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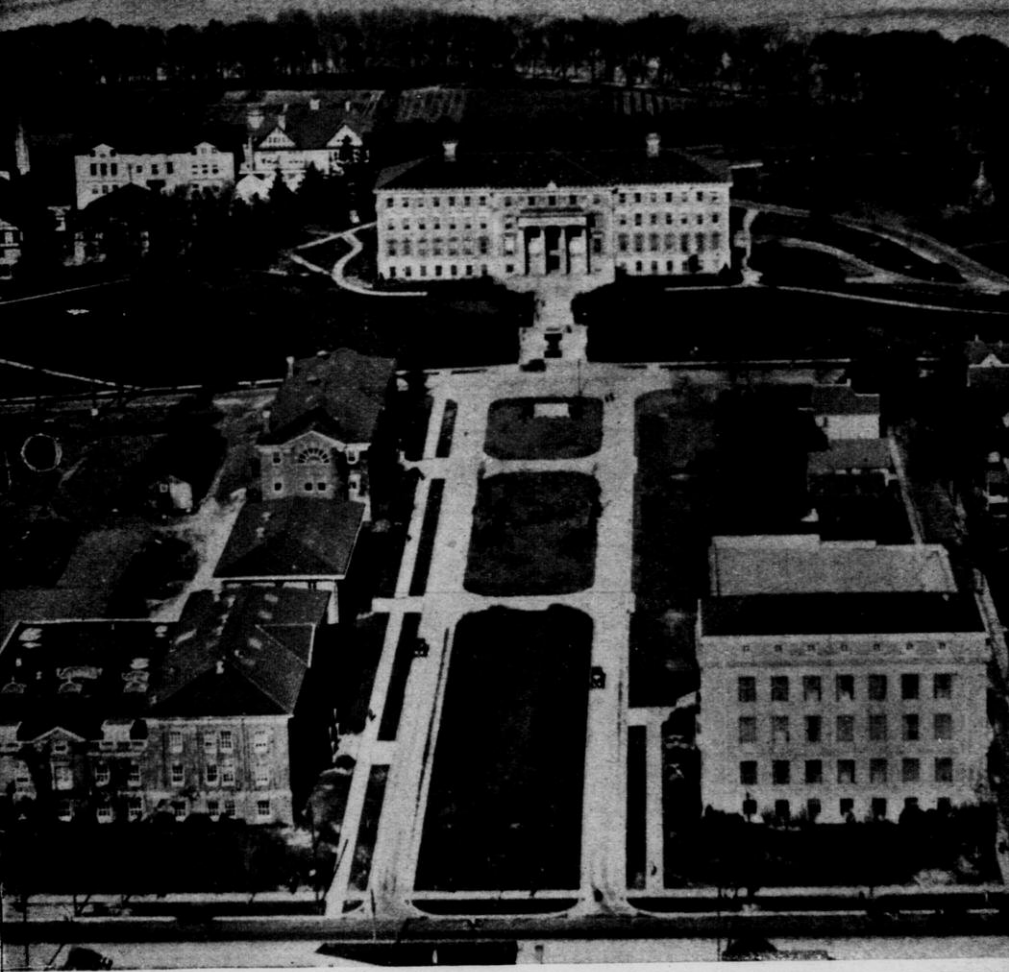
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A WINTER COURSE FOR FARM BOYS
SHORT COURSE CATALOG 1925-1926

COLLEGE OF AGRICULTURE, THE UNIVERSITY OF WISCONSIN

Serial No. 1,329—Bulletin of the University of Wisconsin—General Series No. 1,105

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Short Course Calendar 1925-1926

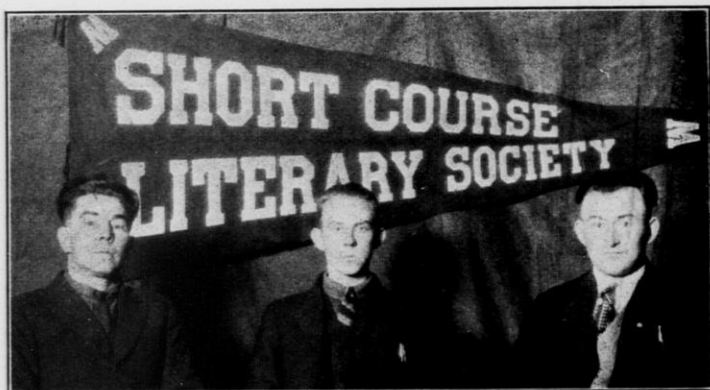
1925

Registration day	Mon.	Nov.	16
Recitations begin	Tues.	Nov.	17
Thanksgiving—legal holiday	Thurs.	Nov.	26
Make-up examinations	Sat.	Dec.	12
Christmas recess begins	Fri. Noon	Dec.	18

1926

Registration of new students	Mon.	Jan.	4
Recitations of second term begin	Tues.	Jan.	5
Second term closes	Tues.	Feb.	9
Third term begins	Wed.	Feb.	10
Livestock trip—required of second-year students	To be arranged		
Washington's Birthday—legal holiday	Mon.	Feb.	22
Make-up examinations	Sat.	Mar.	13
Third term closes	Wed.	Mar.	17
Closing Day exercises	Wed.	Mar.	17

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



First Year Debaters

Willis Wetmore Marek

The Short Course in Agriculture

THE 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 tech-



*The
Dairy
Barn
Group*

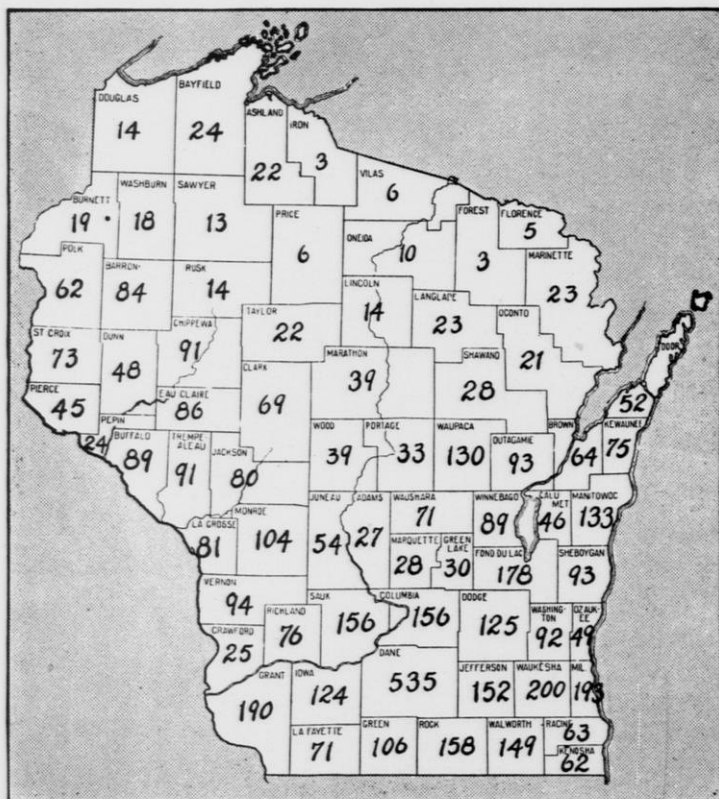
nical knowledge, a broadened vision of agriculture, and an inspiration for the future. They are boosters for the course at all times.

Since it was established 6,675 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 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.

Equipment. 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.

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 accom-



Short Course Men Come From Every County in the State

plishing this purpose is definitely proven in the fact that probably 95 per cent of its graduates return to the farm. This alone would justify the high esteem in which the course is held throughout the state but there are many more valuable and far reaching results to be obtained by taking a course of this kind 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.

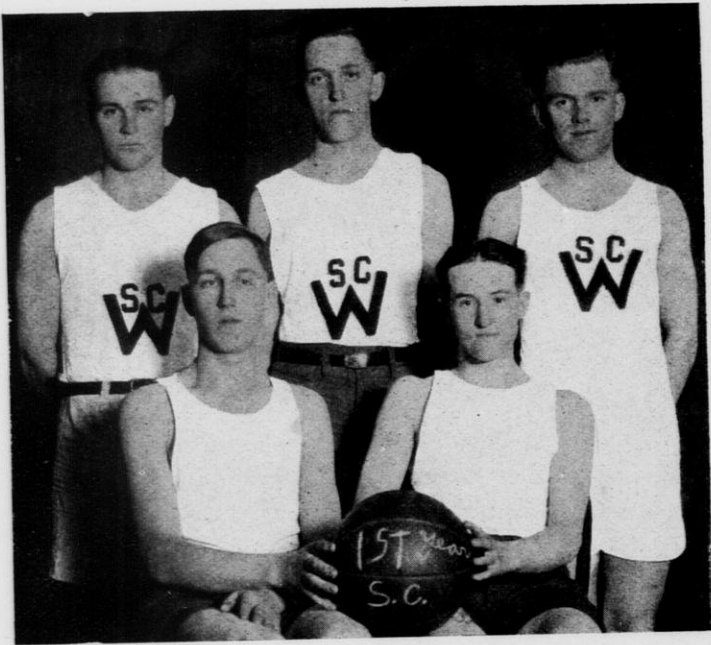
(5) **To enable you to meet young men with agricultural interests from various sections of the state** and to form acquaintances which will last through life, and to meet and listen to lectures by men prominent in the agricultural world.



*The
Dairy
Building*

(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.



First Year Basketball Team

(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.

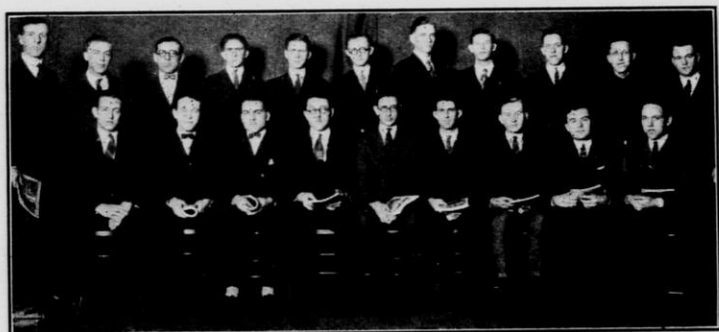
Most of the young men who take the short course realize that it offers them the supreme opportunity of their lives and they are taking advantage of that opportunity, as have those who have graduated before them, to become the seedsmen, the breeders of better livestock, and above all, the home-builders 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 good. These positions pay experienced men from \$50 to \$100 a month with board.



Short Course Glee Club

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.

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.

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.

*The
Horticultura
Building*

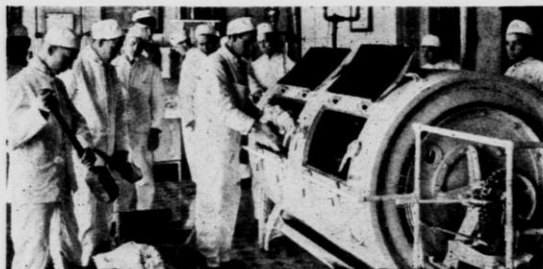


The subjects of the first year schedule are required for all without high school training, but the work of the second year and extended schedule is entirely elective. This provides that the persons in the second year and extended schedule may select their own branches of study subject to rules of the Short Course Committee as given below. A Short Course Diploma is granted upon the completion of two years' work equivalent to 32 credits. Preliminary training as explained under "Requirements for Admission" may shorten this period. Parliamentary practice and physical education are required for the first two years of work. Literary instruction is required in the first year schedule.

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.

This 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.



*Buttermaking
at
Dairy
School*

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 rations 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 Saturday afternoon.

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 Short Course with the privilege of selecting work from either the first or second year schedule. Credit toward a Short Course certificate will be granted for work completed in agriculture or other branches of the Short Course in secondary schools or colleges if the work is of similar grade and quality. Thirty-two credits are required for graduation but this may be reduced by credit for work done in high school or college subject to approval of the credits by the Short Course Committee. At least 16 credits of Short Course work must be completed at Madison before a certificate is granted.

Graduates of county schools of agriculture, county agricultural short courses of recognized standing, and persons from high schools who may present two or more years of agricultural instruction may enter the second year of the Short Course and receive a certificate upon the completion of 16 credits (three terms) of work. Such person shall present credits and make schedules of courses for the three terms, at the time of registration.

A record of work from the school for which credit is to be requested together with subjects, semesters taken, standings and certificate of graduation or attendance signed by the high school principal should be sent to T. L. Bewick, Director of the Short Course, a month before you wish to enter so there will be time to pass on records and plan schedules before registration day. Do not delay in having records sent to Madison.

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.

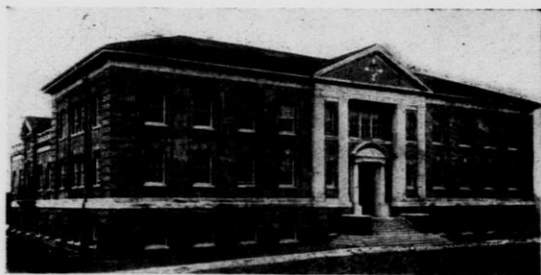
Make-up examinations shall be held on the last Saturday afternoon of the term.

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

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 in classes between 8 and 4:30 except during noon intermissions 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.



*Agricultural
Chemistry
Building*

The minimum amount of work during any one term is $4\frac{1}{2}$ credits and the maximum is 6 credits exclusive of physical education and parliamentary practice, unless an average standing of 85 has been obtained the preceding term.

Students must take the examinations in all courses whether or not needed for graduation.

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

In special cases where students of the Short Course 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.

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 1923-24:

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		For Residents of Wisconsin	Not Residents of Wisconsin
Total fees for 15 weeks for those entering the FIRST TERM*	Tuition		51.67
	Incidental	\$10.00	10.00
	Infirmary	2.50	2.50
	Laboratory Fee	7.50	7.50
	Laboratory deposit.....	2.00	2.00
	Gymnasium fee	1.50	1.50
		\$23.50	\$75.17
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	5.00	5.00
	Laboratory deposit	2.00	2.00
	Gymnasium fee	1.00	1.00
		\$16.67	\$51.12
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	2.50	2.50
	Laboratory deposit	2.00	2.00
	Gymnasium fee50	.50
		\$9.34	\$26.56

*Courses in blacksmithing or carpentry given in the College of Engineering carry additional fees of \$3 per term. Short course students may take these courses the second year if they wish.

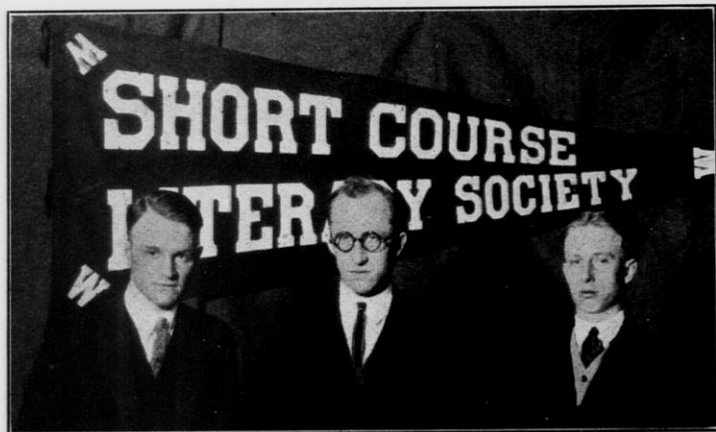
Students who pay for the entire course, but who drop out at the end of the first or second term, are refunded two-thirds or one-third, respectively, of the entire fee. Students must notify the Director of the Short Course on the day of withdrawal in order to secure refund.

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



Second Year Debaters
Holt Dana Lundt

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--X-ray service, 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 Wednesday 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.



Short Course Orchestra

The Short Course Glee Club and Orchestra under faculty direction, furnishes music for Farmers' Course meetings and other meetings during the winter, as well for the Literary Society. Be sure to bring your musical instrument if you have had some experience.



Short Course "Y" Officers

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 series of Sunday morning meetings and Bible study groups for the Short Course students are held during the winter. Students of this organization will meet new students if requested. Write T. L. Bewick at least a week before arrival stating time of arrival.

City Organizations. The various churches of the city have welcomed the Short Course students into their student organizations. The City Y. M. 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 Short Course welcome, 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 Agricultural Experiment Association. The association is an organization of former students of the College of Agriculture and others who are interested in introducing improved methods and practice upon their farms. 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. R. A. Moore is secretary of the association.

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

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 President of the University and Dean of the College of Agriculture.

For the last ten 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.

SHORT COURSES AT COLLEGE OF AGRICULTURE

The Winter Dairy Course. A 12 weeks' course beginning early in November is open to persons who have 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. Five or ten weeks during the Short Course. Write F. W. Duffee for information, Agricultural Engineering Department.

Herdsmen's Courses. For information write G. C. Humphrey Animal Husbandry Department.

Nursery Salesman's Course. For information write J. G. Moore, Horticultural Department.

DEPARTMENTS OF INSTRUCTION

AGRICULTURAL BACTERIOLOGY

ASSOCIATE PROFESSOR W. H. WRIGHT

Farm Bacteriology. This course familiarizes the student with the nature of bacteria, how they grow and reproduce and the methods of artificial cultivation in the laboratory, the relation of bacteria to the soil, the changes in the composition of the soil caused by nitrification, nitrogen fixation and inocu-



*The Short Course
of 1924-25*

lation of legumes. The relation of bacteria to farm water supply and sewage disposal is discussed.

The relation of bacteria to milk and its products is considered from a point of view of practical milk production and the quality of butter and cheese. The preservation of other foods is also discussed. Transmissible diseases of animals of the greatest importance to the livestock industry of the state are studied from the standpoint of prevention and control.

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; the composition and conservation of farm

Short Course Schedule—First Year

HOUR	FIRST TERM Nov. 17—Dec. 20	See Page	SECOND TERM Jan. 5—Feb. 7	See Page	THIRD TERM Feb. 9—March 14	See Page
8—10	Sect. 1. Farm Crops A	25	Sect. 1. Soil Fertility A	33	Sect. 1. Farm Bookkeeping A	22
	Sect. 2. Soil Fertility A	33	Sect. 2. Farm Bookkeeping A	22	Sect. 2. Farm Crops A	25
	Sect. 3. Farm Bookkeeping A	22	Sect. 3. Farm Crops A	25	Sect. 3. Soil Fertility	33
10—11	The Animal in Health A	34	Poultry Raising A	32	Farm Bacteriology	21
11—12	Farm Chemistry	22	Feeds and Feeding B	26	Fruit Growing A	29
12—1:30			INTERMISSION			
1:30—3:30	Sect. 1. Stock Judging A	26	Sect. 1. Farm Dairying A	28	Sect. 1. Gas Engines A	24
	Sect. 2. Farm Dairying A	28	Sect. 2. Gas Engines A	24	Sect. 2. Stock Judging	26
	Sect. 3. Gas Engines A	24	Sect. 3. Stock Judging A	26	Sect. 3. Farm Dairying	28
3:30—4:30 Tu	Sect. 2. Library Practice	30	Sect. 1. Library Practice	30	Sect. 3. Library Practice	30
3:30—5:30 Th.						
3:30 M.W.	Physical Education	31	Physical Education	31	Physical Education	31
3:30 F	Parliamentary Practice	30	Parliamentary Practice	30	Parliamentary Practice	33

All subjects above are $1\frac{1}{2}$ credit courses except Library Practice which is a 1 credit, Physical Education and Parliamentary Practice carry no credit.

Short Course Schedule—Second Year

	FIRST TERM Nov. 17—Dec. 20	See Page	SECOND TERM Jan. 5—Feb. 7	See Page	THIRD TERM Feb. 9—March 14	See Page
8—9	Feeds and Feeding C	26	Feeds and Feeding C ×	26	Farm Management E	23
9—10	Farm Economics B	22	Rural Institutions D	23	Marketing C	23
	Disease of Farm Animals B	34				
8—10	Farm Insects and Control A	28	Farm Mechanics & Convenience E	24	Farm Buildings F	27
					Swine Judging & Management G	25
10—12	Dairy Cattle Judging and Management D		Sheep and Beef Judging and Management E		Cow Testing Associations H	27
	Farm Machinery B	24	Farm Tractors D †	24	Farm Tractors D †	24
	Plant Disease and Control	31	Potatoes C	29	Advanced Gas Engines G	25
12—1:30			INTERMISSION			
1:30—3:30	Forage Crops (1 hr) B	26	Marketing Poultry Products C	32	Incubation and Brooding D	32
	Poultry Judging B	32	Pure-Bred Seed Production C	26	Seed and Weed Control D	26
	Horticultural Practice B	29	Bee Keeping B	28	Adv. Farm Dairying B	28
	Land Drainage C	24	Cow Testing Associations H	27	Farm Woodlot and Grounds D	29
3:30—4:30	Farm Advertising	25	Farm Advertising ×	25	Soil Management B	34
			Live Stock Pedigrees F	27		
3:30—5:30 M.W.F.	Blacksmith or Carpentry ÷ Horse Judging & Management I ÷	33	Blacksmith or Carpentry ÷	33	Blacksmith of Carpentry ÷	33
4:30—5:30 T.T*	Physical Education	31	Physical Education	31	Physical Education	31
4:30*	Parliamentary Practice	30	Parliamentary Practice	30	Parliamentary Practice	30

× Starts first term and cannot be elected unless first term was completed.

* Required of all. No credit.

÷ 1 credit course—all other course 1½ credits.—Students electing Blacksmith or Carpentry course must pay \$3 extra for five weeks.

Agricultural Engineering A—Gas engines or its equivalent must precede this course.

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

PROFESSOR HIBBARD; ASSOCIATE PROFESSORS KOLB, MCNALL; INSTRUCTOR SCHAARS; ASSISTANTS ALLIN, WILEDEN

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

B. **Farm Economics.** This will consist of lectures and discussions with which the 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 attempted to better conditions, such as the Grange, Alliance, and Farm Bureau. Mr. Hibbard and assistant.

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

D. **Rural Life.** The country life movement with special reference to methods of improving the conditions of life in the farm home and in the farmer's community. Mr. Kolb and assistant.

*A Class
in
Agricultural
Economics*



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 KOONTZ

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 or ten weeks is given during the second and third terms or either of these terms. Special students registered in advance by the department may enter as regular Short Course students but take all their work in Agricultural Engineering or allied subjects. For information write F. W. Duffee.

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 Mr. Koontz.

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

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 for topographic maps of typical areas and from sketches of particular areas furnished by students. Superintending the installation of farm drainage systems. Mr. Jones.

D. **Farm Tractors.** Engine and tractor troubles. Practice with different types of tractors. Course A, Gas Engines, must precede or accompany this course. Mr. Duffee and Mr. Koontz.



*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 include a discussion of silos, concrete construction, ventilating systems. Mr. Fish.

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 24-25.) Mr. Duffee.

AGRICULTURAL JOURNALISM

ASSOCIATE PROFESSOR SUMNER

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

AGRONOMY

PROFESSORS MOORE, GRABER; ASSOCIATE PROFESSORS LEITH, WRIGHT; ASSISTANT PROFESSOR STONE; INSTRUCTOR HOLDEN; ASSISTANT ZERBEL

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



*Breeding
Wisconsin
Purebred
Grains*

of culture and harvest. Special emphasis is laid upon identification of varieties, both in seed and plant forms. Mr. Wright.

B. **Forage Crops.** A discussion of the best methods and practices in sowing, handling, and improving hay and grain crops for forage. 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.** Lecture and laboratory work, including a study of the identification and methods of eradication of weeds, the identification of crop and weed seeds, together with the relation of clean seeds and clean fields to best practices in crop culture. Mr. Stone, Mr. Holden.

ANIMAL HUSBANDRY

PROFESSORS HUMPHREY, FULLER; ASSISTANT PROFESSORS KLEINHEINZ AND FARGO; INSTRUCTOR RUPEL; ASSISTANTS O. J. DELWICHE, WERNER, 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. Fuller.

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

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



*Students
Studying
Farm
Insects*

D. **Dairy Cattle Judging and Management.** Mr. Humphrey.

E. **Beef Cattle and Sheep Judging and Management.** 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. Mr. Humphrey.

G. **Swine Judging and Management.** Mr. Fargo.

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.

I. **Horse Judging and Management.** Mr. Fuller.

FARM DAIRYING

PROFESSOR FARRINGTON; INSTRUCTOR THOMSEN; ASSISTANT
MOHR

In farm dairying, students receive instruction in the general principles which are involved in the production, testing, and handling of milk and cream at farms 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, milk coolers, and other appliances of the dairy. Mr. Mohr.

B. **Advanced Farm Dairying.** A supplementary course to Dairy A. Designed for training men in the care 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.

ECONOMIC ENTOMOLOGY

PROFESSOR WILSON; ASSISTANT PROFESSOR FLUKE; INSTRUCTOR
MILUM

The importance of insect control on the farm is 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. **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. Milum.

HORTICULTURE

PROFESSORS MOORE, MILWARD; ASSOCIATE PROFESSOR AUST; AS-
SISTANT 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 the successful culture of horticultural plants.



*Spraying an
Orchard*

A. Fundamentals of Plant Life and Their Relation to Fruit Growing. Structure of plants, their life processes and reproduction. The application of these principles to fruit growing practices and their relation to selection of site, planting, soil management, pruning, spraying and other farm orchard problems. Mr. Nightingale.

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, pruning, fruit identification and judging, tree planting, hotbed construction, propagation of fruit plants and small fruit culture. Mr. Moore.

C. Potatoes. Management of potato soils, planting problems, disease and insect control. The seed potato business and seed certification. Standard Wisconsin varieties identification and judging. Mr. Milward, Mr. Brann.

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. Methods of improving home grounds. Mr. Aust.

LIBRARY

ASSISTANT PROFESSOR HEAN

Library practice. To teach students to use books, papers, and bulletins as tools. Lectures on classification and other library methods and on 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 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.



Studying in the Library

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 intensively.

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; INSTRUCTOR C. LAMPMAN; ASSISTANT O. N. JOHNSON

The Poultry Department is equipped with poultry buildings, colony houses, a complete line of incubators, brooders, and other poultry apparatus, such as cramming machines and bone cutters. In addition, some twenty varieties of chickens, two 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.** 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. Lampman.



*Incubation
Room
at
Poultry
Building*

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. Lampman, Mr. Johnson.

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

WORKSHOP DEPARTMENTS

ASSISTANT PROFESSOR DORRAN: (Superintendent of Shops) IN-
STRUCTORS SCHUMANN, PETERS, BAKER

A. **Elementary Carpentry.** Instruction given in the use of wood working tools, to sharpen chisels, saws and planes and keep them in order. A choice is allowed of several problems that will be of use around the house or farm. 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. Baker.

B. **Elementary Forging.** Instruction in the essential operations of forging, such as drawing out, upsetting, pointing, bending and welding is given. Problems such as bolts, chain links,

rings, clevises of various forms, cold chisels, metal and stone drills are given. 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, the making of models of houses, barns, and portable pens, silos, and framing for concrete construction. Merits of painting, staining and varnishing studied. Mr. Baker.

D. **Advanced Forge Work.** A continuation of first year work including more advanced practice. Mr. Schumann and Mr. Peters.

SOILS

ASSISTANT PROFESSORS RICHARDS, STEWART

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

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; rela-



Sports on Ice

Ice boating, skating and other winter amusements are popular

tion of manure and commercial fertilizers to crop yields and soil improvement. Mr. Stewart.

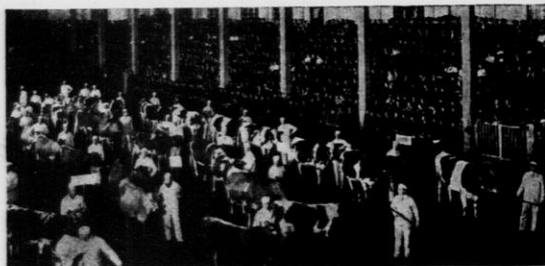
B. **Soil Management.** Practical lectures on the management of soils of all common types. Soil improvement practices will be studied in their relation to the profitable production of crops. Mr. Richards.

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 farm animals. Practical demonstrations are given, to enable students to recognize diseases and unsoundness and give first aid treatment. Mr. Alexander.



*The
Wisconsin
International*

LIST OF SHORT COURSE STUDENTS
1924-1925

Name	Home Address	Name	Home Address
Adams, Michill W.	Westby	Feldbruegge	Lawrence, Norwalk

POST CARD

THIS SPACE FOR THE ADDRESS ONLY

TWO
CENT
STAMP
HERE

DIRECTOR OF SHORT COURSE

College of Agriculture

Madison,

Wisconsin

Dahlke, William C. Brandon
 Dana, Gordon C. Poplar
 Daniel, David J. Cambria
 Davis, Donald C. Argyle
 Dietzman, Anderson Platteville
 Doersch, Vernon Cleveland
 Doubleday, Willson E. Janesville
 Duesler, Norman L. Barneveld

Eide, Palmer Strum
 Engelhardt, Edward C. Osceola
 Erdman, Martin A. Wausau
 Erickson, Paul H. Maiden Rock
 Evenson, Norman C. Waupun

Hopkins, Richard L. Morrisonville
 Horn, Otto M. Greenwood
 Hughes, Whilden B. Janesville
 Hunt, Carl W. Poplar Grove, Ill.
 Hurlburt, Ray W. Black River Falls

Jaeger, Clarence A. Cleveland
 Jasperson, Wallace Viroqua
 Johnson, Ramond G. Dalas
 Jones, Ivan LeRoy Ft. Atkinson

Karboski, Mitchell Mukwonago
 Kastner, La Vern. Oconto

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 17, 1925. I have had.....years experience on a farm.

Should I change my address before November 16 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

tion of manure and commercial fertilizers to crop yields and
soil improvement. Mr. Stewart.
B. **Soil Management.** Practical lectures on the management
of soils of all common types. Soil improvement practices will
be studied in their relation to the profitable production of crops

LIST OF SHORT COURSE STUDENTS

1924-1925

Name	Home Address	Name	Home Address
Adams, Mighill W.	Westby	Feldbruegge, Lawrence	Norwalk
Adams, Sheldon P.	Oregon	Flasch, Leo J.	Campbellsport
Ahrens, Clarence	Prairie du Chien	Forck, Carl W.	Glen Haven
Andersen, Louis	Cataract	Frisch, Ernest A.	Madison
Anderson, Christian	McFarland	Frisch, Louise F.	Madison
Anderson, Hawkins Clayton, R. 2	So. Wayne	Froeba, Albert O.	Loyal
Andrews, Leon A.	So. Wayne	Galligan, Thomas M.	Ashland
Atkinson, Dale L.	Albany	Gehrmann, Arthur J.	Mellen
Atkinson, Russell	Albany	Giese, Harold H.	Prairie du Sac
Ausloos, Frank	New Franklin	Gilbertson, William L.	Black River Falls
Bainter, Harry	Goshen, Ind.	Gile, Glen	Beloit
Barton, Willis F.	Edgerton	Greenlee, Ross J.	Argyle, Ill.
Beaudett, Hector C.	Chippewa Falls	Greenlee, Wesley J.	Poplar Grove, Ill.
Becker, William E.	Stevens Point	Grob, Raymond	Alma
Beekler, Wilfred C.	Jefferis	Griffiths, William J.	Mineral Point
Benedict, Roland D.	Woodworth	Guderyon, Harold	Waukesha
Bennett, Arthur H.	Cherry Valley, Ill.	Hacker, Roy W.	Forest Junction
Bingham, Walter W.	Lake Geneva	Hale, Clarence R.	Oshkosh
Biwer, Leo W.	Sullivan	Hanna, Martin	Verona
Bliss, Raymond H.	Oconomowoc	Hanna, Palmer	Verona
Boehnen, Reynold	Black Earth	Hansen, Elmer	Waukesha
Brereton, Sylvester	Lodi	Hanson, Arthur	Chetek
Bright, Donald F.	Black River Falls	Harris, Paul	Richland Center
Brown, George R.	Rockford, Ill.	Hathaway, John A.	Madison
Brown, Myron L.	Barron	Hawkins, Kenneth S.	Chicago, Ill.
Bruins, Franklin S.	Brandon	Heintz, William	Madison
Buenger, Paul G.	Mt. Carroll, Ill.	Held, Edwin	Slinger
Buergi, Theodore	Campia	Hess, Chase N.	Walworth
Calvert, Earl S.	Madison	Hirt, George J.	Medford
Campbell, Philip L.	Madison	Hoff, Lewis E.	Barron
Carman, Clarence F.	Oregon, Ill.	Holdt, Arthur	Cataract
Craker, Victor C.	Holcombe	Holt, David H.	Elkhorn
Currie, Andrew, Jr.	Lodi	Holzmann, William	North Freedom
Dahlke, William C.	Brandon	Hopkins, Richard C.	Morrisonville
Dana, Gordon C.	Poplar	Hopkins, Richard I.	Morrisonville
Daniel, David J.	Cambria	Horn, Otto M.	Greenwood
Davis, Donald C.	Argyle	Hughes, Whilden B.	Janesville
Dietzman, Anderson	Platteville	Hunt, Carl W.	Poplar Grove, Ill.
Doersch, Vernon	Cleveland	Hurlburt, Ray W.	Black River Falls
Doubleday, Willson E.	Janesville	Jaeger, Clarence A.	Cleveland
Duesler, Norman L.	Barneveld	Jasperson, Wallace	Viroqua
Eide, Palmer	Strum	Johnson, Ramond G.	Dalas
Engelhardt, Edward C.	Osceola	Jones, Ivan LeRoy	Ft. Atkinson
Erdman, Martin A.	Wausau	Karboski, Mitchell	Mukwonago
Erickson, Paul H.	Maiden Rock	Kastner, La Vern	Oconto
Evenson, Norman C.	Waupun		

- Kieffer, Andrew M.Mauston
 Klossner, John J.Rice Lake
 Kobbervig, Raymond H.Mt. Horeb
 Kortbein, Arnold L.Norwalk
 Kussow, Willard C. West De Pere
- Lasse, Erwin L.Twin Bluffs
 Latham, Donald L.Stitzer
 Lemke, Edwin F.Shiocton
 Lundt, Elmer W.Palmyra
 Lyford, Joseph H.Rockford, Ill.
- McDowell, RayWaukesha
 McDowell, Roy E.Waukesha
 McLeod, Dan A.Hayward
 Marek, EdwardKewaunee
 Martineau, Paul L.Lena
 Mathews, GeorgeMedford
 Mentz, GilbertLaona
 Metcalf, Thomas W. Spring Green
 Michels, WilfredPeebles
 Miller, MarvinMenomonie
 Mills, Howard E.Poynette
- Nelson, WardUnion Grove
 Nodok, Mathilda S. Williams Bay
 Norem, EndreBryant
- O'Keefe, LeonardStevens Point
 Olsen, Olaf L.Fish Creek
 Onsgard, AlexanderCambridge
 Owen, Eugene V.Ixonla
- Perkins, Ralph T.Winchester, Mass.
 Picken, Richard G.Argyle, Ill.
 Pierce, John R.Edgerton
 Popp, Herbert J.Chilton
- Ranum, EdwardMt. Horeb
 Reed, ClarenceChippewa Falls
 Reineck, Louis W. New Holstein
 Reineck, WilliamNew Holstein
 Reusch, Willie B.Lodi
 Rezach, James A.Kewaunee
 Rice, Gordon J.Chelsea
- Rice, Karl K.Boscobel
 Rice, Vern T.Boscobel
 Riewesthal, AlfredSaukville
 Ristow, Clifford C.Black River Falls
 Rortvedt, PeterVerona
- Savage, Cutler W.Union Grove
 Schaffner, Edwin S.Fountain City
 Schmit, Theodore A.Greenville
 Schwabenlander, Anthony Hilbert
 Shackell, Arthur J. Rockford, Ill.
 Shirk, LeRoy L.Gotham
 Smoke, Casimir A.Milwaukee
 Stettler, WernerFountain City
 Stokstad, LewisEdgerton
 Stueck, LesterMishicot
 Stuessy, Melvyn W.Riley
 Stumpf, FrankWaunakee
 Swenson, KennethHollandale
- Tesch, RolandChilton
 Tiffany, Albert J.Antioch, Ill.
 Topping, Jed L.Endeavor
- Ula, James E.Blanchardville
- Vaughan, Elmer E.Aurora, Ill.
 Verburg, JohnMilwaukee
- Walker, Lloyd S.Sturgeon Bay
 Weaver, Howard S.Milwaukee
 Wendorff, William R.Shawano
 Wetmore, Franklin J.Hancock
 Williams, CarlMadison
 Willis, Robert H. G.Rudyard, Mich.
 Winn, Wilber L.Dixon, Ill.
 Woepse, OscarGreenwood
 Wohlfert, RaymondOxford
- Zajicek, EdwardBarnum
 Zastoupil, John L.Tomah
 Zick, RobertNorth Freedom
 Zimmerly, Ernest P.Baraboo
 Zinke, Theodore E.West Bend
 Zittlow, Edward W.W. De Pere