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Training for farming in the short course: 1933-34.

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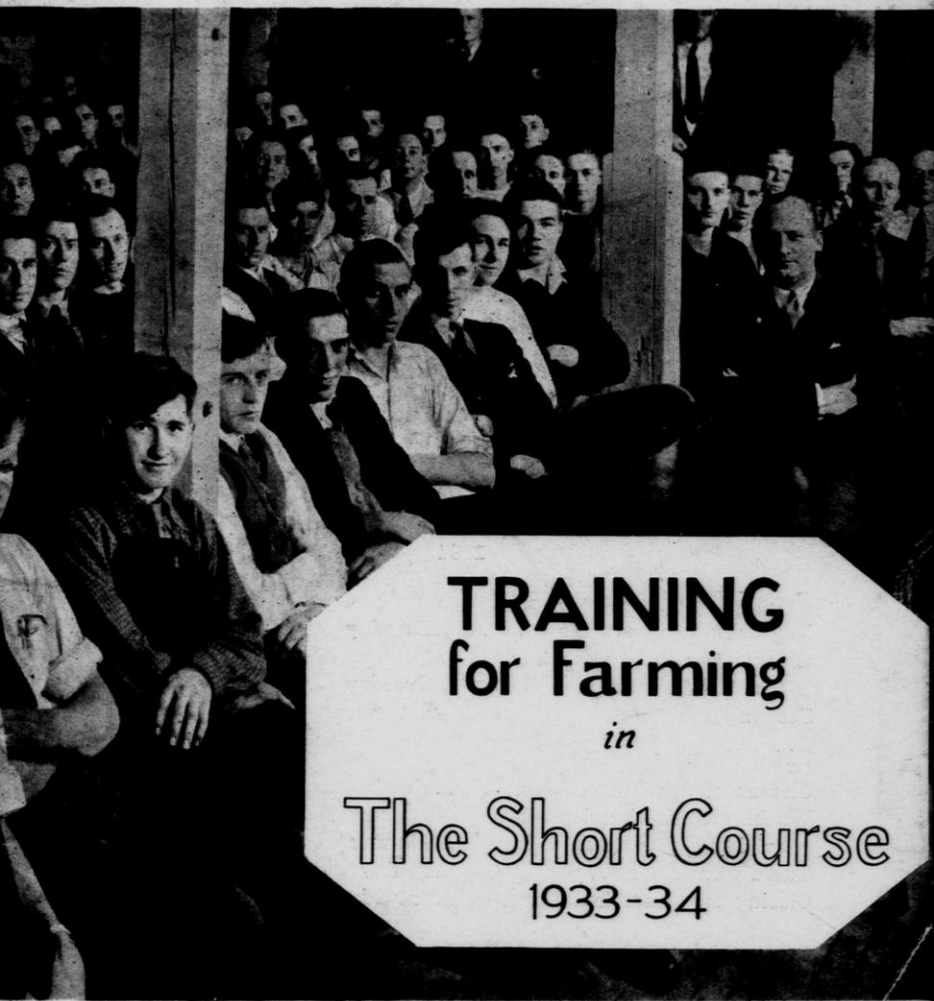
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TRAINING
for Farming

in

The Short Course
1933-34

College of Agriculture, University of Wisconsin. Serial No. 1909
Bulletin of the University of Wisconsin. General Series No. 1693

SHORT COURSE CALENDAR

1933

First Term

Registration Day	Tuesday	November 14
Classes Begin	Wednesday	November 15
Thanksgiving—legal holiday	Thursday	November 30
Christmas recess begins	Wed. (noon)	December 20

1934

Second Term

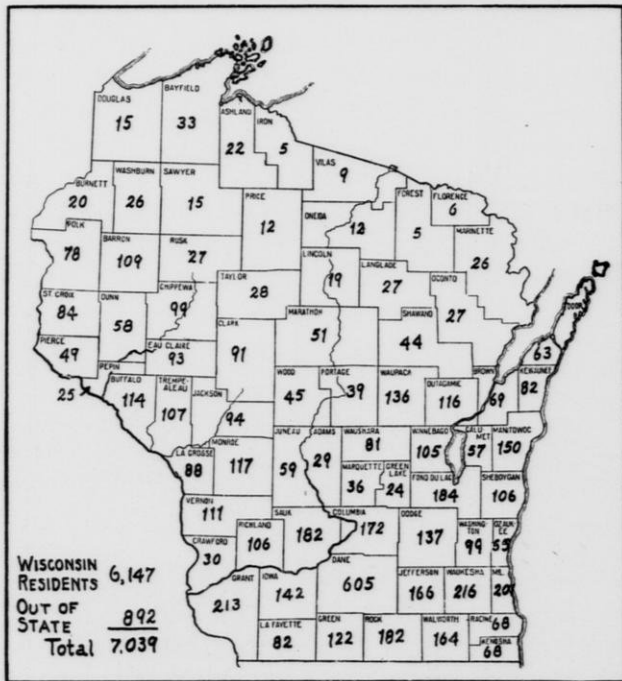
Registration of new students	Tuesday	January 2
Classes of second term begin (8:00 A.M.)	Tuesday	January 2
Second term closes	Saturday	February 3

Third Term

Classes of third term begin	Monday	February 5
Washington's Birthday—legal holiday	Thursday	February 22
Third term closes	Friday	March 9
Closing day Exercises	Saturday	March 10

Training for Farming

THE NEW short course at the College of Agriculture is a practical form of adult education planned to give young men the training essential to successful farming and rural leadership. Agriculture is changing; and the farmers of the future must prepare themselves to meet these new conditions. They must be able to work both as individuals and as members of



organized groups if they are to deal effectively with problems of production, distribution, and consumption of their products.

In building the new short course, essentially four definite changes have been made. First, a revision of the course of study; second, the selection of the best instruction; third, the establishment of a dormitory and dining room; and fourth, training for leadership through "evening forums." The response received from the young men in Wisconsin last year resulted in a 40 per cent increase in attendance in the course. Their expression of approval of the changes was most gratifying. The program of courses and the dormitory facilities for this year have been especially planned to meet the unusual conditions of the present time.

Why Attend the Short Course?

You are interested in improving yourself regardless of your age or occupation. Farming, like other industries, pays those properly trained. An understanding



PLANT SCIENCE BUILDING
(Containing R. A. Moore Hall)



AGRICULTURAL CHEMISTRY BUILDING

of the fundamental facts of farming gained from science serves as a starting place in this important field. New activities confront us. The successful marketing of farm products needs sound guidance and calls for business training, a responsibility which the farmer must meet. He must prepare himself for efficient service in this and various other important economic and social phases of farming and rural living.

Specialization has come to agriculture and, as a result, we hear more about herdsmen, cow testers, tractor operators, seedsmen, and poultrymen. By selecting from the courses offered, students may qualify themselves for service in farming and in these specialized fields. The College of Agriculture maintains a bureau which has a most successful record in placing young men who do not plan to return to their home farms. This fact emphasizes the value which employers place upon proper training.

The farmers of the future will work together. Your meeting and associating with other young men from

all parts of Wisconsin and other states will prove beneficial to you. Many prominent leaders in agriculture today are short course graduates.

Who Comes to the Short Course?

Over 7,000 young men in Wisconsin have trained themselves in the Short Course. Experience in farm work is not necessary but is desirable. There are no entrance examinations and the course is arranged to attract both young men who have finished high school and those who left school while in the grades. Many older men come to the course for work in special subjects. Courses and sections of courses are arranged to provide for previous school experience of the students.

Students who are graduates of high schools and who have had three or four years of agriculture may finish the course in one winter of 15 weeks. They may select the courses from either the first or second year schedule. Other students will take the first year schedule as out-lined on page 18.

Thirty-six credits are required for graduation.

At least eighteen credits must be completed at Madison before a certificate is granted.

A record of work from the school for which credit is to be requested with subjects, semesters taken, grades and certificate of graduation signed by the proper school authority should





THE HORTICULTURAL BUILDING

be sent to V. E. Kivlin, Director of Short Course, before the day of registration.

How Does the Course Operate?

The course consists of two winters of fifteen weeks each. A student may enter at the beginning of any of the three five-week periods.

Classes are held in the various buildings on the agricultural campus.

The library of the College of Agriculture is open to the students in the Short Course. Here students may study while not attending classes. Instruction on the use of the library will be given to all students at times to be arranged.

A standing of 60 or more is a passing grade.

If a subject is elected by a student, it cannot be dropped unless permission is secured from the Director.

Failure in any course must be removed before graduation.

The College of Agriculture will not offer courses unless elected by at least eight students.

A student should not select more than five courses during any one term.

In special cases where students of the Short Course meet the University entrance requirements for collegiate courses,

the Executive Committee will consider granting of credit for Short Course subjects in which a grade of 85 or more has been recorded.

Satisfactory home project work or Boys and Girls Club work may be substituted for one and one-half credits in either the first or second year schedule.

Are Advanced Courses Offered?

Many short course graduates return for a third year of work. The course as outlined on pages 18 and 19 contains more work than it is possible to pursue in two winters.

A special certificate is awarded upon the completion of each eighteen credits of work.

How Much Will It Cost?

The chief expenses are for room and board. With the establishment of the short course dormitory and dining room the students in 1932-33 completed the fifteen weeks course for less than one hundred dollars. This included board, room, and fees. The following are the estimates at the dormitory for the fifteen weeks:

Room	\$15.00
Board—\$4.00 per week	60.00
Fees—(See page 9)	23.00



SHORT COURSE STUDENTS ATTEND THE SUMMER PICNIC

Miscellaneous articles such as paper and supplies should add very little to the expense.

Students interested in taking advantage of the short course dormitory should fill out the form on page 37 of this circular and mail it at once to V. E. Kivlin, Director of Short Course. Available accommodations in the short course dormitory will be given in the order in which the applications are received.

Students who so desire may room in private homes. The Director of the Short Course will have lists of rooms available on registration day and will help students in finding desirable places. Students when located in a rooming house shall not move to another house without consent of the Director of the Short Course. Any dissatisfaction with rooms should be discussed with the director.

College Fees. Students enrolling the first term pay for the entire year, fifteen weeks. Students enrolling at the beginning of the second or third term pay about two-thirds or one-third respectively of the total yearly fee. The following table 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 and Memorial Union.....	\$ 11.00	11.09
Infirmary	2.50	2.50
Laboratory fee	7.50	7.50
Laboratory deposit	2.00	2.00
	\$ 23.00	\$74.67
Total fees for 10 weeks for those entering the Second Term		
Tuition		\$34.45
Incidental and Memorial Union	7.67	7.67
Infirmary	2.00	2.00
Laboratory fee	5.00	5.00
Laboratory deposit	2.00	2.00
	\$ 16.67	\$51.12
Total fees for 5 weeks for those entering the first Term or the Third Term		
Tuition		\$17.22
Incidental and Memorial Union ...	4.34	4.34
Infirmary	1.00	1.00
Laboratory fee	2.50	2.50
Laboratory deposit	2.00	2.00
	\$ 9.84	\$27.06

Positions for Short Course Graduates

The Short Course is offered to train young men for farming and as a result a large majority of the students who take

the course return to their home farms. These men are more efficient and prosperous farmers because they have accurate knowledge of the better farming practices. They have an appreciation of rural life and believe the farm offers an ideal place upon which to live.

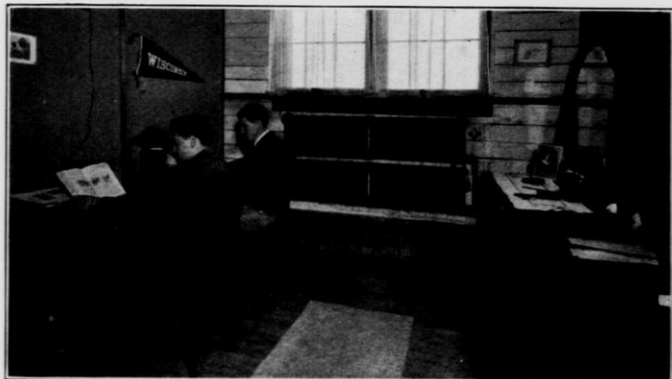
Every effort is made to give Short Course students plans and illustrations of where increased profits may be had by the study of activities aside from general farming. Many of these graduates form partnerships with their fathers in running the home farm or with older brothers who have already assumed this responsibility. A few of the students who do not plan to return to the home farm after completing the course get positions as: farm managers, poultrymen, seedsmen, herdsman, cow testers, or in commercial activity.

The Dormitory and Dining Room

The dormitory started last year affords the students a place to live and work together while attending the short course. The building is situated on the agricultural campus and is the center of short course activity. The rooms are well heated, lighted, and furnished, and the building is equipped with showers.



THE SHORT COURSE DORMITORY



A GOOD PLACE TO STUDY

Situated a short distance from the dormitory is a building which has been remodeled into a dining room where the short course students eat.

A broad educational training through the dormitory program is now a part of the short course. The "evening forums" give the students an opportunity to meet and to discuss with outstanding men of the University faculty and of the state important problems in the affairs of the world. The large assembly room in which these discussions are held also serves as a place for recreation, student meetings, reading (your home town paper will be there), and a general out-of-class-room good time.

The following is the "evening forum" program conducted at the dormitory during the first five weeks, 1932-33: (The cover page shows the students attending one of the "evening forums.")

Nov. 15 Short Course Get-together—V. E. Kivlin, G. M. Briggs

Nov. 16 Medical Examinations—U. W. Clinic Staff

Nov. 17 Medical Examinations—U. W. Clinic Staff

Nov. 18 Parties at the Student Churches—Student Pastors

Nov. 19 Touch Football Game—Intramural Field—Mr. Kimball,
Mr. Berge

- Literary Society Organization Meeting—Mr. Kimball,
Mr. Berge, Mr. Kivlin
- Nov. 20 Church
Touch Football Game—Mr. Kimball, Mr. Berge
- Nov. 21 Musical Appreciation—Major E. W. Morphy
- Nov. 22 Basketball and Swimming—U. W. Gym
- Nov. 23 Thanksgiving Program—Short Course Students
- Nov. 24 Touch Football Game—Intramural Field
- Nov. 25 Convocation—President Glenn Frank
Relation of Agriculture to World Markets—Dean Chris
L. Christensen
- Nov. 26 Touch Football Game—Mr. Kimball, Mr. Berge
- Nov. 27 Visits to Places of Interest in Madison—Mr. Kimball,
Mr. Berge
- Nov. 28 Literary Society—G. Moulton, Pres.
"The Tariff"—Ariel Ladd
- Nov. 29 Musical Appreciation—Major E. W. Morphy
- Dec. 1 Healthful Living—Dr. E. L. Sevringhaus
- Dec. 2 Meeting of F. F. A. Group—Arley Heinze, State Pres.



IN THE DINING ROOM

- Dec. 5 Literary Society—Debate—Smoot Hawly Tariff
Talk by Asher Hobson and B. H. Hibbard
- Dec. 6 The Stories of an Early Trapper—R. A. Moore
- Dec. 7 Swimming and Basketball—U. W. Gym
- Dec. 8 The Responsibilities of Gentlemen—John H. Kolb
- Dec. 12 Literary Society Meeting—The New Short Course—
V. E. Kivlin
- Dec. 13 "The History of Wisconsin Agriculture"—Charles L.
Hill, Commissioner of Agriculture
- Dec. 14 F. F. A. Meeting—L. M. Sasman, State Adviser
- Dec. 15 "An Analysis of Farm Legislative Proposals"—Dean
Chris L. Christensen
- Dec. 16 Land Use—R. B. Goodman, Marinette
- Dec. 19 "The Christmas Spirit"—Louis Kahlenberg
- Dec. 20 Christmas Party at the dormitory

A program similar to the above was carried out during the second and third terms of the course. The program for this year has been formulated and will be an interesting and profitable part of the course.



SHORT COURSE GLEE CLUB



SHORT COURSE ORCHESTRA

Short Course Scholarships

The Regents of the University of Wisconsin offer twenty scholarships of \$75 each to first year students in the Short Course who are residents of Wisconsin. Information concerning these scholarships will be sent upon request. Write V. E. Kivlin, Director of Short Course, College of Agriculture.

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.

Books. A number of books will be needed by Short Course students but it is not advisable for prospective students to buy any textbooks until they are instructed to do so.

Medical Supervision. The health of the students is cared for by the clinical department of the School of Medicine. All are given a medical examination on entrance and any student feeling indisposed is 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.

Are There Other Activities?

Special attention is given to social activities during the Short Course. As a first step in becoming acquainted the second year students entertain entering students on the evening of registration day.

The Literary Society conducted by Short Course students meets at the dormitory every Tuesday night during the session for debating, public speaking, and parliamentary drill. Frequently faculty members and other prominent agriculturists address the society.

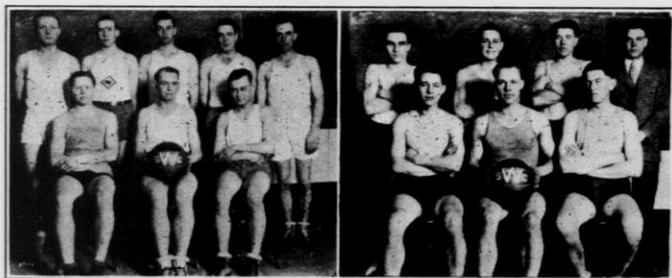
The Glee Club and Orchestra under faculty leadership afford opportunity for the boy who likes to sing or play or for the boy who wishes further training.

Athletic events are arranged in the winter sports for all those who enjoy them—basketball, wrestling, boxing, swimming and volley ball.

Churches of All Denominations in Madison have their student organizations and services to which Short Course students are welcomed.



MEDICAL ATTENTION AND HOSPITAL CARE IS GIVEN HERE



SHORT COURSE BASKETBALL TEAMS

College Organizations are open to the Short Course students. The Country Magazine and the Saddle and Sirloin Club invite them to take an active part.

The Agricultural Experiment Association is an organization of Short Course students interested in improved methods and practices upon their farms. It has been especially helpful in disseminating purebred seeds and in marketing the seed produced by its members.

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

Courses You May Take

- A. *General Farming Course.* This is the main course requiring two winters of 15 weeks each and 36 credits to receive a certificate. The first year schedule is required of all students who are not high school graduates or its equivalent. High School graduates may select from any of the courses given. The schedule offers enough instruction to permit a

third winter of training and students completing this work are given a special certificate.

B. Special Courses:

From the schedules on pages 18 and 19 it is possible to select work along the lines of special interest. The following is an example of the Cow Testers Course:

COW TESTERS COURSE

Hour	First Term Nov. 14—Dec. 20	See Page	Second Term Jan. 2—Feb. 3	See Page	Third Term Feb. 5—Mar. 10	See Page
8-10	Dairy Cattle Judging and Management		Feeds and Feeding Farm Bacteriology	27 23	Feeds and Feeding	27
10-11	Poultry Sanitation	35	Farm Management	25	Elective	
11-12	Farm Advertising	26	Marketing	24	Cooperative Marketing	25
1:30	Farm Dairying	28	Farm Records	24	Cow Testing Association	28
3:30	Farm Economics	24	Adv. Dairy Cattle Management	28	Elective Farm Correspondence	26



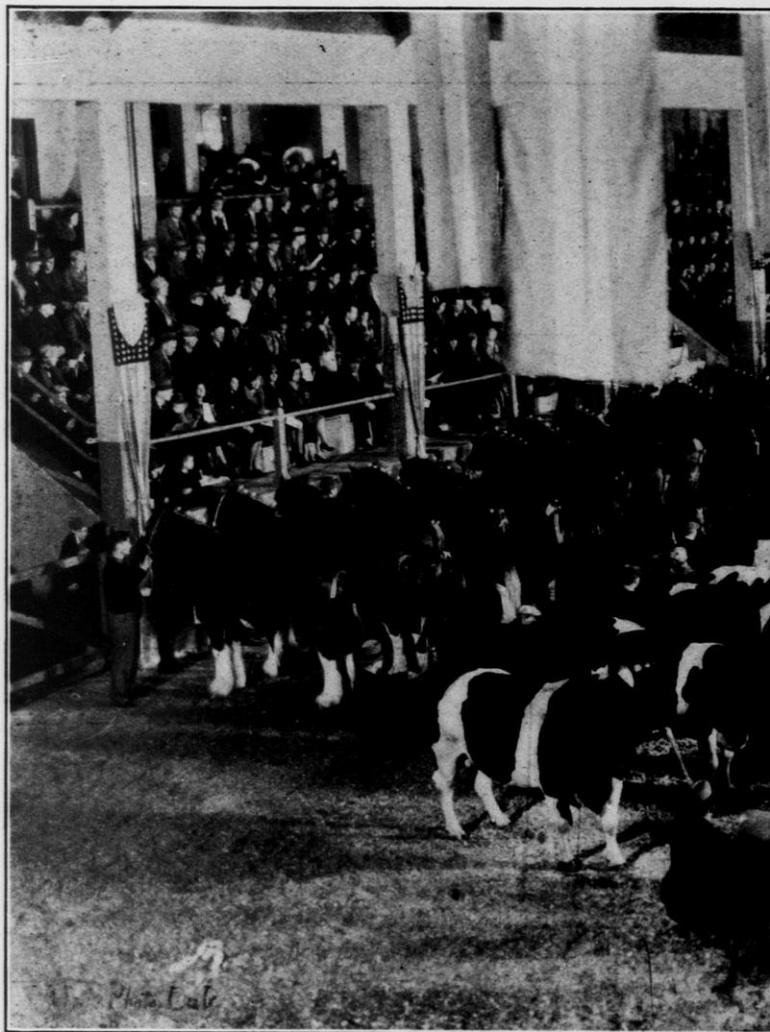
A HORSE DEMONSTRATION

GENERAL FARMING SCHEDULE—FIRST YEAR

Hour	First Term Nov. 14—Dec. 20	See Page	Second Term Jan. 2—Feb. 3	See Page	Third Term Feb. 5—March 10	See Page
8-10	Soil Management Gas Engines Farm Crops	34 25 26	Gas Engines Farm Crops Soil Management	25 26 34	Farm Crops Soil Management Gas Engines	26 34 25
10-11	Livestock Sanitation ...	35	Feeds & Feeding	27	Feeds & Feeding	27
11-12	Farm Chemistry	23	Farm Bacteriology	23	Poultry	31
1:30-3:30	Farm Dairying Animal Husbandry Farm Records	28 27 24	Animal Husbandry ... Farm Records Farm Dairying	27 24 28	Farm Records Farm Dairying Animal Husbandry ...	24 28 27
3:30-4:30	Farm Economics (A) ...	24	Farm Economics (B) ..	24	Rural Society—Its or- ganization and change Farm Correspondence .	33 26
4:30 TT	Glee Club and Orchestra	15	Glee Club & Orchestra	15	Glee Club & Orchestra	15
4:30 F	Parliamentary Practice..	30	Parliamentary Practice	30	Parliamentary Practice.	30

GENERAL FARMING SCHEDULE—SECOND YEAR

Hour	First Term Nov. 14—Dec. 20	See Page	Second Term Jan. 2—Feb. 3	See Page	Third Term Feb. 5—March 10	See Page
8-9	Dairy Cattle Management	27	Farm Management	24	Plant Diseases	31
9-10			Marketing	24	Cooperative Marketing and Management ...	24
10-11	Farm Advertising	26	Farm Advertising	26		
11-12	Poultry Sanitation	35				
10-12			Beef & Sheep Management	27	Home Ground Improvement	30
			Farm Machinery	25	Tractors	25
1:30-2:30	Forage Crops	26	Poultry Production	31	Seed Production and Weed Control	27
					Rural Community Organization	34
					Incubation & Brooding	32
2:30-3:30	4-H Club Leadership ..	30	4-H Club Leadership ..	30	Soil Management	34
1:30-3:30	Poultry Management ... Beekeeping	31 29	Horticultural Practice.. Rural Electrification....	30 25	Cow Testing Association	28
3:30-5:30 MW	Farm Insects & Control	29	Advanced Dairy Cattle	28	Swine Management ...	28
3:30-4:30 TTF	Cow Testing Association	28	Blacksmithing and Carpentry (WF 3:30-5:30)		Farm Mechanics and Construction	26
	Horse Judging and Management	23				
4:30 TT	Glee Club & Orchestra...	15	Glee Club & Orchestra.	15		
4:30 F	Parliamentary Practice..	30	Parliamentary Practice.	30	Parliamentary Practice.	30



THE LITTLE INTER



TIONAL, IN PROGRESS

C. Courses similar to the cow testers course outlined above which may be selected from the work in the Short Courses are: Farm Business Course, Farm Engineering Course, Seedsman's Course, Herdsman's Course, Poultry Course, and Tractor Course.

Students who are interested in specializing should, at the time of registration, consult the Director of the Short Course, at which time an appropriate schedule will be arranged.

D. *The Winter Dairy Manufacturers Course*—A twelve week's course beginning the first week in November and continuing until the end of January is open to persons who have had at least six month's experience in a creamery or cheese factory. The course leads to buttermaking, cheese making, or city-milk supply. A special circular may be secured by addressing H. C. Jackson, Dairy Department.

E. *Farmers Week*: Each year in February the College of Agriculture holds "Farmers' and Homemakers' Week". During this time a reunion for present and past short course students is arranged. Short course students are given the opportunity of attending some of the Farmers' Week meetings.



SHORT COURSE "GRADS" HAVE A PICNIC

DEPARTMENTS OF INSTRUCTION

Agricultural Bacteriology

Mr. Sarles

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 inoculation 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. The transmissible diseases which are of the greatest importance to the livestock industry of the state are studied from the standpoint of prevention and control.

Agricultural Chemistry

Mr. Hart, Mr. Tottingham, Mr. Elvehjem

Farm Chemistry. This course is planned with a view to showing the gain or loss of soil fertility in various types of farming. The chief subjects covered by discussion and text book assignments are: processes of plant growth in relation to the soil and air, digestion and use of food by the animal, distribution of fertility in dairy products, nutrition of poultry, mineral feeds for and mineral requirements of the dairy cow, protein and vitamins requirements of animals, and the treatment of anemia.



SHOWING CATTLE

The nature and uses of commercial fertilizers and of spray materials are considered. Special attention is given to the chemical principles involved in the handling of farm manure.

Agricultural Economics

Mr. Hobson, Dean Christensen, Mr. Wehrwein,
Mr. Mitchell, Mr. Schaars

The studies given are designed to give the student an appreciation of the entire business aspect of farming by showing the general economic questions facing agriculture, the value of keeping accurate accounts and managing farms for economical production, and the importance of effective merchandising methods applied to marketing agricultural products.

Farm Records. Elementary principles 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. Mitchell.

Farm Economics: 1. Lectures and discussions on economic problems which confront the farmer; cost of production and prices, changes and trends in prices of farm products, overproduction and the surplus; the tariff, bounty and other plans for farm relief and price stabilization. Mr. Wehrwein.

2. The relation of the farm to land—tenure, credit and taxation. Problems of land utilization; land values and appraisal; problems of the farmer in renting and buying land and obtaining credit; a brief survey of taxation with special reference to agriculture. Mr. Wehrwein.

Marketing. This course includes a study of necessary marketing services, agencies, and methods; an analysis of marketing channels, a discussion of cooperative marketing and the middleman system, as well as a consideration of market prices, marketing weaknesses, and marketing improvements. The relationship between the economical production, quality products, efficient and effective marketing, and better rural social life is pointed out. Mr. Schaars.

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 layout of the farm, the capital and equipment necessary for the various types of farming and the problem of farm help are considered. Mr. Mitchell.

Cooperative Marketing. This course consists of a study of the objects, organization set-up, and methods of doing business by cooperative marketing associations. Special phases of the subject such as membership contracts, pooling, financing, incorporation, etc., are treated. Current cooperative marketing issues and a review of the commodity organizations within the state will be taken up. Dean Christensen, Mr. Hobson.

Agricultural Engineering

Mr. E. R. Jones, Mr. Duffee, Mr. Schaezner,
Mr. Huber

The Department of Agricultural Engineering has unusual facilities for giving practical instruction to students. Thousands of dollars' worth of tractors, en-



PRACTICE WITH TRACTORS

gines, 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. 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. Huber.

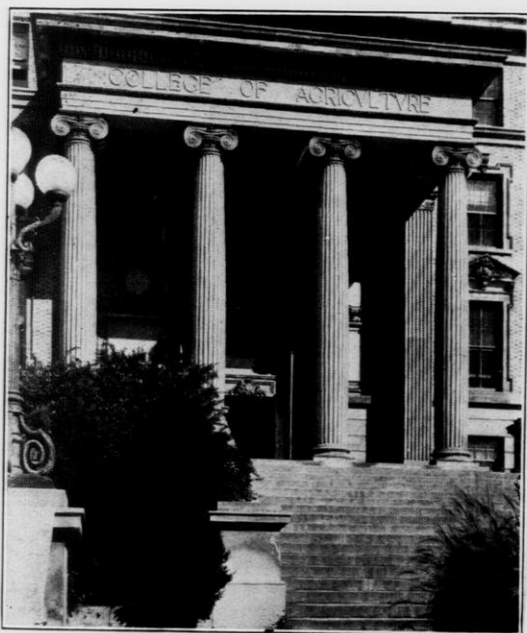
B. Farm Machinery. Construction and operation of the different types of farm implements such as plows, binders, corn planters, cultivators, etc. Mr. Duffee and Mr. Huber.

C. Farm Mechanics and Structures. Leveling, subdivision of land, water supply, sewage disposal, plumbing, heating and ventilation; concrete construc-

tion, thread cutting, soldering, rope work and harness repair. Lectures, problems and laboratory work. 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.

E. Rural Electrification. Lectures, demonstrations, laboratory work and problems in the use of electricity on the farm. Mr. Schaezner.



ENTRANCE TO "AG HALL"

AGRICULTURAL JOURNALISM

Mr. Sumner, Mr. Rasmussen

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

Farm Correspondence. Farmers very frequently have occasion to write in operating their farms. Their duties as officers of local community groups, farm organizations, school districts, and town government require a practical knowledge of writing and the keeping of records. The writing of farm letters, minutes of meetings, reports, communications, and addresses for farm organizations will be studied. Practical exercises in farm correspondence will be given. Mr. Rasmussen.

Agronomy

Mr. Moore, Mr. Briggs, Mr. Graber, Mr. Leith, Mr. Wright,
Mr. Stone, Mr. Holden

The courses in Agronomy are intended to give the students a knowledge of the elements involved in the successful production of farm crops. The selection of varieties, cultural methods, management, rotations, improvement of all kinds of farm crops, and the control of weeds will be fully discussed.

A. Farm Crops. A study of varieties of field crops for Wisconsin and methods of handling them through all phases of culture and harvest. Mr. Wright, Mr. Leith, Mr. Briggs.

B. Forage Crops. A discussion of the best methods and practices in handling and improving legumes and other forage crops. Mr. Moore, Mr. Graber.

C. Seed Production and Weed Control. A study of the breeding, production, marketing, and judging of Wisconsin grains and corn. Study of weeds and weed seeds and their control. Relation of pure seeds and clean fields to best practice in crops production. Mr. Moore, Mr. Stone, Mr. Holden.

Animal Husbandry

Mr. Humphrey, Mr. Fuller, Mr. Fargo, Mr. Rupel,
Mr. Harris, Mr. Cramer, Mr. Werner

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

A. Animal Husbandry. Textbook and demonstrational work in the study of market classes and breeds of livestock. Mr. Fargo, Mr. Werner.

B. Feeds and Feeding. The study of feeding stuffs, principles of feeding and rations. Mr. Humphrey, Mr. Rupel.

C. Advanced Feeds and Feeding. A continuation of the study of feeds and feeding with special application to practical problems. Mr. Humphrey, Mr. Rupel.

D. Dairy Cattle Management. Mr. Humphrey and Mr. Werner.

E. Beef Cattle and Sheep Management. Mr. Fuller.

F. Advanced Dairy Cattle Management. A continuation of course D. Mr. Humphrey, Mr. Werner.

G. Swine Management. Mr. Fargo.

H. Cow-testing Associations. Outline 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 student 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

Mr. Jackson, Mr. Weckel

In farm dairying, students receive instruction in the general principles which are involved in the production, testing, and handling of milk and cream



LEARNING TO SPRAY FRUIT TREES

at farms for city markets, creameries, condenseries, and cheese factories, figuring yields of dairy products, and the making of dairy products on the farm and in the factory.

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, milk coolers, and other appliances of the dairy. Mr. Jackson.

Economic Entomology

Mr. Wilson, Mr. Fluke, Mr. Alfonsus

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.

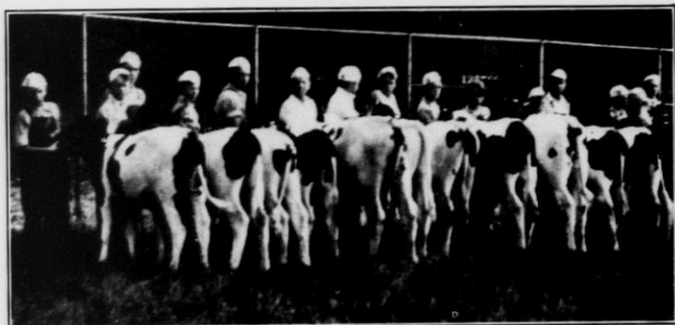
A. Farm Insects and Control. A study of the more important insect pests of farm, garden and orchard crops to admit of ready recognition and treatment. Principles of insect control will be studied and applied to individual insects according to the best known methods. Mr. Fluke.

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, grading and marketing the honey, bee diseases, their recognition and treatment. Mr. Alfonsus.

4-H CLUB

Mr. Bewick, Mr. McNeel

4-H Club Organization and Leadership. Many short course students are interested in taking an active part in the leadership of 4-H Club work in their home communities and often find time to aid in the organization of these clubs. This course aims to give the training essential to club leadership and organization. The course provides for instruction and discussions on such subjects as: the importance of clubs in home and community life; the psychology of leadership; methods of organizing clubs and of carrying out the 4-H purpose in lives of rural boys and girls; leadership in games, singing, conducting interesting meetings and carrying on the instruction work is given special attention. Mr. Bewick, Mr. McNeel.



4-H CLUB MEMBERS SHOW CALVES

Horticulture

Mr. Moore, Mr. Milward, Mr. Aust, Mr. Brann,
Mr. Longenecker

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.

A. Horticultural Practice. A course designed for those desiring work in horticulture. Demonstration lectures and laboratory exercises in the various operations of fruit, vegetable, and potato culture. Mr. Brann, Mr. Milward, Mr. Moore.

B. Home Grounds Improvement. Pleasing home grounds increase the value of the farm and give pleasure to the occupants of the home. This course is designed to teach the student how to plan and plant the home grounds most effectively. It also attempts to familiarize him with the plants best adapted for the ornamentation of the grounds surrounding the home. Mr. Aust, Mr. Longenecker.

Parliamentary Practice

Mr. Kivlin

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. Kivlin.

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

Plant Pathology

Mr. 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. The symptoms of the common and more important plant diseases of Wisconsin crops are studied that one may recognize them at sight. Attention is given to the diseases of field crops, grains, fruits, potatoes, and of other horticultural crops. Control measures and their application are emphasized.

Individual laboratory work gives first hand acquaintance with the symptoms of the diseased plants and the characters of the parasitic fungi and bacteria causing the diseases. Attention is given to methods of over-wintering of the parasites and to the spread and control of the diseases. Mr. Vaughan.

Poultry Husbandry

Mr. Halpin, Mr. Holmes

The Poultry Department is equipped with poultry buildings, colony houses, a complete line of incubators, brooders, and other poultry apparatus. In addition, some twenty varieties of chickens, 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



A STUDY OF POTATOES



WHAT BIRDS SHOULD BE KEPT FOR PRODUCTION?

be used. An extensive file of poultry journals and books is to be found in the Agricultural Library.

A. Market Poultry. A general survey of grades of market poultry including chickens, turkeys, ducks, and geese. Caponizing and fattening; methods of killing, dressing and marketing broilers, roasters, capons, etc. Mr. Holmes.

B. Poultry Judging. Practice in the identification of the more common breeds and varieties. Judging poultry for standard breed qualities; culling and judging hens for egg production. Mr. Halpin and Mr. Holmes.

C. Production and Marketing of Eggs. Feeding, housing, and managing the flock for egg production; methods of sanitation. Candling, grading and packing market eggs; systems of marketing poultry products. Mr. Halpin and Mr. Holmes.

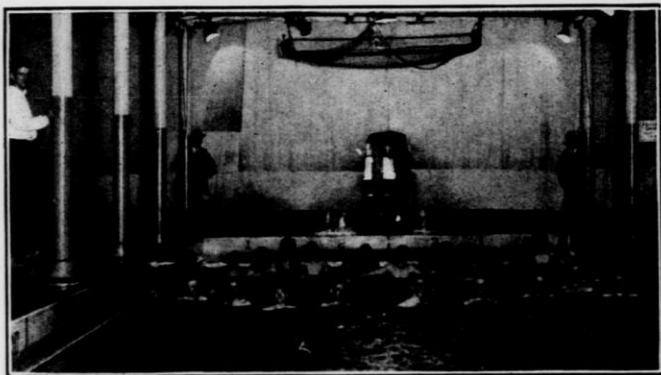
D. Incubation and Brooding. A study of chick development and the factors that influence fertility and hatchability of eggs. Artificial brooding and the feeding, care and management of baby chicks. Mr. Halpin.

Workshop Departments

Mr. Dorrans, Mr. Schumann, Mr. Peters

A. Elementary Carpentry. Instruction is given in methods of sharpening wood working tools, their use and care. Problems that can be used on the farm or in the home may be worked out. Instruction in the use of the steel square is given. Mr. Dorrans.

B. Elementary Forging. Instruction in the essential operations of forging, such as drawing out, upsetting, pointing, bending and welding is given. Problems such as chain links, rings, clevises of various forms and cold chisels are offered. Instructions in hardening, tempering, soldering and brazing. Mr. Schumann, Mr. Peters.



ENJOYING A SWIM

C. Advanced Carpentry. More advanced work to meet the individual needs of the student. The construction of stairs, model barns, portable pens and framing for concrete construction may be undertaken. Merits of painting, staining, and varnishing are studied. Mr. Dorrans.

D. Advanced Forge Work and Acetylene Welding. A continuance of forge work on advanced problems. Acetylene welding practice. Mr. Schumann, Mr. Peters.

Rural Sociology

Mr. Kolb, Mr. Wileden

Farming is a mode of life as well as a means of earning a living. Work in this department is concerned with the objectives of agriculture as measured in possible better standards of home and community life. Study is directed to "the science and art of living and working in groups." Opportunity is given for short course students to share in the direction of the drama discussion and musical events held under the supervision of the Department and to develop programs of work for the various types of rural organizations in which they may have a special interest.

Rural Society—Its Organization and Changes. Rural society along with general society is undergoing many social changes. Farmers and farm leaders need to be acquainted with such changes and their probable trends so that they can adjust their farm business, their family living, their cooperative enterprises, and their community institutions and activities accordingly. Attention will be given to the place and setting of rural society in general society, to population

changes, to rural groups and social institutions, and their modern trends. Mr. Kolb.

Rural Community Organization. This course is designed to provide future farmers and future farm leaders with information about the various local rural groups and institutions that affect their daily life and income. Study will be made of problems concerned with local groups and institutions concerned with schools, libraries, churches, rural health, social welfare, rural government, and farm organizations. Consideration will be given to ways in which they can be best adapted to serve present rural needs. Particular emphasis is given to the various types of rural clubs and community organizations with suggestions and plans for making them more effective. Students select a local problem which they wish to study. Mr. Wileden.

Soils

Mr. Whitson, Mr. Graul, Mr. Chapman

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

A. Soil Management. 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 effecting 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.

B. Soil Management. Practical discussions on the management of soils of all common types. Soil improvement practices will be studied in their relation



SOIL TESTING LABORATORY

to the profitable production of crops. Emphasis will be placed on planning soil improvement and maintenance programs on farms of various types. Prerequisite: Soil Management A or equivalent.

Veterinary Science

Mr. B. A. Beach

The studies described below afford the student an opportunity to secure up-to-date knowledge about the causes of diseases in farm animals and the various measures employed in suppressing them. They also give him an appreciation of the diseases that are communicable from animals to man and a basis for understanding ways and means of safeguarding not only his flocks and herds, but also the public health.

A. Livestock Sanitation. A discussion of the common diseases of farm animals including methods for their prevention and control.

B. Poultry Sanitation. The principles of poultry sanitation and hygiene including flock management as related to disease prevention.

The University of Wisconsin

Glenn Frank, President of the University.

Chris L. Christensen, Dean, College of Agriculture.

V. E. Kivlin, Director of Short Course.

G. M. Briggs, Associate Director.

TEAR OUT AND MAIL TO THE DIRECTOR OF SHORT COURSE

APPLICATION FOR ADMISSION
TO SHORT COURSE DORMITORY

Date

To The Director of the Short Course
College of Agriculture
Madison, Wisconsin.

I hereby apply for room in the short course dormitory from
November 14, 1933 to March 10, 1934.

I have hadyears of farm experience
and amyears old. I have completed the
.....grade in school.

Should I change my address before November 1, 1933 or
should anything occur to prevent my attendance I will notify
you so that my place may be filled by another applicant.

Name

Post office State.....

Rural Route No.or Street No.

My Home County is

Dated

THE Short Course in Agriculture started in 1885 with an attendance of 19 students. Since the beginning of the Short Course there have been over 7,000 students who have taken this course. Short Course students are an important factor in developing the agriculture of the state. These boys return to their home farms with new ideas and new inspiration for the development of the home farm and the home community. They become the natural leaders in their respective neighborhoods, not only along agricultural lines but in the other things which make rural life attractive and worth while. Short Course men see the great future of agriculture.

