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## Short course in agriculture: 1918-1919. 1918

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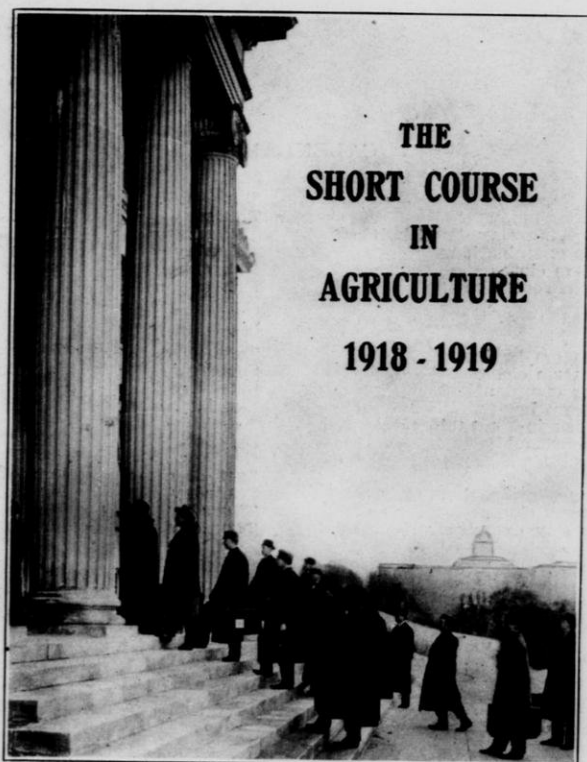
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BULLETIN OF THE UNIVERSITY OF WISCONSIN

Serial No. 950; General Series No. 735



HELPING TO WIN THE WAR

Short Course students arriving to spend 15 weeks of the winter months studying how to increase food production.

COLLEGE OF AGRICULTURE  
OF THE  
UNIVERSITY OF WISCONSIN

MADISON

Published by the University

July, 1918

## CALENDAR

### 1918

Registration days	Tues.-Wed.	Nov. 12-13
Recitations begin	Thursday	Nov. 14
Thanksgiving Day, legal holiday	Thursday	Nov. 28
Make-up examinations	Saturday	Dec. 14
First term closes	Fri. (noon)	Dec. 20
Christmas recess begins	Fri. (noon)	Dec. 20

### 1919

Second term begins	Tues. (8 a. m.)	Jan. 7
Second term closes	Saturday	Feb. 8
Make-up examinations	Saturday	Feb. 8
Third term begins	Monday	Feb. 10
Live stock judging trip (Required of all Second Year students)	Fri.-Sat.	Feb. 21-22
Washington's Birthday, legal holiday	Saturday	Feb. 22
Make-up examinations	Saturday	March 8
Third term closes	Thursday	March 13
Closing Day exercises	Thursday	March 13

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## THE SHORT COURSE IN AGRICULTURE

"If you count up the ten most successful farmers in your county, there is little doubt that you will find that at least six or eight, and possibly all of them, are graduates of the Short Course. If you take up the directory of the Wisconsin Live Stock Breeders' association and check off the names of the men who are today Wisconsin's leading breeders of purebred livestock—many of them national leaders in this line—you will find that at least nine-tenths of them are graduates of the University of Wisconsin Short Course." Those are the statements of one who is a leader in Wisconsin agriculture and education.

Most of the young men who take the course realize that the two winters of training, fifteen weeks each winter, offer them the supreme opportunity of their lives; and they are taking advantage of that opportunity, as have those who have graduated before them, to become the seedsmen, the breeders of better livestock, and above all, the home-builders, of the state.

The purposes of the Short Course are:

1. To teach the fundamental scientific facts necessary to understand the reasons for the common farm practices, and to give a thorough training in practical agriculture.
2. To give this information at the season of the year when the work on the farm is the least pressing, to permit the students to complete the course in the shortest possible time, and to offer the advantages of the College of Agriculture to those who are unable to complete a longer course.
3. To study the problems involved in successful farm management, including the cooperative buying of supplies and marketing of farm crops, the employment of labor, and the organization of the farm as a business enterprise.
4. To create an interest in rural life, to bring the student to realize the possibilities and opportunities of the farm as a social factor and his relations to the community and society, and to train young men to make an intelligent study of the problems affecting the agricultural interests of the state and

to become better farmers and more intelligent and useful citizens.

5. To help young men to secure desirable positions for which they have been fitted by training and experience and where they can increase their store of practical farm knowledge.

6. To enable young men from the various portions of the state to come to know one another and to form acquaintances which will last through life, and to meet and listen to lectures by men prominent in the agricultural world from this and other states and from foreign countries.

### Definite Opportunities For Graduates

During the past year the employment bureau of the College of Agriculture has been unable to meet the rapidly increasing demand for students to work on farms in this and other states. Many of the students have returned to the home farms.

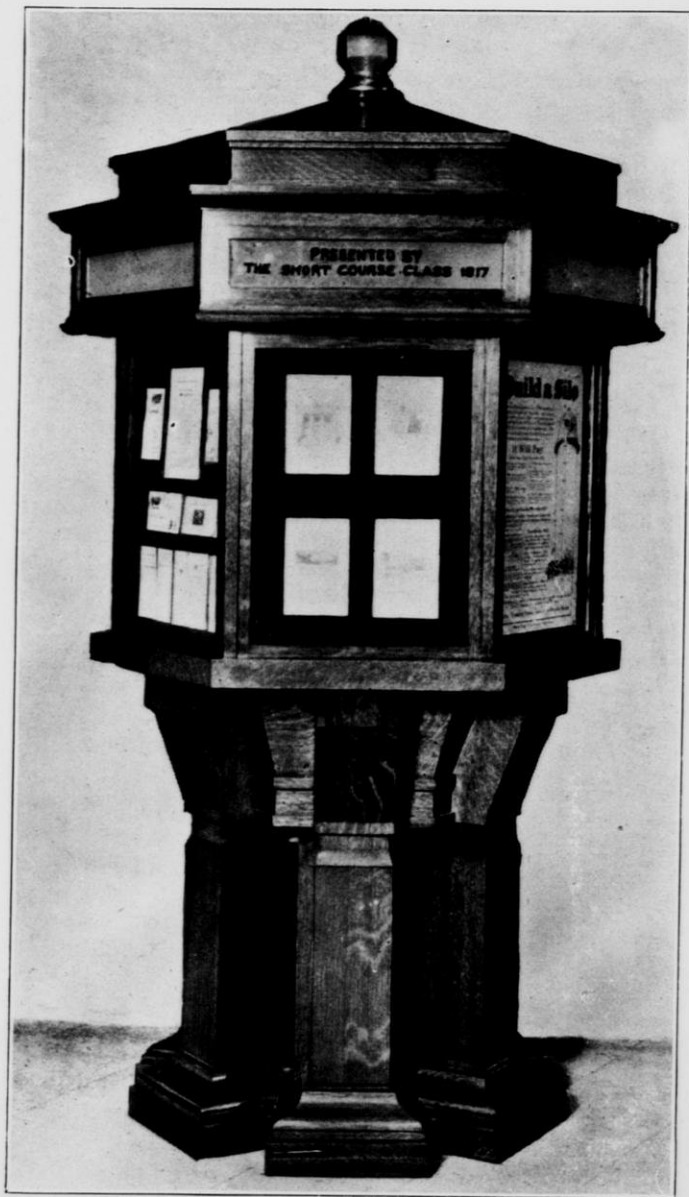
The nature of the positions which are open to Short Course students is shown by the following:

**General Farm Laborer.** The opportunity for farm positions on general farms, other than the home farm, is exceptionally good. These positions pay experienced men from \$40 to \$50 a month with board.

**Cow Testing Work.** This type of work offers good opportunities for students, in this and other states. The work pays from \$40 to \$60 a month and includes living expenses.

**Herdman, Foreman.** Many enterprising and successful farmers need trained men to assume the responsibility of the management of the herds. This is a responsible position that pays from \$50 to \$75 and sometimes \$100 or more a month with board. This type of position serves as a stepping stone for something better; it frequently leads to a managerial job.

Some farms with a large amount of business require the services of a foreman who looks after certain parts of the work of the farm under the direction of a manager. These positions are not as common as those of herdsman, but the pay is about the same or perhaps a little better.



DISPLAY BULLETIN IN AGRICULTURAL HALL

Each short course class leaves some memento at the college.  
This is the gift of the Short Course class of 1917.

**Farm Managers.** The demand for men to manage farms is on the increase. The compensation offered for such positions ranges from \$75 to \$100 and more.

**Share Renters.** Young men with some capital in addition to their training and experience may find opportunities for renting farms on a share basis. This may serve as a stepping stone to farm ownership.

**Return to the Home Farm.** The majority of the students who take the Short Course find it to their advantage to return to the home farm. Many of them enter into partnerships with their parents or brothers and soon become real farm managers.

The real value of the Short Course is well demonstrated in the results that the boys have been able to secure after leaving the College. Figures obtained by the Agricultural Experiment association (composed of former agricultural students) show that the yield obtained for a 5-year period by 1550 former students, averaged 62 bushels an acre, while the best corn in the same community for the same period of time, averaged 49 bushels an acre. This is a difference of 13 bushels an acre, a year, in favor of the improved varieties of corn and the improved methods introduced and practiced by these former students.

### **Distribution of Graduates and Former Students**

Since it was established in 1885, 5,012 students have attended the Short Course in Agriculture. Every county in the state has been represented in the course at some time.

Graduates of the Short Course are now successful farmers in many parts of the United States and in several foreign countries. Many of these students have returned to pursue advanced studies and are now holding prominent positions in agricultural colleges and experiment stations.

### **Does Education Pay on the Farm?**

That Short Course training pays is shown by the fact, based on 825 records, that the Short Course graduates are making labor incomes—the amount left over to pay for the farmer's

labor after paying all expenses and deducting 5 per cent interest on the total investment—of \$739 a year, as against only \$632 made by common school graduates; and the Short Course men live in more expensive houses; more often have modern bath equipment, lighting systems, and furnace heat; and one-fourth of them, as against one-fifth of the grade school graduates, have automobiles.

The equipment of the College of Agriculture is thoroughly modern and practical. The buildings stand for the best types of farm architecture and the ideas represented in their construction can be readily adapted to the average farm. For years attention has been given to securing breeds of live stock that will be representative and true to type. The instruction in the short course is given by the regular members of the staff of the university, and the students have every advantage offered the students in the other courses.

### **The Plan of the Short Course**

The short course consists of three terms of five weeks each. Students may enter at the beginning of any term. The course is so planned that a definite unit of work is completed during each five-week period. The course will start the middle of November and the studies for the first term (five weeks) will be completed at the time of the Christmas holidays. The second term will start after the vacation and the work of this term will close at the end of the first week in February. The third term will begin the second week in February and close the middle of March. The course will be completed in good time to permit the students to return to the farm to begin the spring work.

Under this new plan Short Course students will concentrate upon a few subjects for each term and complete them before taking up other subjects. Instruction is given by means of lectures, recitations, laboratory practice, demonstrations and conferences. Opportunity is given for students to secure answers to individual questions, which makes the work practical and helpful to them.



## SHORT COURSE SCHEDULE—FIRST YEAR

8

Hour	Nov. 14–Dec. 20 1st Term	Jan. 7–Feb. 8 2d Term	Feb. 10–Mar. 13 3rd Term
8–10 Lab.	Sec. 1 Agr. Eng. A Sec. 2 Agronomy A Sec. 3 Soils B	Sec. 2 Agr. Eng. A Sec. 3 Agronomy A Sec. 1 Soils B	Sec. 3 Agr. Eng. A Sec. 1 Agronomy A Sec. 2 Soils B
10–11	Soils A	Plant Life First half Feeds & Feeding C Last half	Dairy A First half Vet. Science A Last half
11–12	Chemistry	Breeds A	Horticulture A
1:30–3:30 Lab.	Sec. 1 Stock Judging B Sec. 2 Dairying B Sec. 3 Shop A or B	Sec. 2 Stock Judging B Sec. 3 Dairying B Sec. 1 Shop A or B	Sec. 3 Stock Judging B Sec. 1 Dairying B Sec. 2 Shop A or B
3:30–4:30 M. W. F.	Sec. 2 Library Practice	Sec. 3 Library Practice	Sec. 1 Library Practice
3:30–5:30 M. W. & F.	Sec. 1 Bookkeeping	Sec. 2 Bookkeeping	Sec. 3 Bookkeeping
3:30–4:30 Tu. Th.	Physical Education	Physical Education	Physical Education
4:30–5:30 Tu. Th.	Military Drill	Military Drill	Military Drill

## SHORT COURSE SCHEDULE—SECOND YEAR

Hour	Nov. 14–Dec. 20 1st Term	Jan. 7–Feb. 8 2d Term	Feb. 10–Mar. 13 3rd Term
8–9	Stock Feeding D	Bacteriology	Farm Management
9–10	Vet. Science B	Poultry A First half Marketing { Last half Rural Inst. }	Breeding & Mgt. E.
10–12 Elect one each term Lab.	Stock Judging F Agricultural Engineering B Shop A, B, C or D	Stock Judging F Agricultural Engineering B Shop A, B, C or D	Stock Judging F Agricultural Engineering B Plant Diseases Shop A, B, C or D
1:30–3:30 Elect one each term Lab.	Horticulture B Plant Diseases Land Drainage D Beekeeping B Poultry 1B	Agronomy B Soil Management D Poultry 2B Entomology A	Markets and Country Life Adv. Farm Dairying C Soil Management D Poultry 3B
3:30–4:30	Agronomy B	Livestock Mgt. G	Road Construction C Farm Forestry
4:30–5:30 Tu. Th.	Military Drill	Military Drill	Military Drill

The course of study is so arranged as to give the students an idea of the fundamental sciences which underlie successful agriculture. The principles and approved practices of profitable farming based upon these fundamental sciences are explained.

The lectures proper occupy about 2 to 3 hours a day and the remainder is devoted to laboratory practice and demonstration work.

Text books are used as an aid to understanding the lectures and laboratory exercises. In the laboratories, students are given practice in such subjects as stock and grain judging, grafting, budding and pruning fruit trees, testing seeds, laying tile drains, operating farm engines and machines, mixing rations for animals, examining of horses for soundness. Classes begin at 8 a. m., continuing until 4:30 or 5:30 p. m. with a noon intermission from 12 to 1:30 p. m. No classes are held on Saturday afternoon.

If a subject is elected by a student it cannot be dropped unless permission is secured from the Short Course committee.

A standing of 60 or over in every subject is required for a Short Course certificate.

Make-up examinations shall be held on the last Saturday afternoon of the term.

On the last Tuesday afternoon of the third term candidates for certificates may take examinations for the removal of any failure.

A candidate for a certificate having three or fewer failures on the Closing Day may, after a lapse of three months, be granted his certificate on passing an examination, to be arranged by the Assistant Dean.

Students having more than three failures upon Closing Day can remove them only by repeating in class the work in which such failures were incurred.

#### **Requirements for Admission**

No entrance examination is required. Students should be at least 16 years old and should have a common school education to pursue the studies of the short course to the best advantage. Persons who have not completed a common school

education, but who are by age and experience fitted for the work may be admitted to the course by special permission. Experience has shown that the young men at least 20 years of age who have a general knowledge of farming are able to secure the greatest benefit from the course.

### Students Who Enter From Other Schools

**County Short Course.** The county agricultural representatives give courses to boys in their counties. Graduates of these county short courses are admitted to the second year of the Short Course upon their diploma and evidence of having done sufficient supplementary work on their own farm problems, but all are required to take in class at least chemistry and library practice of the first year schedule, omitting elective work of the second year conflicting therewith. Those not having completed sufficient supplementary work are required by the Short Course committee to take several of the first year studies in class. This may prevent the completion of their Second Year studies in one year.

**Colleges, Normals, High Schools, County Agricultural Schools.** Students will be given credit for work which corresponds with required work of the Short Course.

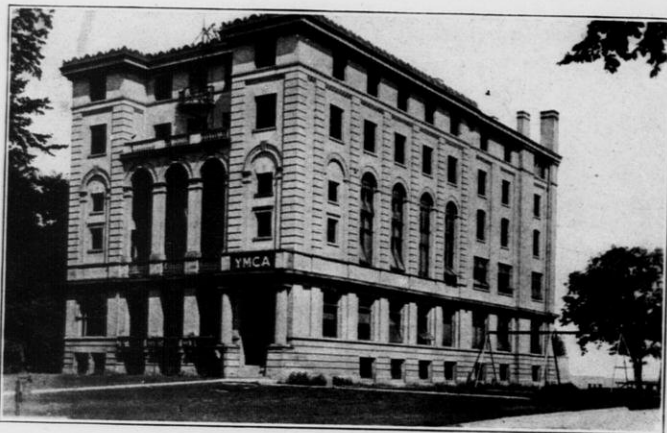
Persons intending to enter the Second Year of the Short Course should make application and present qualifications to the chairman of the Short Course committee not later than September 1, so that there will be time to investigate each application.

### Expenses

	For residents of Wisconsin	Students not residents of Wisconsin
<b>Tuition—</b>		
Tuition .....	Free	\$51.67
Incidental fee for all students....	\$6.50	6.50
Laboratory fee .....	7.00	7.00
Breakage and key deposit (unused portion returnable) .....	2.00	2.00
<b>Total</b> .....	<b>\$15.50</b>	<b>\$67.17</b>
<b>Other Expenses—</b>		
Room .....		\$30 to \$40
Board .....		75 to 90
Books, supplies, etc. ....		15 to 25
Miscellaneous .....		10 to 20
<b>Total</b> .....		<b>\$130 to \$175</b>

### Books Required For Short Course

A number of books will be needed by Short Course students. It is impossible to state in advance what books will be required and we would, therefore, advise prospective students not to attempt to buy any text books until they are instructed to do so in the various classes.



### A BUILDING FOR REAL SERVICE

The Y. M. C. A. helps Short Course students to secure desirable rooms and boarding places; it arranges for Sunday morning assemblies at which prominent men discuss moral and religious questions; it also makes provision for social functions.

### Medical Supervision

Special attention is given to the health of the student-body. The health of the students will be cared for by the clinical department of the School of Medicine. The students will be given a medical examination on entrance, and any student feeling indisposed will be at liberty to consult the physicians in charge of the university clinic free of cost at any time. The university puts forth every effort to safeguard the health of the student-body.

### General Information

The Y. M. C. A. secretary secures a list of rooms and boarding places which will be available for Short Course students and a representative of the organization will be in attendance during registration days to aid the students in getting located. This person will maintain office hours during the Short Course for the purpose of being of service to the students while in the course. A series of Sunday morning meetings for the Short Course students was held during the last winter and a number of interesting excursions were made to various points of interest in and about the city, under the charge of the Y. M. C. A. representative.

Students should not carry large sums of money in currency or checks, but should place their surplus money in a bank and draw upon it from time to time by check or certificate. Bring post-office money orders instead of checks or drafts to avoid the necessary identification at the bank.

Someone will be in attendance at the registration counter to answer inquiries at any time.

### Student Activities

**The Literary Society** is conducted by the students in the Short Course every Friday night. At the weekly meetings members of the society participate in parliamentary drill, debating and public speaking. These meetings are frequently addressed by prominent agriculturists and members of the faculty. Social features are often included.

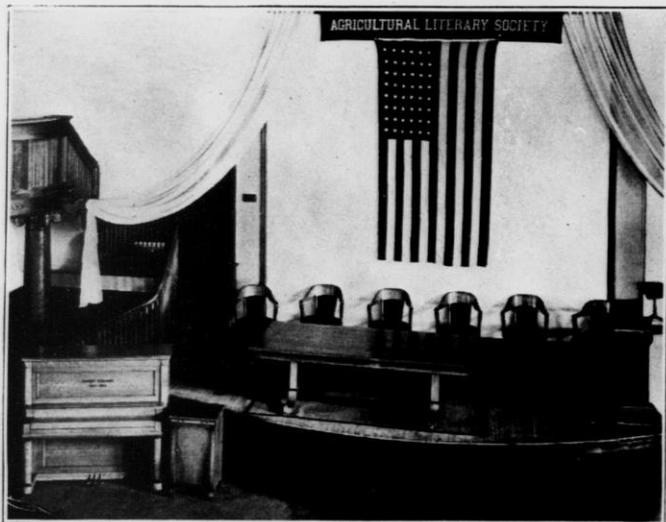
A special feature in the nature of an oratorical contest or class debate is introduced each year. Contestants from both classes enter this contest.

The Short Course students also have a glee club and orchestra under faculty direction, and furnish music for Farmers' Course meetings and other meetings during the winter, as well as for the Literary Society. All students in the Short Course are eligible to compete for places in these organizations.

**The Agricultural Experiment Association.** The association is an organization of former students of the College of Agriculture for the purpose of introducing improved methods

and practices upon the farms of the members over the state. The work includes field tests in the study of soils, crops, livestock, and the business management of the farm.

This association has been especially helpful in conducting field tests with grain and forage crops and the growing and disseminating of purebred seeds.



INTERIOR OF AUDITORIUM, AGRICULTURAL HALL  
Furniture presented by Short Course Literary Society, Classes of  
1912 to 1918.

The annual meeting of this association occurs during the second term of the Short Course and the students are given an opportunity to attend the meetings and to become members. The membership is now about 1550. Professor R. A. Moore is secretary of the association.

#### Closing Day Exercises

Students who complete the studies of the Short Course in a satisfactory manner will be granted Short Course certifi-

cates duly signed by the Dean of the College of Agriculture. Certificates were first granted in 1895, 16 in number.

For the past seven years the certificates have been presented at the Closing Day exercises held on the last day of the course. Some prominent speaker is procured to give the address and special music is furnished for this occasion.

The Second Year class holds Class Day exercises on the afternoon preceding Closing Day.

## DEPARTMENTS OF INSTRUCTION

### AGRICULTURAL BACTERIOLOGY

ASSISTANT PROFESSOR W. H. WRIGHT

The relation of bacteria to agriculture. The main purpose is to acquaint the student with those phases of bacteriology which he should take into account in his daily life. Especial attention is devoted to such subjects as nitrification, nitrogen fixation, and the inoculation of legumes; the contamination of milk and the influence of its bacterial content on its value as food and for butter and cheese making; the preservation of foods and fodders. In the case of the transmissible diseases of animals, those that are of greatest importance to the livestock industry of the state are studied, especially as to their prevention. The relation of bacteria to the health of the farm home is considered in a discussion of farm water supply and sewage disposal. Mr. Wright.

### AGRICULTURAL CHEMISTRY

ASSOCIATE PROFESSOR W. E. TOTTINGHAM

It is the purpose of this course to show how the principles of chemistry operate on the farm. Among the subjects discussed in the lectures are the following: The chemical elements in the air and soil and their relations to plant growth; processes of growth of crops and their relation to animal feeding; the composition of domestic animals at various stages of growth and the processes involved in their use of the nutrients of feeding materials.

Special attention is given to the composition and conservation of farm manure. The sources, composition and use of commercial fertilizers are discussed and also the composition of common insecticides and fungicides. Attention is given to the commercially important constituents of milk and their relation to dairy by-products.

Experiments and demonstrations are presented to show the



properties of common chemical elements and compounds of plants and animals, with the aim of interpreting agricultural chemistry in the language of farm practice.

### AGRICULTURAL ECONOMICS

PROFESSORS B. H. HIBBARD AND D. H. OTIS; ASSOCIATE PROFESSOR C. J. GALPIN; INSTRUCTOR O. JUVE

The work given by this department is designed to improve the business ability of the farmer by teaching methods of keeping accounts, managing farms, selling the produce, and to point out means of improving the conditions of living in the country.

**A. Methods of Farm Bookkeeping.** The elements of bookkeeping applied to the farm. Methods of taking farm inventories and the keeping of cash accounts, and accounts with live stock, farm crops, etc. Mr. Juve.

**B. Methods of Farm Management.** The aim is to show the student how the various farm operations may be organized and correlated so that the entire farm may be handled successfully and economically. The location and size of the farm and its adaptability to the raising of crops and livestock, and the lay-out of the farm, the capital and equipment necessary for the various types of farming, and to the question of farm help. Trips will be taken to various farms to study their lay-out, equipment, and methods of management. Mr. Otis.

**C. Prices, Markets, Credits and Farm Contracts.** The conditions and forces which determine the prices of farm products, methods of marketing, cooperative and independent, and methods of renting farms and securing farm loans. Mr. Hibbard.

**D. Rural Institutions.** The peculiar problems of country life. Methods of improving the conditions of life in the farm home and in the farmer's community. Mr. Galpin.

### AGRONOMY

PROFESSOR R. A. MOORE; ASSISTANT PROFESSORS A. L. STONE, B. D. LEITH, G. B. MORTIMER; ASSISTANT L. R. ZERBEL

The work in agronomy will include a study of the culture and management, methods of improvement, and systems of rotation for farm crops suitable for Wisconsin conditions.

**A. Small Grains.** The cultivation, harvesting, marketing, testing, uses, habits of growth, manufactured products, rotations, and fertilizers for the small grains. The laboratory work of this course aims to give the student a knowledge of the structure of the small grains, the points of distinction between the different varieties, and an intelligent understanding of the principles and practices of judging. Mr. Mortimer.

**B. Forage Crops, Weeds, and Seeds.** Lectures and laboratory work on corn, alfalfa, clovers and other forage crops. The lectures include a discussion of the best methods and practices in sowing, handling, testing, selection and improvement of the forage crops. The laboratory work will consist in type study and judging of corn.



#### GROWN BY SHORT COURSE STUDENTS

Arrangements are made through the Experiment Association whereby Short Course students obtain sufficient improved pedigree seeds to give them a good start. Many Short Course students have paid for their expenses at the University several times over from the sale of improved seeds.

Weeds in reference to their introduction, classification, dissemination, identification and eradication will be given to second year students. The purity and germination of farm seeds as related to weed introduction and the farm profit will also be discussed. Field and weed seeds will be studied under the microscope and their characteristic shapes and markings noted. The student will also be taught to identify the weeds from which the seeds come and to associate the weed and its seed. Mr. Moore and staff.

**AGRICULTURAL ENGINEERING**

ASSOCIATE PROFESSOR E. R. JONES; ASSISTANT PROFESSOR L. M. SCHINDLER; INSTRUCTOR E. C. SAUVÉ; ASSISTANT F. W. DUFFEE

During the Short Course the principles of the gas engine as applied to automobiles and farm tractors will be studied. In the buildings occupied by this department will be found gas engines and various types of tractors, which have been loaned to the university for demonstration purposes. The students taking



**LEARNING HOW TO HELP SOLVE THE LABOR PROBLEM**  
Special emphasis is placed on the gas engine and the farm tractor.

the course will be given every opportunity to become familiar with the advantages of the different types of the machines and will be instructed how to operate and care for them. This feature of the course will be especially valuable as from now on the tractor and gas engine will be important factors in all farm operations.

**A. Farm Buildings and Machinery.** Lectures and laboratory work in the planning and arrangement of farm buildings. The lectures include a discussion on silos, concrete construction, ventilating systems, heating and lighting, farm water supply and sewage disposal systems, gasoline engines, and general farm machinery. The laboratory work will be practical instruction in useful farm practices, such as soldering, tinning, pipe cutting and fitting, rope tying and splicing, and belt lacing. Mr. Schindler and assistants.

**B. Advanced Agricultural Engineering.** Farm machinery. A continuation of work begun in the first year. Practical exercises in the laboratory, supplemented with lectures. Laboratory work is given on steam and gasoline engines and farm tractors, farm implements, such as plows, binders, corn planters, cultivators, etc. Mr. Sauve and assistants.

**C. Country Roads.** The location, construction and maintenance of country roads. Mr. Jones assisted by State Highway Department.

**D. Land Drainage.** Exercises in the plant house or out-of-doors with the surveyor's level, plane-table, drain tile and tiling tools. Planning drainage systems from topographic maps of typical areas and from sketches of particular areas furnished by students. Suprintending the installation of farm drainage systems. Mr. Jones.

## ANIMAL HUSBANDRY

PROFESSOR G. C. HUMPHREY; ASSOCIATE PROFESSORS J. G. FULLER, F. B. MORRISON; ASSISTANT PROFESSOR FRANK KLEINHEINZ; INSTRUCTOR G. BOHSTEDT; ASSISTANTS O. J. DELWICHE, L. KERSTEN, E. KIRST

The courses in animal husbandry given in the Short Course include livestock breeding, judging, feeding, care and management. The extensive herds and flocks of the University farm are supplemented by prize winning animals loaned by breeders of the state.

**A. Breeds of Livestock.** The history, characteristics and utility of the leading breeds of livestock.

**B. Elementary Stock Judging.** Score card practice in the study of market classes and breeds of livestock. Mr.

**C. Feeds and Feeding.** The study of feeding stuffs, principles of feeding, and rations. Mr. Bohstedt.

**D. Advanced Feeds and Feeding.** A continuation of the study of feeds and feeding begun the first year with special application to practical problems. Mr. Morrison.

**E. Breeding and Management.** Lectures on the general principles of breeding and the care and management of dairy cattle and horses. Mr. Humphrey.

**F. Advanced Stock Judging.** This course continues the study of market classes and breeds begun in the first year including competitive judging and practice work in management. Mr. Fuller, Mr. Kleinheinz.

**G. Live Stock Management.** Lectures on the breeding and production of swine, sheep and beef cattle. Mr. Fuller, Mr. Kleinheinz.

**"MORE AND BETTER  
LIVE STOCK"**



**PRESENTED BY  
THE SHORT COURSE CLASS  
1916**

**MORE AND BETTER LIVESTOCK**

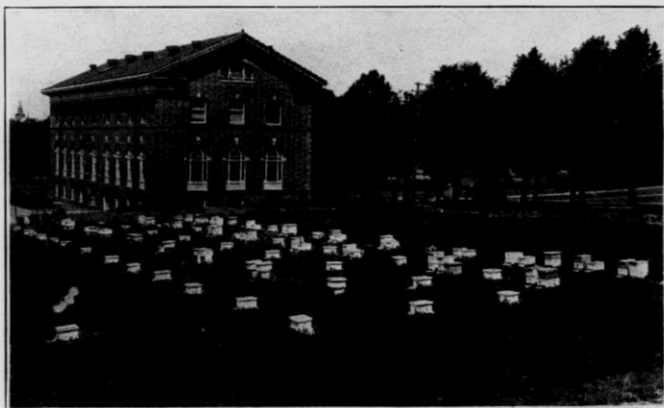
This colored window was presented to the College by the Short Course Class of 1916.

**ECONOMIC ENTOMOLOGY**

PROFESSOR H. F. WILSON; INSTRUCTOR C. L. FLUKE

The importance of insect control on the farm is always recognized by the farmer but his opportunities for study are limited, and the occasional information which he picks up is usually gone from his mind before he has an opportunity to apply it.

**A. Injurious Insects and Methods of Control.** This course is planned to meet that need and the more important insect pests

**UNIVERSITY BEEHIVES**

Beekeeping is one of the profitable sidelines of which the Short Course student learns.

of farm, garden and orchard crops will be considered in sufficient detail to admit of ready recognition and treatment where known. The principles of insect control will be studied and applied to individual insects according to the best known methods. Six two-hour periods each week during the first term of the second year. Mr. Fluke.

**B. Beekeeping.** A course of lectures on practical beekeeping for those students who desire to study the elementary principles of this subject. Lectures and demonstrations in modern beekeeping will be given and each student will have an opportunity to familiarize himself with up-to-date methods and equipment for the handling of bees, and the production of comb and extracted honey. Bee diseases, their recognition, and treatment will also be studied. Six two-hour periods each week during the first term of the second year. Mr. Wilson.

**FARM DAIRYING**

ASSISTANT PROFESSOR G. H. BENKENDORF; INSTRUCTOR A. C. DAHLBERG; ASSISTANT J. C. NORGAARD

In Farm Dairying, students receive instruction in the general principles which are involved in the production, testing, and handling of milk and cream for city markets, creameries and cheese factories, and the making of butter on the farm.

**TESTING THE QUALITY OF DAIRY PRODUCTS**

Most of the important dairy tests have been devised and developed in the dairy department at the University of Wisconsin.

**A. Farm Dairying.** Lectures on the composition of milk and other dairy products; the production of market milk and the handling of milk and cream for factory purposes; care and ripening of cream for farm butter-making; and marketing of dairy products. Mr. Dahlberg.

**B. Farm Dairy Practice.** The new Dairy Laboratory is equipped with the most approved apparatus for the testing of milk, the separation of cream and the manufacture of butter. Practical instruction in all branches of farm dairying, including the testing of milk and cream, the detection of the more common adulterants of these products and the operation of hand separators, churns, butter workers, and other appliances of the dairy. Mr. Norgaard.

**C. Advanced Farm Dairying.** A supplementary course to Dairy A and B. Designed for training men in Cow Testing Association work, the operation of milking machines, the commercial handling of milk and other advanced farm dairy operations. Mr. Benkendorf.

## FARM FORESTRY

LECTURER F. A. AUST

The work given in Forestry is designed to show the relation of forestry to agriculture. The care of the wood lot, wind-breaks, shelter belts, tree planting, selections of species for planting, and methods of propagation, planting, and protection. Mr. Aust.

## HORTICULTURE

PROFESSOR J. G. MCORE; ASSOCIATE PROFESSOR J. G. MILWARD;  
ASSISTANT PROFESSOR J. JOHNSON; INSTRUCTORS G. F. POTTER,  
R. H. ROBERTS

The Horticultural work in the Short Course is designed to give the student a knowledge of the principles and practices underlying successful fruit and vegetable production.

**A. Farm Orcharding and Gardening.** Lectures on the selection of site, planting, soil management, pruning, spraying, varieties, and other orchard problems with special reference to the farm orchard. The farm garden, and methods of making it of greatest service on the farm. Mr. Moore.

**B. Horticultural Practice.** An elective course designed for those desiring more detailed work in horticulture than is given in Horticulture A. Demonstration lectures and laboratory exercises on spraying, preparation of spray materials, grafting, pruning, fruit identification and judging, tree planting, hotbed construction, potato identification, judging and culture; propagation of plants by sexual and asexual means; tobacco culture; truck crops. Students taking this course will have an opportunity to elect the special lines in which they are most interested. Mr. Johnson, Mr. Milward, Mr. Moore, Mr. Potter, Mr. Roberts.

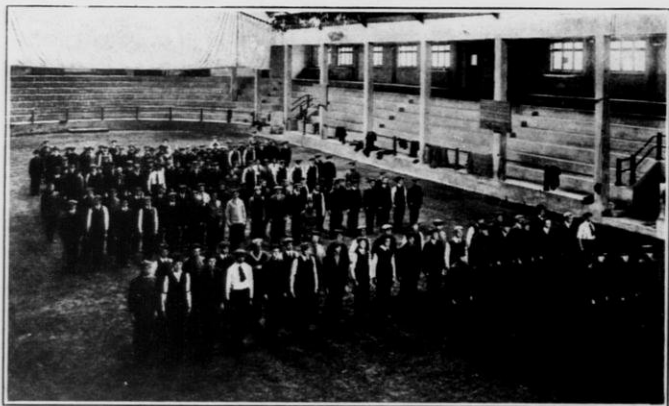
**C. Plant life.** The principles of plant reproduction and growth underlie the culture of all plants. One cannot grow plants most successfully and intelligently without knowing how they secure their food and the factors influencing its conversion into plant tissue. Lectures will be given on life processes of the structure of plants, plant processes, how plants reproduce, effects of external influences, methods of propagation, and ways of improving plants. Mr. Potter.



## LIBRARY WORK

LIBRARIAN C. S. HEAN

The aim of this course is to teach students to use books, papers, and bulletins as tools. Lectures will be given on classification and other library methods, and on the literature of agriculture, including books and serial publications. These lectures will be supplemented by practical work in the library. Special attention will be given to the best ways in which to read and study newspapers, farm papers and bulletins, methods of keeping files and records of valuable articles read, how to get government as well as state bulletins and reports, how these may be filed and indexed so as to be a ready and valuable reference for the busy farmer. Mr. Hean.



### A POPULAR SHORT COURSE ACTIVITY

In war times our country has always relied on the farmer boys, and has never been disappointed.

## MILITARY TRAINING

LIEUTENANT W. G. ATKINS AND ASSISTANTS

The students of the Short Course will be required to take military training. The University of Wisconsin has the enviable distinction of being one of the few "honor" institutions in military science recognized by the national government, a distinction which was obtained through the excellence of the drill of its students. A regular army officer is detailed by the secretary of the war department to act as commandant of the university

cadets. The manual-of-arms used in the regular army will be followed, and students taking this course will enhance their chances for receiving non-commissioned positions should they later enlist in the army or be drafted.

Outside of the beneficial, yet purely physical, results obtained from drill, emphasized during the year's work, there is the large mental development derived from the experience in the management of men. The information received by the Short Course student is of such a character as will better fit him for the exercise of his citizenship after graduation.



#### GYMNASTIC EXERCISES KEEP BOYS HEALTHY

Shower baths for the use of the Short Course students are provided in the Stock Pavilion, where the gymnastic work is given.

#### PHYSICAL EDUCATION

DR. J. C. ELSOM, EXAMINER, AND ASSISTANT

First Year Short Course students will be given a thorough physical and medical examination, and will be required to take one one-hour period a week of developmental exercises, athletics and recreational games under capable direction. An opportunity for voluntary exercise and for the organization of basketball and other teams and the holding of athletic contests between classes, will be given. These activities are carried on in the Stock Pavilion which has been equipped with facilities

for this purpose, including gymnastic and athletic apparatus, lockers and shower baths. Lectures on hygiene and the laws of efficient living will be given by members of the Department of Physical Education. The course is closed by an indoor track meet, with track contests between teams representing the first and second year classes. Dr. Elsom.

### PLANT PATHOLOGY

PROFESSOR L. R. JONES; ASSISTANT PROFESSOR R. E. VAUGHAN

Owing to the demand for instructional work in the control of diseases of farm crops, the following course is offered.



#### SHORT COURSE STUDENTS STUDYING PLANT DISEASES

Here they learn to know the plant diseases and the best methods of controlling them.

**Plant Diseases and Their Control.** A general introduction to the subject. This will include such an acquaintance with the symptoms of the commoner and more important plant diseases of Wisconsin crops that one may recognize them on sight. Special attention will be given to the diseases of field crops and grains, and those of fruits, potatoes, and other horticultural crops. Control measures and their application will be emphasized, and such use made of experiment bulletins and other timely publications as will enable the student to read them understandingly thereafter.

Lectures, demonstrations, and individual laboratory work aiming to give first hand acquaintance with the symptoms of the diseased plants and the characters of the parasitic fungi and bacteria causing the diseases, including methods of over-wintering, spread, and control. Six two-hour periods each week during the last third of the second year. Mr. Jones, Mr. Vaughan.



STUDENTS OPERATING INCUBATORS

A new feature for the coming Short Course will be the opportunity for interested students to secure practical experience in running one or more of the various makes of incubators.

### POULTRY HUSBANDRY

PROFESSOR J. G. HALPIN; ASSISTANT O. N. JOHNSON

The Poultry Department is equipped with modern poultry buildings, colony houses, a very complete line of incubators, brooders, and other poultry apparatus, such as cramming machines and bone cutters. In addition, some twenty-six varieties of chickens, five of geese, and six of ducks, furnish ample material for poultry judging. These will be used to help the student to become familiar with general poultry raising. An extensive file of poultry journals and books is to be found in the Agricultural Library.

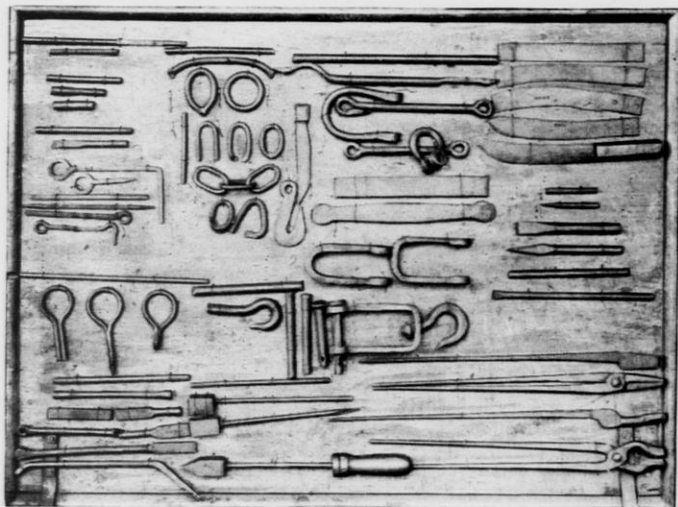
**A. Poultry Raising.** The breeding, feeding and management of poultry under farm conditions with special reference to the keeping of fowls for meat and eggs. Breeding and feeding for winter egg production, poultry house construction, incubating

and brooding, both natural and artificial, killing and marketing dressed poultry, the common poultry diseases. Mr. Halpin.

**1B. Poultry Judging.** The judging of poultry for fancy and utility values. A brief history of some of the more important varieties. Mr. Halpin, Mr. Johnson.

**2B. Demonstrations and laboratory work** in feeding for egg production, packing and marketing eggs, killing and dressing market poultry, caponizing and house construction. Mr. Halpin, Mr. Johnson.

**3B. Incubation and Brooding** and a study of some of the common diseases of poultry. Mr. Johnson.



THE SHORT COURSE IS PRACTICAL  
Samples of what the Short Course students learn to make in the shops.

### SHOP WORK DEPARTMENTS

SUPERINTENDENT A. L. GODDARD; INSTRUCTORS R. N. SCHUMANN, BLACKSMITHING; H. A. BRUNSELL, FARM CARPENTRY AND BUILDING CONSTRUCTION; ASSISTANT, C. F. PETERS

**A. Elementary Carpentry.** Instruction in the use of wood tools, how to sharpen and keep them in order, how to make and use such fixtures as the bench hook and miter box, making tool box, knife box, book rack, model hay rack, or other articles that may be selected to illustrate various types of joints

Instruction is also given in reading the steel square and its use in building operations. Mr. Brunsell.

**B. Elementary Forging.** For first year students. Instruction in the essential operations of forging, such as drawing out, upsetting, pointing, bending and welding mild steel, leading to the application of these operations in making useful articles such as bolts, chain links, rings, clevises of various forms, cold chisels, metal and stone drills, hammers, knives. Instruction in hardening, tempering, drilling, riveting and soldering. Mr. Schumann and Mr. Peters.

**C. Advanced Carpentry.** More advanced work to suit the needs of the individual student. The construction of stairs, window and door frames, cupboards, the making of models of houses, barns, and portable pens, and framing for concrete construction are among the subjects that may be selected. Advanced instruction in the use of the steel square as applied to the cutting of rafters and other complex framing. Mr. Brunsell.

**D. Advanced Forge Work.** A continuation of first year work including more advanced practice. Welding steel of various grades, pointing and sharpening picks, plow shares, etc., brazing, welding, forging and tempering springs is included in practice work as time permits. Mr. Schumann and Mr. Peters.

## SOILS

ASSISTANT PROFESSOR W. W. WEIR; ASSISTANT HARVEY SANDELL

The following courses in soils include lectures supplemented by laboratory exercises which demonstrate the principles taught in the lectures.

**A. Soil Fertility.** Twenty-eight lectures on the soil and its relation to crop production. The principal subjects studied are the soil, its origin and relation to plants and animals; conditions affecting plant growth; plant-food elements and crop needs; importance of water and tilth in agriculture; land drainage; liming; relation of manure, and commercial fertilizers to crop yields and soil improvement. Mr. Weir.

**B. Laboratory Practice** and demonstrational exercises planned to aid the student to apply the principles discussed in Course A. Mr. Sandell.

**C. Soil Fertility.** Laboratory studies upon the texture, tilth, water-holding capacity, lime and fertilizer requirements of soils, and the movements of capillary and gravitational water in them. Conferences on the special requirements of the typical soils as well as those of particular soils reported by students. Mr. Weir.

The fact that the state soils laboratory is operated in the same building with the classes in soils and drainage makes the class work of greater interest and value to students.

**VETERINARY SCIENCE**

PROFESSOR A. S. ALEXANDER; ASSOCIATE PROFESSOR B. A. BEACH

The information given in this course will prove of great value in the breeding, judging, feeding, and general management of farm animals, and will be excellent preparation for those who intend later to enter a veterinary college. As aids to the work, the department has skeletons of the horse, cow, and pig; an Azoux life size dissectible model of a horse, containing 3,000 named parts; separate models of normal and diseased organs; numerous museum specimens and a collection of modern veterinary instruments, casting apparatus and drugs.

It is the aim and object of the instruction to qualify each student to act as an intelligent, capable nurse for ailing animals, and to be able to recognize diseases, to give the first aid treatment where necessary, and to carry out the orders of the attending veterinarian.

The work is required of all short course students and consists of:

A. The study of the structure of the animal body. (First Year students)

B. The animal in health and disease. (Second Year students)

The structure and functions of the various organs of the body are considered first to acquaint the students with normal conditions. This is followed by a discussion of the causes, symptoms, prevention and treatment of the more common diseases of animals. When there is an opportunity, practical demonstrations are given the better to enable the students to recognize diseases and administer medicines. Mr. Alexander, Mr. Beach.

## SECOND YEAR STUDENTS—SHORT COURSE 1917-18

- Amundson, Norman T. . . . . Rice Lake  
 Anderson, Arthur J. . . . . Morrisonville  
 Anderson, Raphael R. . . . . Shawano  
 Apple, Glen E. . . . . La Valle  
 Arnemann, Harold H. . . . . Two Rivers  
 Arneson, Marvin L. . . . . Barneveld  
 Austin, A. Wright. . . . . Waterloo
- Ballman, Theodore A. . . . . Sullivan  
 Bartlett, Harold B. . . . . Pewaukee  
 Berg, Joseph . . . . . Mondovi  
 Brehm, Elmer . . . . . Sheboygan  
 Brown, Melvin B. . . . . Blair  
 Bryant, John D. . . . . Earlville, Ill.
- Carr, Charles G. . . . . Strong's Prairie  
 Carpenter, Clyde W. . . . . Stockton, Ill.  
 Clemmens, William J. . . . . Kansasville  
 Crossman, Walter R. . . . . Lake Mills  
 Culbertson, Merle M. . . . . Medina  
 Cummings, Raymond M. . . . . Delton
- Delsmann, Ervin J. . . . . Manitowoc  
 Dixon, Charles A. . . . . Nekoosa  
 Dobson, James W. . . . . Moweaqua, Ill.  
 Dodge, E. Burnham. . . . . Menomonie
- Einarson, Gremur R. . . . . Detroit Harbor  
 Emmerich, Henry . . . . . Oshkosh  
 Ewen, Edwin C. . . . . Manitowoc  
 Eyers, Fred L. . . . . Steuben
- Fiege, Harvey J. C. . . . . Bayfield  
 Fleming, George W. . . . . Jefferson  
 Foote, Charles L. . . . . Rush Lake  
 Fried, Roy. . . . . Fountain City
- Ganzeveld, Peter. . . . . Beloit  
 Gourdeaux, Claude J. . . . . Flambeau  
 Gray, Harry D. . . . . Memphis, Ind.
- Halverson, George H. . . . . Menomonie  
 Hannevig, M. Elf. . . . .  
 . . . . . Porre Station, Norway  
 Hampton, Clark O. . . . . Lancaster  
 Hanson, Henry O. . . . . Luck  
 Hasse, Herbert J. . . . . Oshkosh  
 Hetzel, Herbert. . . . . Spring Green  
 Hinz, Rubert H. . . . . Ripon  
 Hollender, Fred W. . . . . Oxford  
 Hull, Harold H. . . . . Whitewater  
 Huset, Alvin. . . . . Chetek
- Jaeger, Gilbert A. . . . . Ixonia  
 Johnson, Frank M. . . . . Evansville  
 Johnson, Raymond W. . . . . Spring Valley
- Jones, Thomas R. . . . . Cambria  
 Joseph, Emil M. . . . . Richland Center  
 Joustra, Bert. . . . . Friendship
- Kaiser, Harvey M. . . . . Fond du Lac  
 Kargl, Roman L. . . . . Ft. Atkinson  
 Kolb, Earl W. . . . . Berlin  
 Kruschke, Harold A. . . . . New Richmond
- Loomer, Howard . . . . . Elkhorn
- Martin, Clinton E. . . . . Delavan  
 Masson, Wilfred J. . . . . Lena  
 Mathews, Clair B. . . . . Beloit  
 Mayer, Christian A. . . . . Richfield  
 McCutchin, John R. . . . . Arena  
 Moen, Orlow J. . . . . Cambridge
- Nelson, Oswald G. . . . . Baldwin  
 Nelson, Ray A. . . . . Ft. Atkinson
- Ohlrogge, Robert. . . . . Chilton
- Pearson, Lee . . . . . La Valle  
 Peterson, Elmer L. . . . . Nelsonville  
 Peterson, Howard A. . . . . Luck  
 Pierce, Ralph. . . . . Stockton, Ill.
- Rake, Edwin. . . . . Columbus  
 Reppen, Melvin C. . . . . Dane  
 Ross, Roland W. . . . . Mineral Point  
 Rosenkrans, Dale D. . . . . Paw Paw, Ill.  
 Rowe, Ralph M. . . . . Scandinavia  
 Ruff, Harry T. . . . . Milwaukee  
 Ryf, Hugo J. . . . . Oshkosh
- Schoeneich, Louis E. . . . . Dousman  
 Schuyler, Harry M. . . . . Fish Creek  
 Semrad, John . . . . . Excelsior  
 Shambeau, Walter L. . . . . Two Rivers  
 Smith, Sidney P. . . . . Wauwatosa  
 Snell, Clarence E. . . . . Shawano  
 Stauffacher, Werner W. . . . . New Glarus  
 Swancutt, Lester G. . . . . Evansville
- Tobison, Alfred J. . . . . Coleman  
 Tobison, Rasmus P. . . . . Coleman  
 Thielke, William J. . . . . Madison
- Veum, Nordal H. . . . . Cambridge  
 Vorpahl, Erick H. A. . . . . New Holstein
- Watrud, William G. . . . . Blanchardville  
 Westerkamp, Harold. . . . . Waukesha  
 Zittlow, Charles. . . . . West De Pere





#### SECOND YEAR SHORT COURSE CLASS

These boys have completed two years and are ready to return to the farm to render expert service in producing larger and better crops.

## FIRST YEAR STUDENTS—SHORT COURSE 1917-18

Auby, Henry M. ....	Deerfield	Jensen, Loal R. ....	Kenosha
Austin, Harvey D. ....	Janesville	Johnson, Willard. ....	Blanchardville
Austin, Robert S. ....	Milton		
		Ketchum, Fred. ....	Osseo
Bagley, Earl C. ....	Cambridge	Krall, Raymond J. ....	Antigo
Bast, Arthur P. ....	Appleton		
Baumgartner, John E. ....	Pearl City, Ill.	Lauson, Arthur R. ....	Delavan
Baumgartner, Albert ...	Wrightstown	Lacey, Wm. H. ....	Grand Rapids
Beach, Vernon V. ....	Melrose	Lueptow, Arthur. ....	Kingston
Bemis, Harry J. ....	Rice Lake	Luey, Oliver R. ....	Columbus
Bentheimer, Benj. V. ....	Johnson Creek	Lyle, Carl B. ....	Dandridge, Tenn.
Bichler, Emil. ....	Belgium		
Billgrien, John H. ....	Iron Ridge	Mauger, Raymond J. ....	Mineral Point
Bodendoerfer, Erwin A. ....	Milwaukee	McClosky, Bernard. ....	Green Bay
Brennan, Robt. R. ....	Kendallville, Ind.	McKibbin, Chas. H. ....	Spring Green
Brown, Brice B. ....	Madison	McNally, Harry. ....	Lena
Burgess, Henry A. ....	Shullsburg	Meineke, Herbert H. ....	Two Rivers
		Meyer, Anton. ....	Hubertus
Cantu, Lugardo. ....	Madison	Michels, Harvey J. ....	Peebles
Carter, Irvin J. ....	Mazomanie	Michels, Hiram. ....	Peebles
Cassel, Paul A. ....	Grantsburg	Modeweg, Leslie J. ....	Lake Mills
Collins, Jos. E. ....	Mineral Point	Moths, Wm. H. ....	Fredonia
Coon, Ivan R. ....	Oakfield	Mountain, Francis R. ....	Hartford
Caves, R. M. ....	Coloma	Mueller, John. ....	Darlington
		Mueller, Fred. ....	Darlington
Dobbe, Edward J. ....	Rosholt	Muir, James R. ....	Arcadia
		Mulrooney, Leo A. ....	Mt. Hope
Ebert, Reinhold O. ....	Marion	Murphy, John P. ....	Clearwater Lake
Elmer, Conrad E. ....	Monroe		
Engaas, Abner. ....	Holmen	Ney, Norbert. ....	Hubertus
		Nichols, E. P. ....	Milwaukee
Facklam, Wilbert. ....	Reeseville	Nichols, John L. ....	Edgerton
Ferguson, Charles S. ....	Rosla, Kas.	Noller, Andrew. ....	Colgate
Foster, Leslie L. ....	Elkhorn	Norgord, Andy K. ....	Cambridge
Fuller, Victor J. ....	Lake Geneva	Norris, Isaac H. ....	La Mollie, Ill.
		Northey, Walter W. ....	Palmyra
Gallagher, John J. ....	La Valle		
Gorham, Ralph W. ....	La Valle	O'Keane, Jas. J. ....	Colgate
Grant, Wilbur S. ....	Appleton	Olive, Walter W. ....	Apex, N. C.
Granum, Edwin O. ....	Chetek	Olson, Carl L. ....	Warrens
Gross, Raymond C. ....	Rhineland	Olson, Camp. ....	Cedar Grove
Gross, Dorothy R. ....	Evanston, Ill.	Omdahl, Albert. ....	Eleva
Hale, Harold F. ....	Mauston	Peters, Norman W. ....	Pepin
Hansen, Wilbert E. ....	Denmark	Petroft, Karol. ....	Russia
Hanson, Joseph A. ....	Chetek	Phillips, Ralph W. ....	Cedarville, Ill.
Harrison, Carter M. ....	Wilton	Pingel, William Jr. ....	Withee
Hartsel, Roy M. ....	Edgerton	Prescher, Constantine. ....	Ladysmith
Haville, Floyd F. ....	Bagley		
Helmenstine, Howard L. ....	Blue Mounds	Renovetz, Alex. ....	Rice Lake
Hooper, Geo. W. ....	Palmyra	Reznichuk, Anton. ....	Antigo
Horswill, Earl E. ....	Black River Falls	Riedner, Elmer G. ....	Centuria
Huset, Oscar. ....	Chetek		

Roberts, Ross E. . . . . Stoughton  
 Ross, Frederick . . . . . Oshkosh  
 Ruemmele, Jacob W. . . . . Hudson  
 Rosenstone, Mrs. Laura. Palos Park, Ill.

Saville, Geo. H. . . . . Madison  
 Schrank, John . . . . . Lomira  
 Schwartz, Richard A. . . . . Lomira  
 Sether, Ludwig L. . . . . Iola  
 Sherman, John A. . . . . Allenton  
 Simpson, Henry J. . . . . Superior  
 Sinkule, Jos. J. . . . . Dilly  
 Southcott, Fred, Jr. . . . . Dousman  
 Southworth, John B. . . . . La Farge

Taylor, Herbert. . . . . Iola  
 Tennermann, Will. Jr. . . . . Florence  
 Townsend, Claud T. . . . . Stockton, Ill.

Vleck, Chas. . . . . Eau Claire

Wallum, Edmund B. . . . . South Range  
 Webb, Geo. W. . . . . Poynette  
 Webb, Rolland . . . . . Poynette  
 Webster, Clair S. . . . . Plainfield  
 Wheelock, Richard E. . . . . Green Bay  
 Wieland, Martin . . . . . Lancaster  
 Wilson, Jack D. . . . . Brandon  
 Wood, Raymond A. . . . . Chippewa Falls  
 Woods, Carl D. . . . . Reedsburg



#### FIRST YEAR SHORT COURSE CLASS

The farm boys have been serving their country by preparing themselves for greater usefulness on the farm.

# SHORT COURSE IN AGRICULTURE

## Application for Admission

To the Manager of the Short Course,  
University of Wisconsin, Madison.

I hereby apply for admission to the Short Course in Agriculture for the term beginning Nov. 12, 1918. I have had \_\_\_\_\_ years experience on a farm.

Should I change my address before Nov. 12 or should anything occur which will prevent my attendance, I will at once notify you, so that my place can be filled by some other applicant.

Name \_\_\_\_\_ Age \_\_\_\_\_

Post Office \_\_\_\_\_

County \_\_\_\_\_ State \_\_\_\_\_

Rural Route No. \_\_\_\_\_ or Street and No. \_\_\_\_\_

Dated \_\_\_\_\_

Fold here

I have been induced to take the Short Course by \_\_\_\_\_  
(kindly indicate by an X what influenced you to take the Short Course)

His name \_\_\_\_\_

(Give name of the former Short Course student who influenced you to take this Course)

Address \_\_\_\_\_

The Short Course Circular \_\_\_\_\_

Influence of School Teacher \_\_\_\_\_

Announcements of Farm Papers \_\_\_\_\_

Influence of County Superintendent \_\_\_\_\_

Announcements in Local Papers \_\_\_\_\_

Influence of College Instructor \_\_\_\_\_

Exhibits at County or State Fair \_\_\_\_\_

Influence of some Friend \_\_\_\_\_

Other influences, and remarks \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Wis.

Madison

College of Agriculture

MANAGER OF SHORT COURSE

THIS SPACE FOR THE ADDRESS ONLY

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