and the vigor of the parents, as well as upon the sanitary conditions of housing and care, that these also receive attention.

The topics with which this course deals are: feeding of calves, both with milk and milk substitutes; housing, which includes ventilation and plans for stables and pens; losses from the common diseases of calves and heifers, and how they can be prevented; and diseases of parents which affect offspring, with special emphasis on abortion.

Textbook: *Dairy Cattle and Milk Production* (1923 edition) by Clarence H. Eckles, published by the Macmillan Company, New York City. \$3.25.

**Sheep and Wool Production**

Mr. W. T. GRAMS

16 lessons, 5 practical exercises

Sheep are coming back to many New York farms. This course is valuable to producers of both wool and mutton, and describes practices which successful shepherds in the State find profitable. It requires work with a flock and follows its management throughout the year.

The course considers such topics as establishing the flock, winter care and feeding, rearing lambs, the wool grower and the wool trade, common ailments of sheep, dipping, trimming the feet, parasites and parasitic diseases, stomach worms, summer feeding and care, feeding for market, winter or hothouse lambs, fitting for the show ring, judging sheep, and breeds.

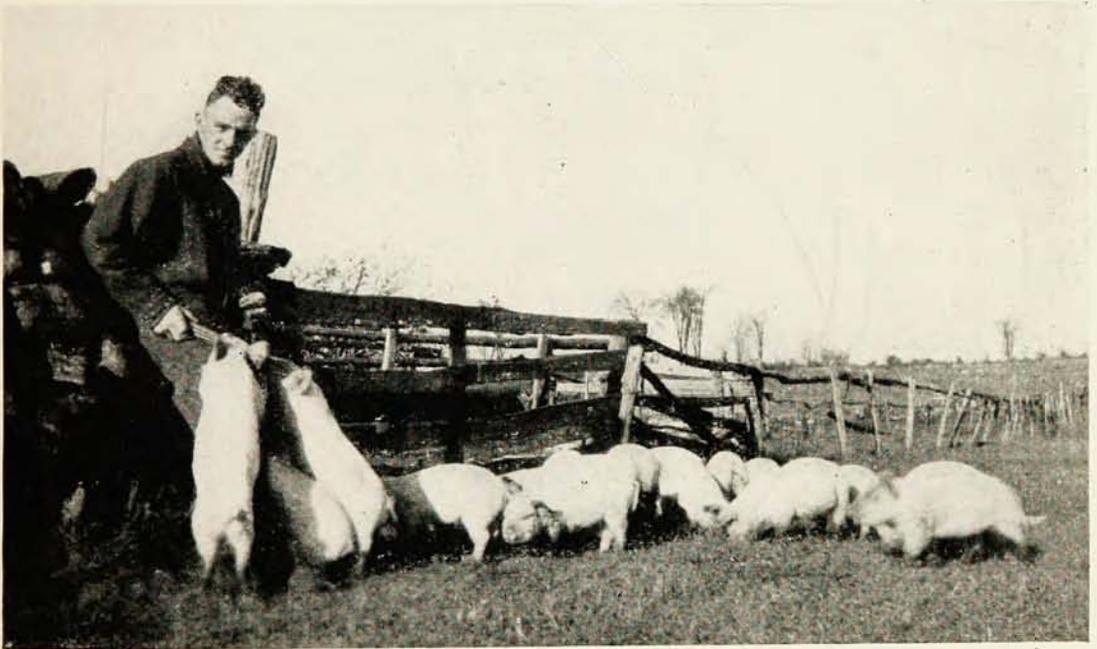
Textbook: *Sheep Management, Breeds, and Judging* (1918 edition) by Frank Kleinheinz, Madison, Wisconsin. \$1.75. It is published by the author.

### Pork Production

Assistant Professor R. B. HINMAN

15 lessons, 2 practical exercises

Pigs, rightly handled, fill an important place on many New York farms. This course deals especially with New York conditions,



### COMBINES PRACTICE AND STUDY

Ralph E. Parker, Potsdam, N. Y., with a bunch of pigs which he raised according to Cornell methods. Mr. Parker recently completed the course in Pork Production.

and is based on the practices found profitable by practical swine producers as well as of scientific men.

The subjects considered are the care of the herd throughout the year, brood sows and pigs, housing, forage crops, feeds, feeding and rations, diseases, judging, breeds for New York, breeding and market-

ing. A study is also made of the cost of producing pork in New York State.

Textbook: *Pork Production* by William W. Smith, published by the Macmillan Company, New York City. \$3.00.

## BEEKEEPING

### Beekeeping

Assistant Professor GEORGE REA

12 lessons, 7 practical exercises

Many New York State farmers find beekeeping both a fascinating and profitable side line to their farm business, and some have apiaries which demand their full time and attention. Bees are not unlike dairy cows or poultry in that the best care and management are necessary to avoid disease and to have profitable production. A knowledge of how to market honey and other products of the apiary is also necessary to the successful beekeeper.

The lessons and exercises consider such topics as a survey of the beekeeping industry, apiary site and equipment, study of the colony and the individual, state laws regarding bees, general care and management for both comb and extracted honey production, and the grading and marketing of honey.

Textbook: *Beekeeping* by Everett Franklin Phillips, published by the Macmillan Company, New York City. \$2.50. Recommended books: *The ABC and XYZ of Bee Culture* by A. I. and E. R. Root, published by the A. I. Root Company, Medina, Ohio, \$3.00; and *Productive Bee-keeping* by Frank C. Pellett, published by the J. B. Lippincott Company, Philadelphia. \$2.50.

## FRUIT GROWING

### Orchard Fruits

Professor J. OSKAMP

17 lessons, 10 practical exercises

Mr. W. D. MILLS

The course in Orchard Fruits is offered to meet the demand of New York State fruit growers for help in solving their problems. It is equally useful for the man who grows fruit as a side line with other types of farming as for the large commercial grower. The course is adapted especially to New York conditions.

The first few lessons acquaint the student with the fruit industry both in New York State and in the United States. The rest of the course covers such subjects as orchard soils, fertilization, cultural

methods, pruning, thinning, spraying, pollination and propagation. Some attention is given also to cost of production and efficient methods of handling and marketing the crop.

Textbook: *The Commercial Apple Industry of North America* by J. C. Folger and S. M. Thomson, \$3.00; and *Textbook of Pomology* by J. H. Gourley, \$2.60. Both are published by the Macmillan Company, New York City.

### Small Fruits

36 lessons, 12 practical exercises

Professor J. OSKAMP

Mr. W. D. MILLS

Mr. P. J. CHAPMAN

Small-fruit growing is an important industry in certain sections of New York State, and this course has been very beneficial to a large number of growers.

The course covers such subjects as selection of sites, implements, varieties, propagation, care and management of plants and plantation, protection from insects and diseases, and harvesting and marketing. The practical exercises require that the student be in a position to grow most small fruits, such as strawberries, raspberries, blackberries, currants, gooseberries, and grapes.

Textbook: *Productive Small Fruit Culture* by Fred Coleman Sears, published by the J. B. Lippincott Company, Philadelphia. \$3.00.

Recommended books: *A Manual of Fruit Diseases* by Lex R. Hesler and Herbert H. Whetzel, \$3.00; and *Manual of Fruit Insects* by Mark V. Slingerland and C. R. Crosby, \$3.75. Both are published by the Macmillan Company, New York City.

## POULTRY HUSBANDRY

### Poultry Flock Management

13 lessons, 7 practical exercises

Mr. W. G. KRUM

Keeping poultry as a business has increased greatly in New York State during the last few years. Poultry responds to scientific treatment very readily, which in part probably accounts for the great popularity of the poultry farm-study courses.

This course deals with the management of a laying flock and covers housing and hygiene, feeds and feeding, artificial illumination, culling, diseases, and record keeping. The practical exercises give the student an opportunity to carry out most of these operations

under the guidance of the College and, of course, this requires that the student have a flock of chickens.

Textbook: *Practical Poultry Management* by James E. Rice and Harold E. Botsford, published by John Wiley and Sons, Inc., New York City. \$2.75. The following three books are recommended but not required: *Poultry Production* by William Adams Lippincott, published by Lea and Febiger, Philadelphia, \$3.50; *Poultry Diseases* by Raymond Pearl, Frank M. Surface, and Mayne R. Curtis, published by the Macmillan Company, New York City, \$2.50; *Poultry Breeding and Management* by James Dryden, published by the Orange Judd Publishing Company, Inc., New York City, \$2.00.

### **Chick Rearing**

Mr. W. G. KRUM

8 lessons, 4 practical exercises

Raising baby chicks is one of the most interesting and at the same time it can be one of the most discouraging aspects of the poultry business. The most experienced poultrymen will often lose many chicks, and beginners sometimes have a mortality that is discouraging indeed.

Every aspect of caring for chicks from the time they are a day old until they are mature pullets ready for the laying house is thoroughly covered. A study is also made of brooder houses and stoves, pointing out the essential features to be looked for when purchasing a brooder stove. Students, after completing this course, often express wonder that any of their chicks ever reached maturity with the care which they were accustomed to giving them.

Textbook: *Practical Poultry Management* by James E. Rice and Harold E. Botsford, published by John Wiley and Sons, Inc., New York City. \$2.75. Recommended books: *Poultry Production* by W. A. Lippincott, published by Lea and Febiger, Philadelphia, \$3.50, and *Poultry Diseases* by Raymond Pearl, Frank M. Surface, and Mayme R. Curtis, published by the Macmillan Company, New York City, \$2.50.

### **Poultry Breeding and Incubation**

Mr. W. G. KRUM

8 lessons, 2 practical exercises

Poultry breeding and incubation are both taught in the same course because the two subjects are very closely related. Chicks

of good quality demand a price which makes it profitable for the hatchery-man to pay particular attention to selecting his eggs from high producers. This makes a knowledge of selection and breeding essential to anyone hatching chicks and especially to large hatchery-men.

The course covers classification of breeds, principles of selection, selecting breeders, breeding methods, pedigreeing, formation of egg and development of chick, natural incubation, selection of eggs, and artificial incubation.

Textbook: *Poultry Production* by W. A. Lippincott, published by Lea and Febiger, Philadelphia. \$3.50. Recommended books: *Practical Poultry Management* by James E. Rice and Harold E. Botsford, published by John Wiley and Sons, Inc., New York City, \$2.75, and *American Standard of Perfection* by A. C. Smith, editor; printed and published by the American Poultry Association. \$2.50.

### Marketing Poultry Products

Mr. W. G. KRUM

8 lessons, 4 practical exercises

It is often said that the farmer and poultryman spend so much time in producing that they have neglected the equally important job of finding the best market for their products. This is probably true in most instances. This course should lead to a better understanding of market requirements and problems, and of the relation of the producer to the markets.

The course covers the following topics: poultry as a world industry, quality of eggs, grading, packing, and shipping eggs, preparing poultry for market, preservation of eggs and poultry, the work of the distributors, and cooperative marketing.

Textbook: *Marketing Poultry Products* by W. A. Lippincott, published by John Wiley and Sons, Inc., New York City. \$3.00. Recommended book: *Poultry Production* by W. A. Lippincott, published by Lea and Febiger, Philadelphia. \$3.50.

## RURAL ENGINEERING

### Farm Mechanics

Mr. H. S. PRINGLE

8 lessons

To be able to make minor repairs on a harness, or splice a broken hay rope on the farm immediately when needed, not only saves a

farmer money but time which cannot always be reckoned in dollars and cents. This course teaches one how to do these along with many other operations which a farmer should be able to do. Although only eight lessons are required, the student may select these from a total of fifteen and, of course, if he wishes, he may do all of them.

Instruction is given in the following subjects: rope work, soldering, harness repairing, belts and pulleys, fitting saws, sharpening edged tools, caring for small hand tools, and common rafter framing.

No textbook is required, but *Farm Mechanics, volume I*, by B. B. Robb and F. G. Behrends, published by John Wiley and Sons, Inc., New York City, \$2.50, is recommended. There is a small cost for the supplies needed to do some of the lessons. These supplies, however, can be used on the farm later when actual need for them arises.

## SOILS AND CROPS

### Soil Management

Professor E. L. WORTHEN

12 lessons

Good soil management is the basis of good farm management and in fact of all agricultural prosperity over a period of years. Improper management can deplete the best soils in a few years, and on the other hand soils which are not naturally productive can often be made so by drainage, crop rotation, growing legumes, and by using lime and fertilizer. It is evident, therefore, that a practical knowledge of soils is of the greatest importance to every farmer.

Each lesson in this course is closely related to an actual farming operation. The following topics are covered: selecting the soil and planning its management, growing the crop, controlling the water supply, tilling the soil, manuring, managing field soils, managing pasture soils, managing garden and lawn soils, and managing fruit soils.

Textbook: *Farm Soils* by Edmund L. Worthen, published by John Wiley and Sons, Inc., New York City. \$2.75.

## VEGETABLE GARDENING

### Market Gardening

Mr. J. C. MILLER

18 lessons, 12 practical exercises

Market gardening is an important type of farming in New York State and it is especially profitable near large cities. This course is

intended for persons who are engaged in market gardening as a business and are anxious to make the most profitable use of their land.

The first thirteen lessons cover such general aspects of the industry as soils, growing plants, hotbeds, coldframes and greenhouses, insects and diseases, and marketing as carried on in New York State. The other five lessons are on specific crops. The student is allowed to choose the particular crops which he wishes to study. The practical exercises show the application of the lessons to a market garden according to the season of the year.

Textbook: *Vegetable Crops* by H. C. Thompson, published by the McGraw-Hill Book Company, New York City. \$4.50.

### **Truck Crops**

Mr. J. C. MILLER

16 lessons, 8 practical exercises

This course is much the same as Market Gardening as far as the general subject of growing vegetables is concerned. It is especially adapted, however, to farmers too far from cities to market vegetables daily, but who find it profitable to grow one or more vegetables on a large scale along with other types of farming, and sell them on a wholesale market. A choice of crops studied is also given in this course.

Textbook: same as for Market Gardening.

### **Muck Crops**

Mr. J. C. MILLER

13 lessons

The reclaiming of large areas of muck land for the production of vegetables in New York State has been accomplished largely within the last twenty-five years. Great tracts of muck land are still being developed as rapidly as is profitable.

Muck is decidedly different from upland soil, both in its adaptability for crops and in its management. This course covers the following topics: origin and characteristics of muck soils, extent and distribution of muck soils, adaptability for crops, reclamation and preparation of muck land for cropping, fertilizing of muck lands, seed and seed growing, control of insects and diseases, marketing, harvesting and storage; lessons are also given on crops which are especially adapted to muck land.

No textbook is required for this course, but *Vegetable Crops*, by H. C. Thompson, is recommended as a reference.

**Home Gardening**

Mr. J. C. MILLER

14 lessons

This course is intended for all home gardeners whether in town or in the country. It should be of interest to housewives, and those who have been studying nutrition in home-bureau groups will find the course an interesting and valuable supplement to their food studies. Older boys and girls enrolled for the junior garden project, especially those with a year or more of garden experience, are invited to enroll.

The following topics are covered: soils and their preparation, the moisture supply, fertility and manure, green manures and fertilizers, seeds and seed growing, starting and handling plants, hotbeds and cold frames, insects and diseases, harvesting and storage, leaf crops, root crops, other vegetables, preparing vegetables for the table, and vegetables as food.

Textbook: *Vegetable Crops* by H. C. Thompson, published by the McGraw-Hill Book Company, New York City. \$4.50.

**Vegetable Forcing**

Mr. J. C. MILLER

22 lessons, 13 practical exercises

Although growing vegetables under glass is not so profitable in New York State as it was at one time, some growers are still able to compete with the growers in Florida and California who ship to New York markets, and they have successful businesses in vegetable forcing.

In this course a study is made of vegetable forcing as an industry, greenhouse construction, greenhouse management, which includes heating, fumigation, soil sterilization, and other necessary operations. A study is made of the common vegetables grown under glass in greenhouses and hotbeds.

Although the course is designed for the commercial grower, a greenhouse is not required to carry out the practical exercises. They may be done in hotbeds, in the home garden, and in window boxes.

Textbooks: *Vegetable Forcing* by Ralph L. Watts, \$2.50; and *Greenhouses, Their Construction and Equipment*, by W. J. Wright, \$2.00.

Both are published by the Orange Judd Company, New York City.

# Application for Enrollment

(Please print or typewrite name and address)

Date.....Course you wish.....

Name in full.....

R. F. D.

Street.....Post office.....

County....., N. Y.

How much time can you devote to study?.....

What is your object in taking the course?.....

Give places and extent of your schooling.....

Outline briefly your experience with the subject of this course; tell whether as owner, owner's son, tenant, hired man, and so forth.

What is your occupation?.....Age.....  
(If a farmer, what position on the farm)

Give the location, size, and type of farm where you will do the practical work of the course, describing fully the particular enterprise with which this course is concerned. (See note.)

Are your family members or officers of the farm bureau, home bureau, Grange, cooperatives, or other organizations? State which.....

How did you first learn of the course?.....

*Note:* The information on this sheet guides the instructor in his personal help to you. Use the back for anything further that you think will help him.

Return this blank when filled out to Cornell Farm Study Courses, New York State College of Agriculture, Ithaca, New York.

Put questions you want answered now on another sheet, and be sure to put your name and address on it.

## CORNELL UNIVERSITY OFFICIAL PUBLICATION

Entered as second-class matter, December 14, 1916, at the post office at Ithaca, New York, under the Act of August 24, 1912.

Issued at Ithaca, New York, twice a month from December to June inclusive and monthly from July to November inclusive.

This series of pamphlets is designed to give prospective students and other persons information about Cornell University. No charge is made for the pamphlet unless a price is indicated after its name in the list below. Requests for pamphlets should be addressed to the Secretary of the University at Ithaca. *Money orders should be made payable to CORNELL UNIVERSITY.*

The prospective student should have a copy of the  
*General Circular of Information*

and a copy of one or more of the following Announcements:

*Announcement of the College of Arts and Sciences.*

*Announcement of the College of Engineering.*

*Announcement of the Law School.*

*Announcement of the College of Architecture.*

*Announcement of the New York State College of Agriculture.*

*Announcement of the Winter Courses in the College of Agriculture.*

*Announcement of the New York State College of Home Economics.*

*Announcement of the New York State Veterinary College.*

*Announcement of the University Division of Education.*

*Announcement of the Department of Chemistry.*

*Announcement of the Graduate School.*

*Announcement of the Summer Session.*

*Announcement of the Summer Session of the Law School.*

*Announcement of the Summer School of Biology.*

*Announcement of the Farm Study Courses.*

*Program of the Annual Farm and Home Week.*

*Annual Report of the President.*

Special departmental announcements, a list of prizes, etc.

Other periodicals are these:

*The Register*, published annually in September, and containing, not announcements of courses, but a comprehensive record of the University's organization and work during the last year. Price, 50 cents.

*Guide to the Campus*. Illustrated. Price, 50 cents.

*Directory of the University*. Price, 10 cents.

The *Announcement of the Medical College* may be obtained by addressing the Cornell University Medical College, Ithaca, New York.

Correspondence regarding the Cornell University Official Publication should be addressed to

THE SECRETARY, CORNELL UNIVERSITY,  
ITHACA, NEW YORK.