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BULLETIN OF THE UNIVERSITY OF WISCONSIN

Serial No. 1222, General Series No. 1003

# THE SHORT COURSE IN AGRICULTURE

1923-24



COLLEGE OF AGRICULTURE  
OF THE  
UNIVERSITY OF WISCONSIN

### SHORT COURSE CALENDAR 1923-24

1925

Registration days	Mon.-Tues.	Nov.	12-13
Recitations begin	Wed.	Nov.	14
Thanksgiving Day—legal holiday	Thurs.	Nov.	29
Make-up examinations	Sat.	Dec.	15
First term closes	Wed. (12 m.)	Dec.	19
Christmas recess begins	Thurs. (8 a.m.)	Dec.	19

1924

Registration of new students	Wed.	Jan.	2
Recitations of second term begin		Jan.	3
Make-up examinations	Sat.	Feb.	2
Second term closes	Wed.	Feb.	6
Third term begins	Thurs.	Feb.	7
Livestock trip—required of second-year students	Fri.-Sat.	Feb.	22-23
Washington's Birthday—legal holiday	Fri.	Feb.	22
Make-up examinations	Sat.	Mar.	8
Third term closes	Fri.	Mar.	14
Closing Day exercises	Fri.	Mar.	14

Entered as second class matter June 10, 1898, at the post office at Madison, Wisconsin, under the act of July, 16, 1894.



*The  
Dairy  
Building*

*The  
Agronomy  
Building*



## The Short Course in Agriculture

**T**HE Short Course in Agriculture was established in 1885 and since that time has been an important factor in the agricultural development of the state. Among its graduates are many of Wisconsin's most successful farmers. These men recognize today the value of the course in giving technical knowledge, a broadened vision of agriculture, and an inspiration for the future. They are boosters for the course at all times.

Since it was established 6,320 students have attended the Short Course in Agriculture. Every county in the state has been represented in the course at some time. Not only has



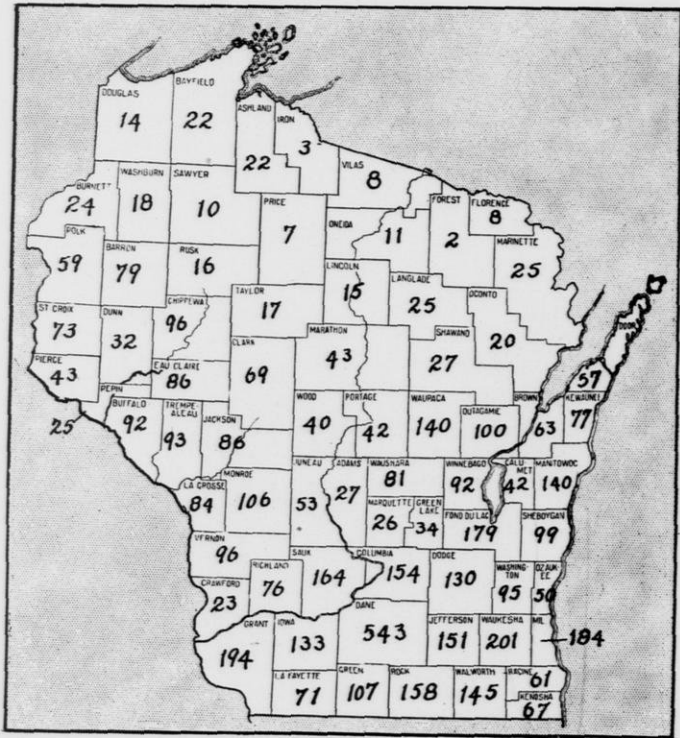
*The  
Dairy  
Barn  
Group*

Wisconsin profited by the course, but in many parts of the United States and in several foreign countries are found successful farmers who attended the Short Course.

**Short Course Changes.** A man may attend for five weeks or several years. A Short Course Diploma is granted for two years of satisfactory work. A Short Course graduate may return for a third or fourth year in the extended schedule. It is well to plan to come several winters and become a trained man. A few students have returned to pursue advanced studies and are now in agricultural colleges and experiment station work.

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 adapted readily to the average farm. For years attention has been given to obtaining breeds of livestock

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 to the students in the other courses.



*Where the Short Course men come from.*

*Every county in the state is represented in the list of graduates*

### **Purpose of the Short Course**

The primary purpose of the Short Course is to train young men for the business of farming. That it has and is accomplishing this purpose is definitely proven in the fact that probably 95 per cent of its graduates return to the farm. This

fact alone would be ample justification for the high esteem in which this course is held by the agricultural interests throughout the state but there are many more valuable results to be obtained by taking a course of this kind, more far reaching and important than one might realize at first thought.

Other purposes are:

(1) **To secure a wider vision of the importance of agriculture** as a life's vocation and to show the opportunity for the trained man in making it a success.

(2) **To learn the fundamental scientific facts** necessary to understand the reasons for the common farm practices, and to secure a thorough training in practical agriculture.

(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 find greater interests in rural life**, to realize the possibilities and opportunities of the farm as a social factor and its relations to the community and society, and to give a chance to make an intelligent study of the problems affecting the agricultural interests of the state so one may become a better farmer and a more intelligent and useful citizen.

(5) **To enable you to meet young men with agricultural interests from various sections of the state** and to form acquaintances which will last through life, and to meet and listen to lectures by men prominent in the agricultural world.

(6) **To secure training in special agricultural fields** such as tractor operation, herdsman training, cow testing, poultry raising, etc. Agriculture is becoming more specialized and the elective system of the second year and extended schedules allows qualified men to specialize.

(7) **To obtain this information at the season of the year when the work on the farm is the least pressing** and to offer the advantages of the College of Agriculture to you who are unable to complete a longer course.

(8) **To help you secure desirable positions** for which you will be fitted by training and experience and where you may increase your store of practical farm knowledge.

Most of the young men who take the short course realize that it offers 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.

### 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



*"A Class of White Faces"*

good. These positions pay experienced men from \$35 to \$75 a month with board.

**Herdsmen, 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 \$70 to \$85 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 farmers 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.

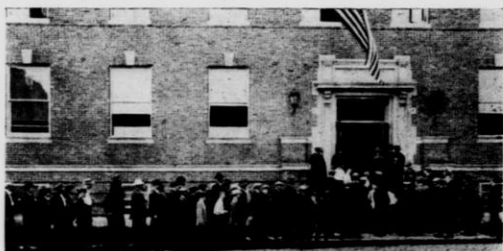
**Farm managers.** The demand for men to manage farms is on the increase. The compensation offered for such positions varies according to the experience and training of the man.

**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.** Most of the students who take the Short Course find it to their advantage to return to the home farm. Many of them enter into partnership 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 get after leaving the college. Figures by the Agricultural Experiment Association (composed of former agricultural students) show that the yield of corn obtained for a 5-year period by 1,550 former stu-

*A call  
to the  
class  
room*



dents 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.

**Cow testing work.** This type of work offers good opportunities for students, in this and other states. The work pays from \$60 to \$100 a month and includes living expenses.

#### **Requirements for Admission**

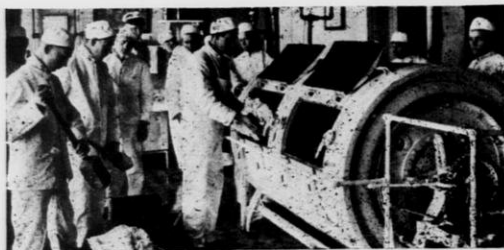
**General requirements.** No entrance examination is required. Students should be at least 16 years old and should have a common school education to pursue the studies of the Short Course to the best advantage. Persons who have not completed a common school education, but who are by age



and experience fitted for the work may be admitted to the course. 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.

**High school graduates.** Persons who are graduates of a high school or its equivalent may enter the first or second year schedule. It is advised that they take the work of the first year as a foundation for the work of the second year and extended schedule. A record of high school graduation with subjects and standings should be sent to T. L. Bewick, Director of the Short Course. A Short Course Diploma may be secured by completing 32 credits (six terms) of work.

Graduates of county schools of agriculture, county agricultural short courses of Wisconsin, and persons from high



*Interested  
in  
Dairying*

schools who may present two or more years of agricultural instruction or others with equivalent agricultural instruction may enter the Short Course and receive the Short Course Diploma upon the completion 16 (three terms) credits of the extended schedule or equivalent work of the first year as the Short Course Committee may require.

Persons desiring to enter the second year and extended schedule of the Short Course should send to the Director of the Short Course their record of subjects and standings from county school, short course, high schools or other courses as soon as possible after October first so there will be time to pass on records and plan schedule before the opening of the first term.

### Short Course Plan of Work

The Short Course consists of three terms each year 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, except in a few subjects of the second year and extended schedule. Vacation at Christmas is the same as in other courses.

All of the subjects of the first year schedule are required but the work of the second year and extended schedule is entirely elective. This provides that the persons in the second year and extended schedule may select their own branches of study subject to rules of the Short Course Committee as given on page 10. The Short Course is now arranged so a person may attend for five, ten or fifteen weeks per year. It is planned that a Short Course Diploma be granted upon the completion of two year's work equivalent to 34 credits. Preliminary training as explained under "Requirements for

*The  
Horticultural  
Building*



Admission" may shorten this period. Parliamentary practice and physical education are required for the first two years of work. Library instruction is required in the first year schedule.

The new plan of the Short Course provides for subjects on a credit basis and for a strengthening of the Short Course instruction. The Short Course graduate may return for his third or fourth winter and select subjects of the extended schedule which he was unable to get in former years. In this way he will get much more nearly what the collegiate student gets in his full year period of instruction.

The new arrangement allows one to choose such subjects during the second year and extended schedule as will fit him for special lines of work such as herdsmen, cow testers, tractor experts, seedsmen, etc., and at the same time offers a wide selection to the student wishing a general training in practical agriculture.

The course is planned for a maximum of four subjects and parliamentary practice, physical education and library. This provides for lectures, recitations, laboratory practice, and demonstrations, with definite assignments for study during free periods and evenings. 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 ra-



*The  
Soils  
Building*

tions for animals, examining horses for soundness. Classes begin at 8 A. M., continuing until 4:30 with a noon intermission from 12 to 1:30 P. M. No classes are held on Saturday afternoon.

#### **Regulations of Short Course**

In addition to regulations given in other sections of this circular the following have been adopted by the Short Course Committee. 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 closing day, may, after a lapse of three months, be granted his certificate on passing an examination 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.

Students not attending classes between 8 and 4:30 except during noon intermission are expected to study in their rooms or in the library.

The College of Agriculture will not offer particular subjects of the second year or extended schedule unless elected by at least eight students.

The first year schedule consists of 18 credits and physical education, parliamentary practice and library. The second year course and the extended schedule consist of a minimum of 16 credits and physical education and parliamentary practice. It is expected that subjects of the second year require more home study than those of the first year.

The minimum amount of work any student of the extended schedule is allowed to carry during any one term is 4½ credits and the maximum is 6 credits exclusive of physical education and parliamentary practice.



*Agricultural  
Chemistry  
Building*

Certificates may be given for each 16 credits of work completed by Short Course graduates who return and complete additional subjects.

In special cases where students of the Short Course later meet the University entrance requirements for collegiate courses the Executive Committee will consider granting of credits for Short Course subjects in which a grade of 70 per cent has been recorded.

Satisfactory home project work may be substituted for one and one-half credits in either the first or second year schedule. This credit is granted only upon presentation of satisfactory final records as required in Boys' and Girls' Club Work of the state or its equivalent.

Special courses such as the Tractor Course of the second and third term may be developed in extended schedule and elected under direction of the departments with approval of Short Course Committee. Under this arrangement the Agricultural Engineering department announces a Tractor Course to begin January 2 or February 7 and last five weeks.

### EXPENSES

The expenses of the Short Course consist of general and college fees as follows:

**General Expenses.** The chief expenses are for room and board. The following are estimates for the year as secured from student reports for the winter of 1922-23:

Room—average price of \$3 per person per week .....	\$45 per year
Board—average of \$6.50 per week.....	\$97.50
Books—supplies etc., and miscellaneous.....	\$20.40

The expenses for room and board depend on the requirements of the individual and his willingness to room at a distance from the college section. Two or more students taking a room or suite of rooms materially lessens the expense. Board depends on the demands of the individual. The executive office will have lists of rooms on registration day and assist students in finding desirable locations. The total expenses will vary from \$135 to \$225 per fifteen weeks.

### College Fees

Students enrolling the first term pay for the entire year. Students enrolling at the beginning of the second or third

term pay approximately two-thirds or one-third respectively, of the total yearly fee. The following shows the amounts paid:

Total fees for 15 weeks for those entering the FIRST TERM	For Residents of Wisconsin	Not Residents of Wisconsin
Tuition .....		51.67
Incidental .....	\$10.00	10.00
Infirmary .....	2.50	2.50
Laboratory Fee .....	10.50	10.50
Laboratory deposit .....	2.00	2.00
Gymnasium fee.....	1.50	1.50
	\$26.50	\$78.17
Total fees for 10 weeks for those entering the SECOND TERM		
Tuition .....		34.45
Incidental .....	6.67	6.67
Infirmary .....	2.00	2.00
Laboratory fee .....	7.00	7.00
Laboratory deposit .....	2.00	2.00
Gymnasium fee .....	1.00	1.00
	\$18.67	53.12
Total fees for 5 weeks for those entering the THIRD TERM		
Tuition .....		17.22
Incidental .....	3.34	3.34
Infirmary .....	1.00	1.00
Laboratory fee .....	3.50	3.50
Laboratory deposit .....	2.00	2.00
Gymnasium fee.....	.50	.50
	\$10.34	\$27.56

Students who pay for the entire course, but who drop out at the end of the first or second term, are refunded two-thirds or one-third, respectively, of the entire fee. Students must notify the Director of the Short Course on the day of withdrawal in order to secure refund.

Students who drop out during one of the five week terms are refunded the entire fee for each whole term remaining and on the following basis for the partial term remaining according to time of withdrawal: 75 per cent if during the first week of the term, and 50 per cent if during the second week of the term. After the second week, no refund is issued for that term.

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.

**Articles from Home.** Students will need overalls and jacket and these may be brought from home. Rubber-soled shoes, such as tennis shoes, light sweaters or jerseys are at times needed in physical education work. Physical education is required of all. A light gymnasium suit is required and a regulation gymnasium towel may be purchased in Madison. Laundry for gymnasium suits and towels is provided by the gymnasium fee.

**Books.** A number of books will be needed by Short Course students. It is impossible to state in advance what books will be required and it is not advisable for prospective students to buy any textbooks until they are instructed to do so.

### **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.

The infirmary fee provides for care without extra charge in the university infirmary or hospital in case of sickness, but students requiring special care—major surgery, treatment of the eye, ear, and so forth, are referred to specialists at the student's expense.

### **Social Activities**

**The Literary Society** is conducted every Friday night by the students in the Short Course. 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.

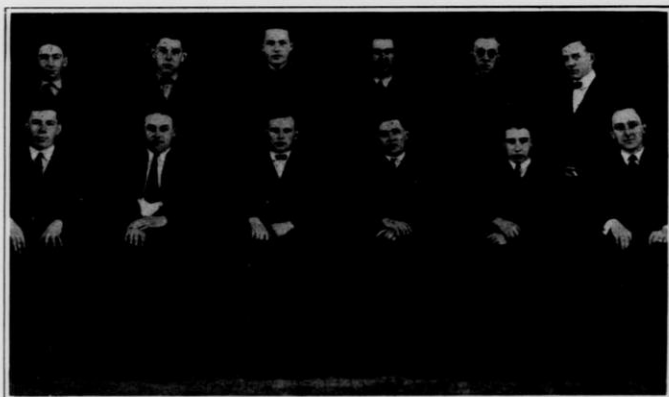
A special feature in the nature of an oratorical contest or class debate is introduced each year. Contestants from both classes enter this contest.

**The Short Course glee club and orchestra** under faculty direction, furnishes music for Farmers' Course meetings and

other meetings during the winter, as well as for the Literary Society. Be sure to bring your musical instrument if you have had some experience.

A Short Course Athletic Association is maintained which provides for team contests in basketball, indoor baseball and volley ball not only between classes but with outside or city teams. Each year a track meet is held between classes which has proven of great interest.

**Short Course Y. M. C. A.** The students have their own organization and are assisted by the university Y. M. C. A. A



*Short Course Glee Club*

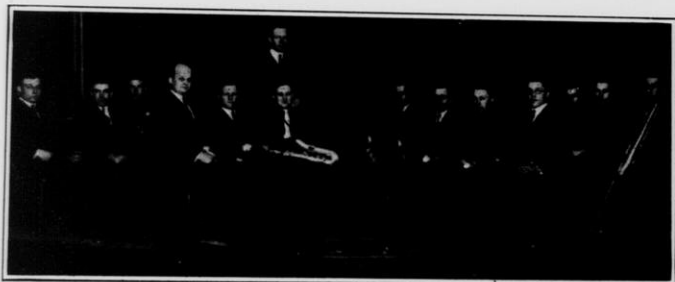
series of Sunday morning meetings for the Short Course students was held during the last winter and a number of interesting excursions were made to various points of interest in and about the city, under the charge of a Y. M. C. A. representative.

**City Organizations.** The various churches of the city have welcomed the Short Course students into their student organizations. The City Y. W. C. A. has cooperated with the director of the Short Course in providing several evenings of social activity. The Y. M. C. A. and Badger Club have welcomed the Short Course students so there are plenty of opportunities



for a wide acquaintanceship among the general university students and also among the city people.

**Agricultural College Organizations.** Practically all the college student organization meetings are open to Short Course students. The A. C. F. Board has held a welcome for the past two years, the Country Magazine, the Poultry Club, the Grafters Club, the Saddle and Sirloin, and the Ag. Triangle meetings are open to Short Course students. These give opportunities for a touch of college spirit that gives students an idea of "The Spirit of Wisconsin."



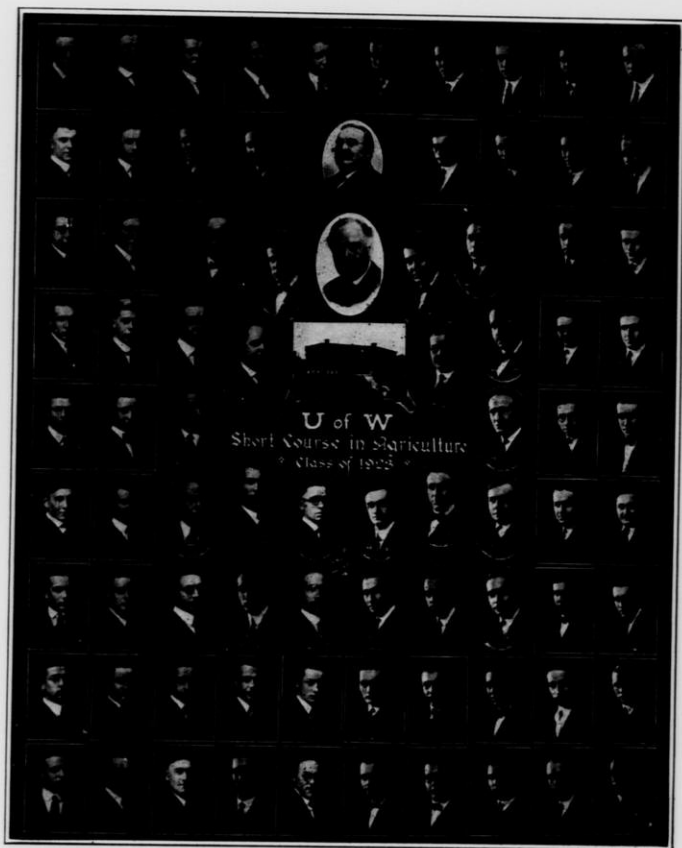
*The Short Course Orchestra*

**The Agricultural Experiment Association.** The association is an organization of former students of the College of Agriculture who are interested in introducing improved methods and practices upon their farms. 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 in growing and disseminating purebred seeds.

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 1,550. R. A. Moore is secretary of the association.

**The Little International.** The Little International put on by the Saddle and Sirloin Club is an event that shows the real



*Graduating Class and Faculty*

## SHORT COURSE SCHEDULE—FIRST YEAR

HOUR	FIRST TERM Nov. 12—Dec. 19	See Page	SECOND TERM Jan. 2—Feb. 6	See Page	THIRD TERM Feb. 7—March 14	See Page
8—10	Sect. 1. Farm Crops A Sect. 2. Soil Fertility A Sect. 3. Farm Bookkeeping A	27 37 24	Sect. 1. Soil Fertility A Sect. 2. Farm Bookkeeping A Sect. 3. Farm Crops A	37 24 27	Sect. 1. Farm Bookkeeping A Sect. 2. Farm Crops A Sect. 3. Soil Fertility A	24 27 37
10—11	The Animal in Health A	37	Poultry Raising A	34	Farm Bacteriology	23
11—12	Farm Chemistry	23	Feeds and Feeding B	28	Plant Life C	31
12—1:30			INTERMISSION			
1:30—3:30	Sect. 1. Stock Judging A Sect. 2. Farm Dairying A Sect. 3. Gas Engines A	28 30 25	Sect. 1. Farm Dairying A Sect. 2. Gas Engines A Sect. 3. Stock Judging A	30 25 28	Sect. 1. Gas Engines A Sect. 2. Stock Judging A Sect. 3. Farm Dairying	25 28 30
3:30—4:30 Tu 3:30—5:30 Th.	Sect. 2. Library Practice	32	Sect. 1. Library Practice	32	Sect. 3. Library Practice.	32
3:30 M—W	Physical Education	33	Physical Education	33	Physical Education	33
3:30 F	Parliamentary Practice	33	Parliamentary Practice	33	Parliamentary Practice	33

All subjects above are 1½ credit courses except Library, Physical Education and Parliamentary Practice which carry no credit.

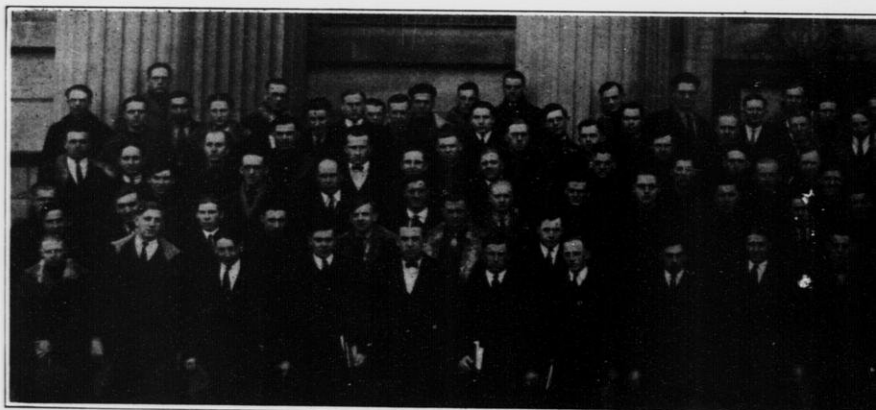
**SHORT COURSE—SECOND YEAR AND EXTENDED SCHEDULE**

HOUR	FIRST TERM Nov. 12—Dec. 19	See Page	SECOND TERM Jan. 2—Feb. 6	See Page	THIRD TERM Feb. 7—March 14	See Page
8—9	Feeds and Feeding C ×	28	Feeds and Feeding D ×	28	Farm Management ÷ E	24
9—10	Farm Economics B Diseases of Farm Animals B	24 37	Marketing C	24	Rural Institutions D	24
8—10	Farm Insects and Control A	30	Farm Mechanics and Conveniences E	26	Livestock Management G Farm Buildings F	29 26
10—12	Dairy and Swine Judging D Farm Machinery B Plant Diseases and Control	29 25 34	Sheep, Beef and Horse Judging Farm Tractors D Potatoes and Truck Crop BE	29 26 31	Cow Testing Associations H Farm Tractors D Advanced Gas Engines G	29 26 27
12—1:30			INTERMISSION			
1:30—3:30	Forage Crops (1 hr) B Poultry Judging B Fruit Growing A Land Drainage C	28 35 31 26	Marketing Poultry Products C Pure-Bred Seed Production C Bee Keeping B Cow Testing Associations H	35 28 30 29	Incubation and Brooding D Seed and Weed Control D Adv. Farm Dairying B Farm Woodlot and Grounds D	35 28 31 32
3:30—4:30	Farm Advertising ×	27	Farm Advertising × Live Stock Pedigrees F	27 29	Soil Management B	37
3:30—5:30 M.W.F.	Blacksmith or Carpentry ÷	35	Blacksmith or Carpentry ÷	35	Blacksmith or Carpentry ÷	35
4:30—5:30 T.T.*	Physical Education	33	Physical Education	33	Physical Education	33
4:30*	Parliamentary Practice	33	Parliamentary Practice	33	Parliamentary Practice	33

× Starts first term and must be elected for both terms to receive credit.

\* Required of all. No credit.

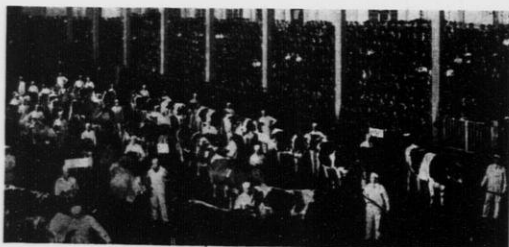
÷ 1 credit course—all other courses 1½ credits.



*The Short Course Class*

mettle of the Short Course boy. The competition is keen in the show ring and a large share of the prizes are won by the Short Course boys.

*The  
Little  
International*



### **Closing Day Exercises**

Students who complete the studies of the Short Course in a satisfactory manner will be granted Short Course certificates duly signed by the Dean of the College of Agriculture. Certificates were first granted in 1895, sixteen in number.



*Course Class of 1924*

For the last eight 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. President Elliott of Purdue University was secured a year ago.

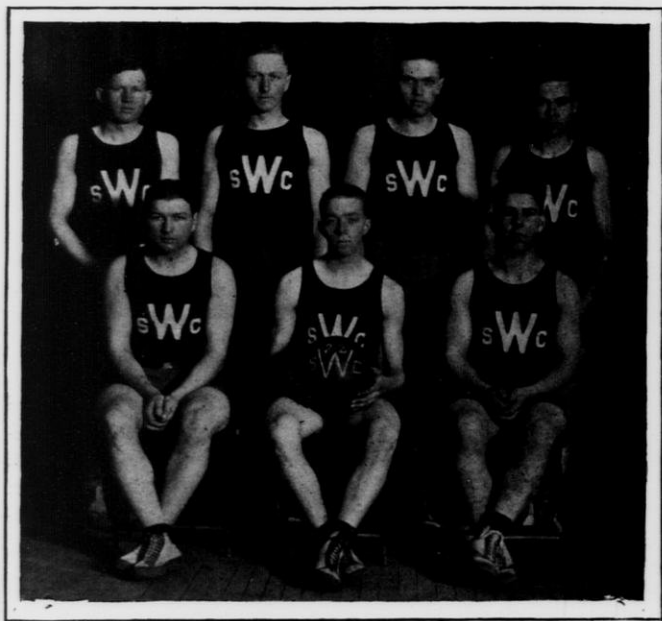
#### **SHORT COURSES AT COLLEGE OF AGRICULTURE**

**The Winter Dairy Course.** A 12 weeks' course beginning early in November is open to persons who have had at least six months' experience in a creamery or cheese factory. For circular address E. H. Farrington, Dairy Department.

**The Summer Dairy Course** is intended for beginners or those having little practical knowledge of creamery or dairy work. Students are admitted at any time during the spring and summer after March 1. For particulars address E. H. Farrington, Dairy Department.

**Tractor Courses.** Short, intensive courses, given by the department of Agricultural Engineering during January and February. Write for circular to E. R. Jones, College of Agriculture.

**The Young People's Course** is a week's course in lectures, demonstrations and exercises in subjects relating to farm life which are of interest to farm boys and girls. Those who have won scholarships in contests conducted by local fair au-



*Second Year Basket Ball Team*

thorities attend. Each day special classes for the girls in attendance will be held at the Department of Home Economics. For further information address T. L. Bewick, State Club Leader.

**The Farmers' Week** is a popular course of addresses, demonstrations and exercises, covering a period of one week, and designed to give busy farmers the most useful instruction and practice in the science of agriculture in the shortest possible time at a season when they can be away from home for a brief period. Programs may be had upon application to K. L. Hatch, Assistant Director, Agricultural Extension.

## DEPARTMENTS OF INSTRUCTION

## AGRICULTURAL BACTERIOLOGY

ASSISTANT PROFESSOR W. H. WRIGHT

**Farm Bacteriology.** This course acquaints the student with those phases of bacteriology which he should take into account in his daily life. Attention is given 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 food products. In the case of the transmissible diseases of animals, those that are of greatest importance to the livestock industry of the state are studied, as to prevention and control. The relation of bac-

*Bacteri-  
ological  
Study  
of  
Milk*



teria 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 TOTTINGHAM

**Farm Chemistry.** This course shows how the principles of chemistry operate on the farm. The subjects discussed are: 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 and the processes involved in their use of the nutrients of feeding materials.



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

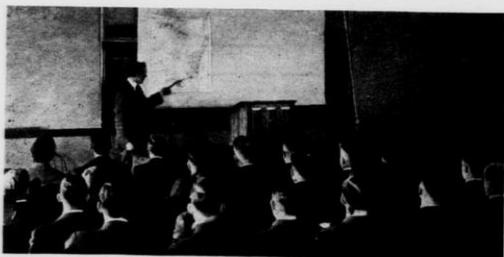
Demonstrations are presented to show the properties of common chemical elements and compounds of plants and animals, with the aim of interpreting agricultural chemistry in the language of farm practice. Mr. Tottingham.

### AGRICULTURAL ECONOMICS

PROFESSORS HIBBARD, MACKLIN, ASSOCIATE PROFESSOR MCNALL,  
ASSISTANT PROFESSOR KOLB, ASSISTANT FETROW

The work given 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 class  
in  
Agricultural  
Economics*



**A. Farm Bookkeeping.** Elementary principles of economics and the elements of bookkeeping applied to the farm. Methods of taking farm inventories and the keeping of cash accounts, and accounts with livestock, farm crops, etc. Mr. Fetrow.

**B. Farm Economics.** This will consist of lectures and discussions with which farmers are in constant contact; how prices are made, the farmers' purchasing power, farm labor, farm credit, and farm tenancy and leases. A study will be made of farmer organizations through which it is attempted

to better conditions, such as the Grange, Alliance, and Farm Bureau. Mr. Hibbard.

C. **Marketing.** Conditions and forces which determine the prices of farm products, methods of marketing, co-operative and independent types are studied, lessons to be learned by present systems. Mr. Macklin and assistant.

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. Kolb.

E. **Farm Management.** To show the student how the various farm operations may be organized and correlated so 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, the lay-out of the farm, the capital and equipment necessary for the various types of farming and the problem of farm help. Mr. McNall.

## AGRICULTURAL ENGINEERING

PROFESSOR E. R. JONES, ASSISTANT PROFESSOR DUFFEE, INSTRUCTOR FISH, ASSISTANT MEACHAM

The Department of Agricultural Engineering has unusual facilities for giving practical instruction to students. Thousands of dollars' worth of tractors, engines, machinery, tools and farm-building equipment are loaned to the department by manufacturers each year for the use of students in the lecture room and laboratory.

A special tractor course of five weeks is given during the second and third term. For information write E. R. Jones.

A. **Gas Engines.** Demonstrational lectures supplemented by laboratory work. Adjustments and operation of gas engines. Fuel consumption tests. Trouble finding and remedy. Mr. Duffee and assistants.

B. **Farm Machinery.** Construction and operation of the different types of farm implements such as plows, binders, corn planters, cultivators, etc. Mr. Duffee and assistants.

C. **Land Drainage.** Exercises both in and 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 stu-

*Practice  
in  
Drainage*



dents. Superintending the installation of farm drainage systems. Mr. Jones.

D. **Farm Tractors.** Engine and Tractor troubles. Practice with different types of tractors. Mr. Duffee and assistants.



*Gas  
Engines  
are  
Problems*

E. **Farm Mechanics and Conveniences.** A study of the conveniences of the farm home such as lighting, heating, water supply. Laboratory work will also be given such as soldering, rope tying and splicing, belt lacing, babbiting and concrete construction. Mr. Fish.

F. **Farm Buildings.** Lectures and laboratory work in the planning and arrangement of farm buildings. The lectures in-

clude a discussion of silos, concrete construction, ventilating systems. Mr. Fish and assistants.

G. **Advanced Gas Engines.** A more intensive study of gas engine principles and troubles than is given in the first year. Additional problems are considered. (Omitted in 23-24). Mr. Duffee.

## AGRICULTURAL JOURNALISM

ASSISTANT PROFESSOR SUMNER

**Farm Advertising.** Modern methods of salesmanship are needed on the progressive farm. The farm name, the farm letterhead, the classified advertisement, display and sales advertisements, sales letters, and auction posters are some of the mediums which will be studied. Mr. Sumner.

## AGRONOMY

Professors Moore, Graber, Associate Professor Leith, Assistant Professor Stone, Instructors Albertz and Holden  
Assistant Zerbel.

The work in agronomy will include studies of the culture, management, weed control, methods of improvement, rota-



*Breeding  
Wisconsin  
purebred  
grains*

tions, and best varieties of all farm crops most suitable for Wisconsin conditions.

A. **Farm Crops.** This course gives the student a thorough understanding of the best varieties of field crops for Wisconsin conditions and how best to handle them through all

phases of culture and harvest. Special emphasis is laid upon identification of varieties, both in seed and plant forms, through the application of the principles and practices of judging show samples. Mr. Leith, Mr. Albertz.

**B. Forage Crops.** A series of lectures on forage crops for Wisconsin conditions. The work covers a discussion of the best methods and practices in sowing, handling, testing, selection and improvement of all the leading forage crops. Mr. Moore, Mr. Graber.

**C. Pure-bred Seed Production.** A study of types, judging, breeding and improvement of the Wisconsin grains and corn. Mr. Moore, Mr. Leith.

**D. Seed and Weed Control.** A study of the ways and means of solving a most serious problem confronting the Wisconsin farmer. How to tell when crop seeds are of good quality and free from noxious weed seeds, and what happens when impure seeds are used. Know the noxious weeds and their seeds. Mr. Stone, Mr. Holden.

### ANIMAL HUSBANDRY

PROFESSOR HUMPREY, FULLER, MORRISON, ASSOCIATE PROFESSOR  
HULCE, ASSISTANT PROFESSOR KLEINHEINZ, INSTRUCTOR,  
FARGO, ASSISTANTS O. J. DELWICHE, MARSHALL,  
HARRIS AND CRAMER

The courses in animal husbandry given include livestock breeding, judging, pedigrees, 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. Elementary Stock Judging.** Score card practice and textbook work in the study of market classes and breeds of livestock. Mr. Humphrey, Mr. Hulce, Mr. Fuller.

**B. Feeds and Feeding.** The study of feeding stuffs, principles of feeding and rations. Mr. Fuller.

**C. Advanced Feeds and Feeding.** A continuation of the study of feeds and feeding begun the first year with special application to practical problems. This course must be continued through both semesters to secure credit for graduation. Mr. Fargo.

D. **Judging Swine and Dairy Cattle.** Mr. Fargo, Mr. Hulce.

E. **Judging Beef Cattle, Sheep and Horses.** Mr. Fuller, Mr. Kleinheinz.

F. **Livestock Pedigrees.** A study of the principles of breeding farm animals as applied to livestock. Pedigrees and their interpretations will be studied with reference to the leading families. Dairy pedigrees will be emphasized.

G. **Livestock Management.** Lectures on the management and care of dairy cattle, beef cattle, sheep, swine, and horses. Animal Husbandry staff.

H. **Cow-testing Associations.** Outlines problems of the association officers and the cow-tester. A complete set of records will be computed by each student and an attempt made to fit the students for cow-testing association work. The course is equally important to the man who is operating a farm and developing a herd. Advanced Registry standards and records will also be studied. Mr. Harris, Mr. Cramer.

### ECONOMIC ENTOMOLOGY

PROFESSOR WILSON, ASSISTANT PROFESSOR FLUKE

The importance of insect control on the farm is recognized by the farmer, but his opportunities for study are limited, and

*Students  
in  
Beekeeping  
Laboratory*



the occasional information which he picks up is usually gone from his mind before he has an opportunity to apply it.

A. **Farm Insects and Control.** A study of the more important insect pests of farm garden and orchard crops to admit of ready recognition and treatment. Principles of insect control will be studied and applied to individual insects according to the best known methods. Mr. Fluke.

B. **Beekeeping.** Practical beekeeping for those who desire to study the elementary principles of the subject. Each student will have an opportunity to familiarize himself with up-to-date methods and equipment for the handling of bees, the production of comb and extracted honey, bee diseases, their recognition and treatment. Mr. Wilson.



*Interested in Dairying*

### **FARM DAIRYING**

PROFESSOR FARRINGTON, INSTRUCTOR THOMSEN

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, condenseries, and cheese factories, and the making of butter on the farm.

A. **Farm Dairying.** The Dairy Laboratory is equipped

with the most approved apparatus for the testing of milk, the separation of cream and the manufacture of butter and other dairy products. 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. Thomsen.

B. **Advanced Farm Dairying.** A supplementary course to Dairy A. Designed for training men in the operation of milking machines, the commercial handling of milk and cream on the farm, the paying of creamery and cheese factory dividends, organizing a cooperative factory and other advanced farm dairy operations. Mr. Thomsen.

## HORTICULTURE

PROFESSORS MOORE, MILWARD; ASSOCIATE PROFESSOR AUST; ASSISTANT PROFESSOR BRANN; INSTRUCTOR NIGHTINGALE

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. **Fruit Growing.** Lectures on the selection of site, planting, soil management, pruning, spraying, varieties, and other

*Spraying  
an  
Orchard*



orchard problems with special reference to the farm fruit plantation. Mr. Moore.

B. **Potato and Truck Crops.** Wisconsin varieties of potatoes and proper methods of culture. The seed business, certification and identification. Mr. Milward, Mr. Brann.

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. Nightingale.

**D. Farm Woodlot and Grounds.** The work given is designed to show the relation of forestry to agriculture. The care of the woodlot, windbreaks, shelter belts, tree planting, selections of species for planting, and methods of propagation, planting and protection. Mr. Aust.



*Studying in the Library*

## **LIBRARY**

ASSISTANT PROFESSOR HEAN

**Library Practice.** To teach students to use books, papers, and bulletins as tools. The classification and other library methods, of the literature of agriculture, including books and serial publications. The lectures will be supplemented by practical work in the library. 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 and state bulletins and reports, how these may be filed so as to be a ready and valuable reference for the busy farmer. Mr. Hean.

### PARLIAMENTARY PRACTICE

ASSOCIATE PROFESSOR BEWICK

**Parliamentary Practice.** A working knowledge of the rudiments of parliamentary practice is of inestimable value to every young man. This course gives practice in the organization and handling of public meetings, farmers' clubs, public speaking and debating.

First Year—Principles of parliamentary practice and debating. Mr. Bewick.

Second Year—Review parliamentary practice. Organization of farmers' clubs, public speaking. Time to be arranged. Mr. Bewick.

### PHYSICAL EDUCATION

PROFESSOR LOWMAN AND ASSISTANTS

All Short Course students will be given a thorough physical and medical examination, and will be required to take two one-hour periods a week of development 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 gymnastics and athletic apparatus, lockers and shower baths. The course is closed by an indoor track meet, with track contests between teams representing the first and second year classes.

### PLANT PATHOLOGY

ASSOCIATE PROFESSOR VAUGHAN

The limiting of the yield of all farm crops by disease is a present day problem of the farmer. Their control becomes more important as our lands are farmed more intensely.

**Plant Diseases and Control.** The symptoms of the common and more important plant diseases of Wisconsin crops that one may recognize them on sight. Attention will be given to the diseases of field crops, grains, fruits, potatoes, and other horticultural crops. Control measures and their application will be emphasized.

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. Mr. Vaughan.

### POULTRY HUSBANDRY

PROFESSOR HALPIN; ASSISTANT PROFESSOR REID; 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 varie-



*Incubation  
Room  
at  
Poultry  
Building*

ties of chickens, five of geese, and three of ducks, furnish ample material for poultry judging. These will be used to help the student to become familiar with general poultry raising. Several years of careful trapnesting and pedigree hatching have developed strains of heavy laying chickens that will be used. 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. Reid.

**B. Poultry Judging.** The judging of poultry for exhibition and culling for egg production. Mr. Halpin, Mr. Johnson.

**C. Demonstration and laboratory work** in feeding for egg production, packing and marketing eggs, killing and dressing market poultry, caponizing and house construction. Mr. Reid, Mr. Johnson.

**D. Incubation and Brooding** and a study of some of the common diseases of poultry. Mr. Reid.

*Part of  
Poultry  
Plant*



## WORKSHOP DEPARTMENTS

SUPERINTENDENT DABNEY: INSTRUCTORS SCHUMANN, MALONE,  
SULLIVAN

**A. Elementary Carpentry.** Instruction is given in the use of wood working tools, how to sharpen chisels, saws and planes and keep them in order. A choice is allowed of several articles that would be of use around the house or farm, but the articles chosen must involve the use of all tools and principles to be covered by the course. The list includes a mitre box, saw horse, feed trough, stool, stepladder, tool tray, hammer handle, or singletree. Several types of joints are made, and elementary instruction in the use of the steel square is given. Mr. Sullivan.

**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 applications 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. Malone.

**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, silos and framing for concrete construction are among the subjects that may be selected. Special cabinet or cedar chest work may also be carried on if desired. Advanced instruction in the use of the steel square as applied to the cutting of rafters and other complex framing. Mr. Sullivan.

**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. Malone.

### SOILS

ASSISTANT PROFESSORS RICHARDS, STEWART; INSTRUCTOR ALBERT

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



*Soils  
Class  
at  
Work*

**A. Soil Fertility.** The soil and its relation to crop production is considered. The 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. Stewart, Mr. Albert.

**B. Soil Management.** Lectures on the management of special soil, crop rotation in relation to farm management, systems of farming in relation to soil fertility, determining the needs of soils, profitable crop production, and soil erosion. Mr. Richards.

### VETERINARY SCIENCE

PROFESSOR ALEXANDER

**A. The Animal in Health.** The principles of anatomy and physiology are taught so students become acquainted with the normal structure and functions of the animal body. Mr. Alexander.

**B. The Animal in Disease.** The causes, symptoms, and methods of preventing the common diseases of animals. Practical demonstration are given, to enable students to recognize diseases and unsoundness and give first aid treatment. Mr. Alexander.



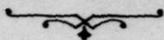
*Sports on Ice*

*Ice boating, skating and other winter amusements are popular.*

## COMPLETE LIST OF SHORT COURSE STUDENTS 1922-23

Year	Name	Home Address	Year	Name	Home Address
1	Aarness, Carl	Cashton	2	Espeseth, Espen	Eagle River
2	Abramson, Joel E.	Sawyer	1	Friday, Edward	Madison
1	Ahler, Bernard	Burlington	1	Fried, Melvin O.	Fountain City
2	Albrecht, Glenn A.	Ohio, Ill.	1	Gilbertson, Harney	Black River Falls
1	Anderson, Henry C.	Monroe	2	Gere, Joseph	Beloit
2	Anderson, Leonard A.	Cambridge	2	Goss, Horace L.	Naperville, Ill.
1	Anderson, Waldemar C.	Madison	1	Gutowski, Leon A.	Milwaukee
2	Askov, Milo Oliver	Luck	1	Hagen, Adolph O.	Cumberland
1	Backhaus, Lorenz H	Guttenberg	2	Halladay, Irving J.	Salem
1	Bass, Mrs. George	Fish Creek	1	Hansen, Edward	Ringle
1	Bauman, Albert	Gleason	1	Hansen, Otto	Janesville
2	Bauman, Joseph A.	Marathon	2	Hansen, Willard	Florence
2	Belda, Edmund E.	De Forest	1	Harford, Willard C.	Mineral Point
1	Bell, R. Leonard	Norwalk, Ohio	1	Hathaway, John A.	Madison
1	Bellingier, John G.	Fond du Lac	2	Heineck, Warren L.	Melrose
1	Benson, Theodore	Cambridge	2	Heintz, Anton	Sun Prairie
1	Berg, Oscar L.	Independence	1	Helz, Philip	Richfield
2	Bille, Henry	Waupaca	2	Heitz, Ralph	Monroe
2	Blaney, W. Edwin	Madison	1	Hetzel Albert	Plain
1	Bohl, Bernard	Beaver Dam	1	Hill Guy E.	Chili
1	Borge, Carl	Iola	1	Hill, Ralyn M.	Oregon
1	Borst Wm. J.	Brooklyn	1	Holzman, Otto	N. Freedom
1	Brancel, Elmer	Minong	1	Howard, Russell S.	Mondovi
1	Braun, Frances J.	Edeu	2	Humphrey, Neil	Northfield
2	Brenholdt, Palmer	Cushing	1	Irons, William	Poynette
2	Breyfogle, Charles P	West Pullman, Ill.	2	Irwin, Harold	Pt. Washington
1	Bruecker, George	Dundas	2	Jachmann, Herman	Sturgeon Bay
2	Brown, Ray G.	Eau Claire	1	Jasperson, Wallace	Viroqua
1	Buck, Elwin B.	Lancaster	2	Jessen, Carl E Jr.	Withee
2	Burcalow, Harry	Monroe	2	Johnson, Carl M.	DeKalb
1	Burr, Harold	Geneva, Ill.	1	Johnson, Erwin E.	Denmark
1	Cahoon, Wilber Doris	Baraboo	1	Johnson, Howard A.	Juneau
1	Campbell, Charles A.	Eau Claire	1	Johnson, Oscar C.	Mondovi
1	Campbell, Will	Barneveld	1	Jones, Thomas	Dodgeville
1	Carlson, La Vern	Sycamore	2	Jorgensen, Melvin C.	Poy Sippi
1	Carlson, Paul	Sycamore	2	Jungbluth, Frederic	Madison
1	Carlson, Raymond	Neenah	1	Kieckhafer, Carl W.	Weyauwega
2	Claridge, Albert	Reedsburg	1	Koehne, Henry John	Little Suamico
1	Clark, John M.	Rewey	1	Koester, Forest R.	Hartland
1	Clawson, Don G.	Harvard, Ill.	1	Kolstad, Clarence	Mondovi
1	Cocke, William	Cartersville	2	Korbel, Harry	Wauwatosa
2	Crosby, Ralph E.	Exeland	1	Korn, Roscoe F.	Janesville
1	Cusack John	Elkhorn	1	Krall, Ralph	Antigo
1	Daniel, David John	Cambria	2	Kraus, Alois J.	Two Rivers
2	Davis Henry I.	Poy Sippi	2	Lambie, Stuart	Appleton
2	Doherty Theodore E	Lancaster	1	Larsen, Ellsworth	Denmark
2	Earll, Harold O.	Medina	1	Lee, P. A. G.	Deerfield
2	Emmerich, Edwin L.	Bradley	2	Lehmann, Otto	Watertown
2	Engleman, Clarence	Hixton	1	Lettner, Herbert	Fountain City
1	Erickson, Edmund	Madison	1	Lintner, Harold H.	Arlington
1	Faulkenstein, Wallace	Lodi	2	Logerquist, Arnold	Baileys Harbor
1	Faust, Peter C.	Westboro	2	Lorfeld, Arthur W.	Cleveland
2	Fenedael, Theophile	Luxembourg	1	Love, Stuart D.	Winnebago, Ill.
1	Fonk, Clarence P.	Union Grove			
1	Foster, Paul	Union Grove			
1	Frelch, Adolph	Maribel			

POST CARD



**DIRECTOR OF SHORT COURSE**

**College of Agriculture**

**Madison**

**Wisconsin**



## SHORT COURSE IN AGRICULTURE

### Application for Admission

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

I hereby apply for admission to the Short Course in Agriculture for the term beginning November 14, 1923. I have had.....years experience on a farm.

Should I change my address before November 13, 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..... State.....

Rural Route No.....or Street and No.....

Home County .....

Dated .....

- 1 McCrea, Philip H....Delavan, Ill.  
 1 McMahan, Gilman.....Portage  
 1 McVicar, Keith.....Salem
- 1 Mayer, Edwin C.....Richfield  
 2 Melhtretter, Louis.....Oconto  
 1 Meier, Ed. William.....Verona  
 2 Mell, John.....De Forest  
 1 Menne, Arthur....Elkhart Lake  
 1 Merrill, Llewellyn.....Milwaukee  
 1 Meserve, Fred A  
 .....Grand Junction, Colo  
 1 Mielke, William F.....Waupun  
 1 Miller, Clarence.....Sun Prairie  
 1 Miller, Floyd R....Paw Paw, Ill.  
 1 Miller, Ora J.....Lone Rock  
 2 Milton, Benjamin....Chicago, Ill.  
 2 Moore, Robert.....Cazenovia  
 1 Murray, Frank P....Chicago, Ill.
- 2 Nelson, Edwin G.....Oregon  
 2 Nieman, Arnold F....Cedarburg  
 1 Nieman, Roland.....Cedarburg
- 1 O'Keson, Emil B.....Madison  
 2 Olson, Clarence E....Alberville  
 1 Olson, Elvin.....Arkdale  
 1 Olson, Ralph E.....Sparta  
 1 Opsahl, Richard.....Cashton
- 1 Parfrey, Mrs. A. C  
 .....Richland Center  
 1 Pauli, Edwin.....New Glarus  
 1 Peterson, Raymond  
 .....Black River Falls  
 1 Peterson, W. J....New London  
 2 Philibeck, John....Sturgeon Bay  
 1 Pierce, Ellwood....Stockton, Ill.  
 1 Prest, Bob S.....Granton  
 1 Prest, George V.....Granton
- 1 Quinn, Vale M.....Waukesha
- 2 Rhiner, Alton.....Riley  
 1 Rhiner, John.....Riley  
 2 Rich, John.....Prairie du Sac  
 2 Roberts, Warren H....Lancaster  
 2 Robertson, Arnold....Stoughton  
 1 Roffers, Antone H....Ashland  
 1 Rosenkrans, Forest..Paw Paw, Ill.  
 1 Rosenkrans, Harley  
 .....Paw Paw, Ill.
- 1 Runde, Francis H.....Cuba City  
 2 Russell, Floyd K.....Cambria
- 2 Salm, Hugo W.....Neenah  
 1 Schillinger, Paul E..Naperville, Ill  
 1 Schink, Raymond.....De Pere  
 1 Schmaling, Arthur.....Appleton  
 1 Schmidt, Arnold W.....Clyman  
 1 Schmidt, C Tessa....Chicago, Ill.  
 2 Schmit, Raymond C....Greenville  
 1 Segebrecht, Roy H...Mazomanie  
 1 Shadewald, Archie.....Gotham  
 1 Shirk, LeRoy.....Gotham  
 1 Sieber, Carl J.....Livingston  
 1 Simmons, Walter G..Chicago, Ill.  
 1 Smith, Arthur J Winnebago, Ill.  
 2 Snyder, John.....Pensaukee  
 2 Spaulding Willard....Hancock  
 1 Stanley, Merrill E....Greenwood  
 1 Strommen Norman....Cambridge  
 2 Strutt, Clifford.....Ridgeway  
 1 Stuhlman, Paul R....Waukesha
- 1 Trankle, William....Livingston  
 1 Triplett, Ralph W....Watertown  
 1 Trost, John F.....Stockton, Ill.
- 2 Verkuilen, Walter.....Thorp  
 1 Vial, Gordon.....LaGrange, Ill  
 1 Vial, Paul E.....LaGrange, Ill  
 1 Voegeli, Arthur..Chippewa Falls  
 1 Vornholt, Mark W.....Madison
- 2 Waste, George P.....Mondovi  
 1 Weiner, Raymond F....Columbus  
 1 Westphal, Clarence....Columbus  
 2 Wheeler, Wilfred..Concord, Mass.  
 1 White, Byron T.....Harshaw  
 1 White, Martin.....Neillsville  
 1 Wilcox, Homer.....Chili  
 1 Winters, Frank M  
 .....Independence, Kan.  
 1 Wolf, Cecil.....West Salem  
 1 Wood, Walter W.....Oshkosh  
 2 Wrolstad, Jerome O..Northland  
 1 Wulf, Carl H.....Shennington
- 1 Yderstad, Elias.....Mason
- 1 Zenz, Gerald.....Lancaster  
 1 Zenz, Leo.....Lancaster

