Winter courses in agriculture for farm boys--1926-27. [1927]

University of Wisconsin. College of Agriculture
[Madison, Wisconsin]: [University of Wisconsin, College of Agriculture], [1927]

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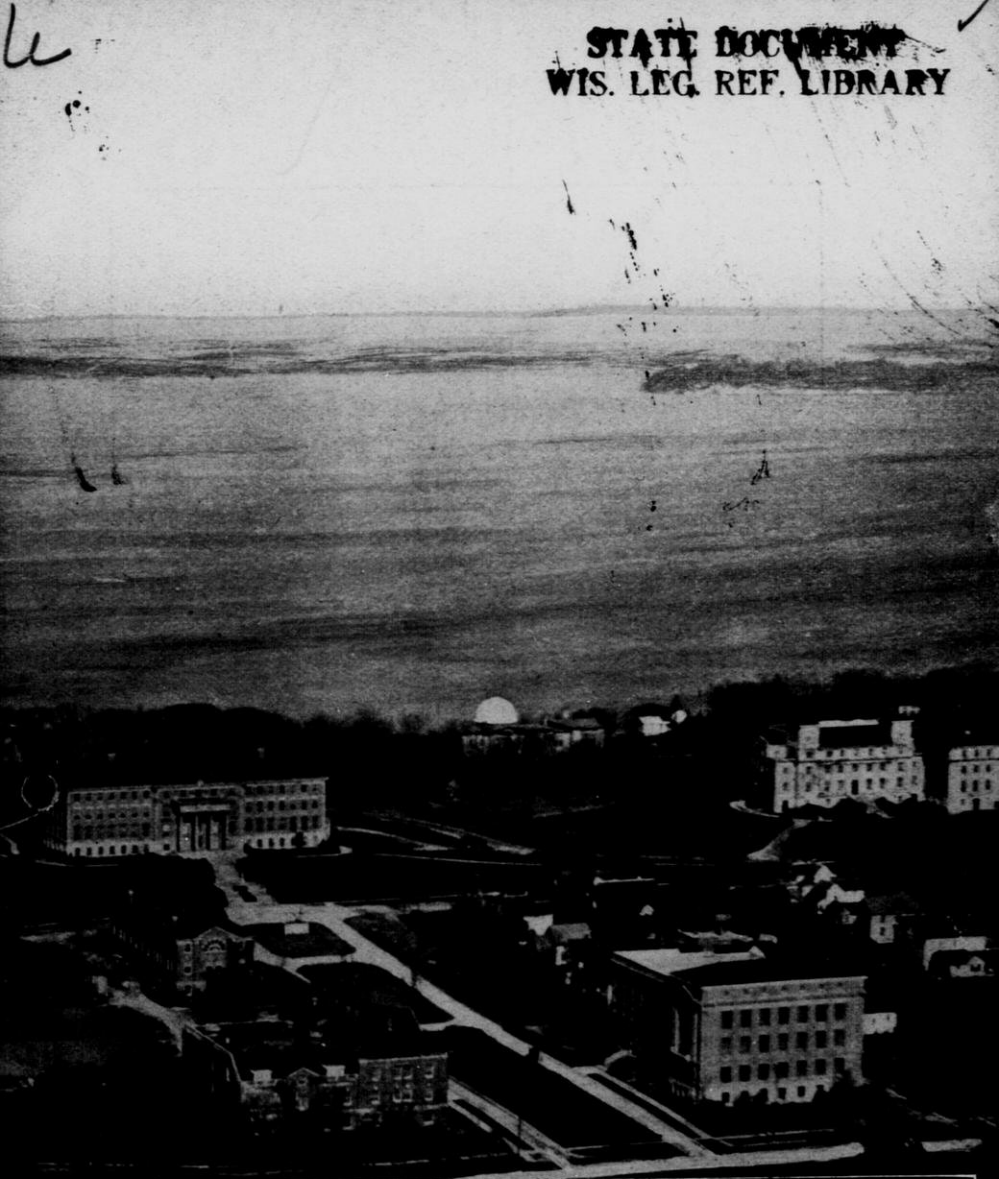


Winter Courses in Agriculture
for Farm Boys—1926-27

COLLEGE OF AGRICULTURE, UNIVERSITY OF WISCONSIN
Series No. 1385—Bulletin of the University of Wisconsin—General Series No 1161

Short Course Calendar 1926-1927

1926

Registration day	Tuesday	Nov. 16
Recitations begin	Wednesday	Nov. 17
Thanksgiving—legal holiday	Thursday	Nov. 25
Make-up examinations	Saturday	Dec. 11
Christmas recess begins	Wednesday Noon	Dec. 22

1927

Registration of new students	Wednesday	Jan. 5
Recitations of second term begin	Thursday (8 a. m.)	Jan. 6
Second term closes	Wednesday	Feb. 9
Third term begins	Thursday	Feb. 10
Livestock trip—required of second-year students	To be arranged	
Washington's Birthday—legal holiday	Tuesday	Feb. 22
Make up examinations	Saturday	Mar. 12
Third term closes	Friday	Mar. 16
Closing Day exercises	Friday	Mar. 18

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

Short Course Y. M. C. A. Officers

Winter Courses in Agriculture

WISCONSIN has been a leader in meeting the problems of agriculture in production and manufacturing of dairy products.

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. The men trained in the Dairy Course for butter making, cheese making and city milk supply have done their part to make Wisconsin a dairy state. Men of both courses recognize today the value of a course giving technical knowledge, a broadened vision of agriculture and an inspiration for the future. They are boosters for these courses. Other winter courses such as the Tractor course, and Nursery Salesman's course, have been given. This circular also describes courses for cow-testers, herdsman, seedsman, farm business, farm engineering and poultry.

Equipment Modern

The equipment of the College of Agriculture is thoroughly modern and practical. The farm 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 Winter Courses 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 Courses

The primary purpose of the Winter Courses is to train young men for the business of farming and its special jobs. That it has and is accomplishing this purpose is definitely proven in the fact that probably 95 per cent of its graduates of the Winter Courses return to the farm. This alone would justify the high esteem in which this 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. Young

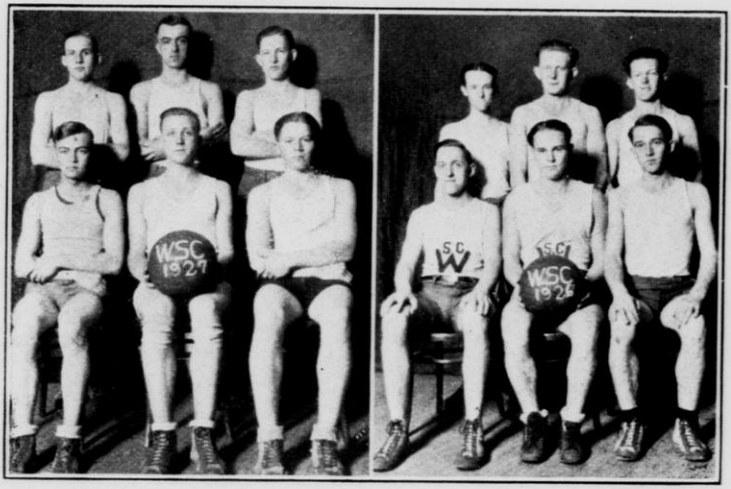
Winter Course Men Come From Every County in the State

men attend the College of Agriculture for one or more winters for the following purposes:

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



Short Course Basketball Teams

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

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

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

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

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

Most of the young men who take the winter courses realize that it offers them the supreme opportunity of their lives and they are taking advantage of that opportunity, as hav 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 home farms.

The nature of the positions which are open to Winter 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.

Herdsman, 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 Winter Courses find it to their advantage to return to the home farm. Many of them enter into partnership with their fathers.

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.

Special Work. Men are wanted for special work in dairy manufacturing and take the Dairy Course. Others strengthen their preparation in machinery, farm business, poultry and other lines and often secure positions requiring this special preparation.

Plan of Work for Winter Courses

In all courses except the dairy manufacturing courses the year consists of three terms of five weeks each. Students may enter at the beginning of any term. The course is so planned that a definite unit of work is completed during each five-week period, except in a few subjects of the second and third schedules.

The subjects of the first year schedule are required for all without high school training, but the work of the second and third year schedules is entirely elective. This provides that the persons in the second and third year schedules may select their own branches of study subject to rules of the Winter Course Committee as given below. A diploma is granted upon

The Horticultural Building

the completion of two years' work equivalent to 36 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. Library instruction is required in the first year schedule.

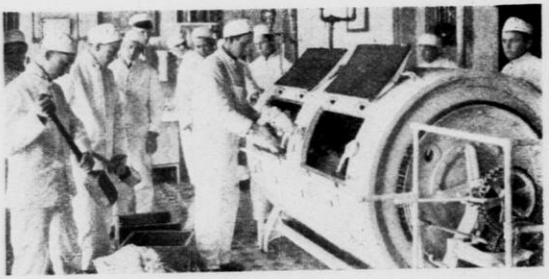
The graduate may return for his third winter and select subjects which he was unable to get in former years. In this way he will get much more nearly what the collegiate student gets in his full year period of instruction.

The 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 Winter Courses 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.

Butter-making at Dairy School



See page 16 for additional information on short unit course admission.

Persons who are graduates of high school or its equivalent may enter the Winter Courses with the privilege of selecting work from either the first, second, or third year schedules. Credit toward a Winter Course certificate will be granted for work completed in agriculture or other branches of the Winter Course in secondary schools or colleges if the work is of similar grade and quality. Thirty-six credits are required for graduation but this may be reduced by credit for work done in high school or college subjects to approval of the credits by the Winter Course Committee. At least 18 credits of Winter 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 agricul-

tural instruction may enter the second year of the Winter Courses and receive a certificate upon the completion of 18 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 Winter Courses 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 Winter Courses

In addition to regulations given in other sections of this circular the following have been adopted by the Winter Course Committee.

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

A standing of 60 or over is a passing grade.

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.

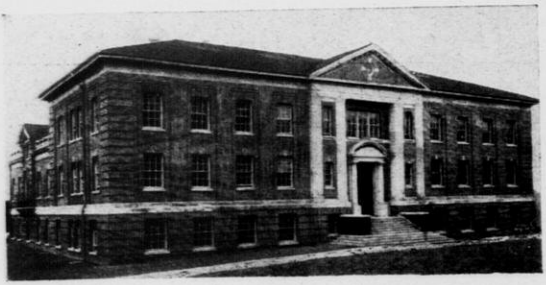
Students not in classes between 8 and 4:30 except during noon intermissions are expected to study in their rooms or in the library.

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

The minimum amount of work during any one term is 4½ 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 18 credits of work completed by graduates who return and complete additional subjects.



Agricultural Chemistry Building

In special cases where students of the Winter Courses meet the University entrance requirements for collegiate courses the Executive Committee will consider granting of credits for Winter Course subjects in which a grade of 85 per cent or more 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 Winter Courses except Dairy Manufacturing 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 1925-26:

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 require-

ments 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:

		For Residents of Wisconsin	Not Residents of Wisconsin
Total fees for 15 weeks for those entering the First Term*	Tuition	$10.00	51.67
	Incidental	2.50	10.00
	Infirmary	7.50	2.50
	Laboratory Fee	2.00	7.50
	Laboratory deposit	1.50	2.00
	Gymnasium fee		1.50
		23.50	75.17
Total fees for 10 weeks for those entering the Second Term	Tuition	6.67	34.45
	Incidental	2.00	6.67
	Infirmary	5.00	2.00
	Laboratory fee	2.00	5.00
	Laboratory deposit	1.00	2.00
	Gymnasium fee		1.00
		$16.67	$51.12
Total fees for 5 weeks for those entering the Third Term	Tuition	3.34	17.22
	Incidental	1.00	3.34
	Infirmary	2.50	1.00
	Laboratory fee	2.00	2.50
	Laboratory deposit	.50	2.00
	Gymnasium fee		.50
		$9.34	$26.56

*Courses in blacksmithing or carpentry given in the College of Engineering carry additional fees of $3 per term. Winter 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 Winter Courses on the day of withdrawal in order to secure refund.

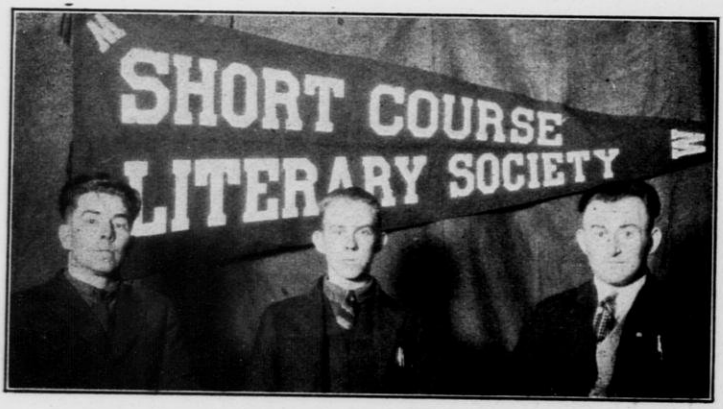
Students who drop out during one of the five week terms are refunded the entire fee for each whole term remaining and on the following basis for the partial term remaining accord-

ing 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
Willis *Wetmore* *Marek*

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 Winter 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 Winter Courses. At the weekly meetings members of the society participate in parliamentary drill,

Winter Course Orchestra

debating and public speaking. These meetings are frequently addressed by prominent agriculturists and members of the faculty. Social features are often included.

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

The Winter 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.

The Dairy Barn Group

A Winter 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.

Winter 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 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 students into their student organizations. The City Y. M. C. A. has coperated with the director in providing

several evenings of social activity. The Y. M. C. A. and Badger Club have welcomed the 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 Winter Course students. The A. C. F. Board has held a welcome, the Country Magazine, the Poultry Club, the Grafters Club, the Saddle and Sirloin, and the Ag. Triangle meetings are open to Winter 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 Winter 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 Winter Course boy. The competition is keen in the show ring and a large share of the prizes are won by the Winter Course boys.

Closing Day Exercises

Students who complete the studies of the Winter Course in a satisfactory manner will be granted Winter 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.

Winter Courses at the College of Agriculture

The General Farming Course—See page 18. This is our main course requiring two winters of 15 weeks each and 36 credits to receive the certificate. Each winter is divided into three terms. The first year is a requirement for all who are not high school graduates or have had two years of agriculture in high school or its equivalent. In the second year and extended schedule on page 19 are suggestions for those who wish to take a third winter at the College. Upon completion of the third year a special certificate is granted.

The Winter Dairy Course.—A 12 weeks' course beginning November 3 and continuing until January 27 is open to persons who have at least six months' 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 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.

Swiss Cheese Makers Short Course.—A two-week course of practical and theoretical instruction for experienced Swiss cheese makers is given during the second and third weeks in February each year, in cooperation with the Southern Wisconsin Cheesemakers' Association, and the Kaeser-Verband. Special circulars are issued describing the course. Application for admittance should be sent to the Secretary of the Association at Monroe, Wis., before January 15 so that provision can be made for all who apply.

Tractor Course.—Five or ten weeks during the Winter Courses. For information write, E. R. Jones, Agricultural Engineering Department.

Short Unit Courses

The following special courses are for 15 weeks to meet special objectives. Students wishing to take these courses must meet one of the following requirements.

(1) A graduate of a high school or its equivalent.

(2) Have completed the first year of the General Farming schedule on page 18 or its equivalent.

(3) Have had exceptional experience and be recommended by the department as a desirable person to be given the opportunity to enroll in the short unit courses without requirements listed in 1 and 2 above.

The following Short Unit courses have been arranged:

(a) **Cow-testers Course** in charge of R. T. Harris—See page 20.

(b) **Farm Business Course** in charge J. H. Kolb—See page 20.

(c) **Herdsman's Course** in charge G. C. Humphrey—See page 21.

(d) **Poultry Course** in charge J. G. Halpin—See page 21.

(e) **Farm Engineering Course** in charge E. R. Jones—See page 24.

(f) **Seedman's Course** in charge R. A. Moore—See page 22.

Extension Courses (Special circulars)

Farmers' Week in Agriculture (February)—Write K. L. Hatch

Womans' Week in Home Making (February)—Write A. L. Marlatt

Young People's Week (June)—Write T. L. Bewick

Farmers' Institutes—Write Supt. E. L. Luther

Rural Church Summer School (July)—Write J. H. Kolb

Veterinarians' Short Course (February)—Write Dr. F. B. Hadley.

The Short Course
1925-26

The Short Course
Glee Club

GENERAL FARMING SCHEDULE—FIRST YEAR

Hour	First Term Nov. 17—Dec. 22	See Page	Second Term Jan. 5—Feb. 9	See Page	Third Term Feb. 10—March 18	See Page
8-10	Farm Crops A (1) Gas Engines A (2)	28 27	Gas Engines A (2) Soil Fertility A (1)	27 35	Farm Crops A (1) Soil Fertility A (2)	28 35
10-11	Diseases of Farm Animals A	35	Poultry A	33	Farm Bacteriology	25
11-12	Farm Chemistry	25	Feeds and Feeding B	29	Plant Life A	31
	INTERMISSION					
1:30-3:30	Farm Dairying A (1) Farm Bookk'p'g A(2)	29 26	Stock Judging A (2) Farm Dairying A (1)	29 29	Stock Judging A (1) Farm Bookk'p'g A(2)	29 26
M W 3:30-5:30	Library Practice (1) Blacksmith and Carpentry*	31 34	Library Practice (2) Blacksmith and Carpentry*	31 34	Blacksmith and Carpentry*	33 34
T T 3:30-4:30	Physical Education	32	Physical Education	32	Physical Education	32
F 3:30-4:30	Parliamentary Practice	32	Parliamentary Practice	32	Parliamentary Practice	32

First year students are divided into sections (1) and (2) for certain classes as shown.
All subjects carry 1½ credits except Blacksmith, Carpentry and Library which are 1 credit. Physical Education and Parliamentary Practice carry no credit.
*A laboratory fee of $3 extra is charged for 5 weeks.

GENERAL FARMING COURSE—SECOND YEAR AND EXTENDED SCHEDULE

8-9	Feeds and Feeding C---	29	Feeds and Feeding C x--	29	Farm Management E *	26
9-10	Diseases of Farm Animals B*----------	35	Rural Institutions D----	26	Marketing C----------	26
			Farm Mech. & Conv. E*	27		
8-10	Farm Economics B ----	26		54	Farm Buildings F*-----	27
					Swine Management G --	29
10-12	Dairy Cattle Judg. & Mgt. D----------	29	Sheep & Beef Judg. & Mgt. E----------	29	Cow-testing Assoc. H --	29
	Farm Machinery B*----	27	Potatoes C----------	31	Farm Tractors D------	27
			Farm Tractors D*------	27	Adv. Gas Engines G*---	27

INTERMISSION

1:30-3:30	Forage Crops (1 hr) B* -	28	Market.Poult.Prod. C* -	26	Incubation & BroodingD	34
	Horticultural Practice B	31	Pure-bred Seed Prod. C-	28	Adv. Farm Dairying B--	30
	Poultry Judging B------	34	Cow-testing Assoc. H --	29	Seed & Weed Control D*	28
	Land Drainage C*------	27	Beekeeping B*---------	30	Farm Woodlot & Grounds D*----------	31
3:30-4:40	Farm Advertising------	26	Farm Advertising x-----	26	Soil Management B-----	35
3:30-5:50 M W	Horse Judg. & Mgt. I*--	29	Adv. Dairy Cattle & Mgt. F*----------	29	Plant Diseases & Cont.*	33
3-30 F —	Blacksmith & Carpentry------ ----------	34	Blacksmith & Carp.†----	34	Blacksmith & Carpentry†----------	34
	Farm Insects & Control A----------	30	Farm Insects & Control A x----------	30		
4:30 T T	Phys. Ed.**-Orchestra	32	Phys. Ed.**=Orchestra	32	Phys. Ed.**-Orchestra -	32
	Glee Club----------	16	Glee Club----------	16	Glee Club----------	16
4:30** F	Parliamentary Practice -	32	Parliamentary Practice -	32	Parliamentary Practice -	32

xStarts first term and cannot be elected unless first term was completed.
—1 credit courses—all other courses 1½ credits.
**Required of all first and scond year students without credit.
†A laboratory fee of $3 extra is charged for each 5 weeks.
*PREFERABLY DEFERRED TO THIRD YEAR BY THOSE CONTEMPLATING THIRD YEAR AT THE COLLEGE.

COW TESTERS COURSE*

Hour	First Term Nov. 17—Dec. 22	See Page	Second Term Jan. 5—Feb.9	See Page	Third Term Feb. 10—March 18	See Page
8-9	Feeds & Feeding	29	Feeds & Feeding C	29	Farm Management E	26
9-10	Disease of Farm Animals B	35	Elective	12	Marketing C	26
10-12	Dairy Cattle Judging and Management D	29	Elective	12	Farm Bacteriology	25
			INTERMISSION			
1:30-3:30	Farm Dairying A	29	Cow-testing Assoc. H	29	Adv. Farm Dairy B	30
3:30	Farm Advertising	26	Farm Adv. or Adv. Dairy Cattle Mgt. F	29	Elective	10

*For entrance see page —.

FARM BUSINESS COURSE*

8-9	Feeds & Feeding	29	Feeds & Feeding	29	Farm Management E	26
9-10	Farm Economics B	26	Rural Institutions D	26	Marketing C	26
10-12	Electives	15	Elective	11	Cow-testing Assoc. H	29
			INTERMISSION			
1:30-3:30	Elective	11	Pure-bred Seed Prod. C	28	Farm Woodlot & Grds D	31
3:30	Farm Advertising	26	Farm Advertising	26	Soil Management B	35

*For entrance see page 16.

HERDSMAN'S COURSE*

8-9	Feeds & Feeding C	29	Feeds and Feeding C	29	Swine Judging and Management G	29
					or	
9-10	Disease of Farm An. B	35	Elective	14	Elective	15
10-12	Dairy Cattle Judging Management D	29	Sheep & Beef Judging & Management E	29	Cow-testing Assoc. H or Elective	29
	INTERMISSION					
1:30-3:30	Forage Crops B or Elective	28	Cow Testing Assoc. H.or Elective	29	Adv. Farm Dairying B or Elective	30
3:30	Farm Advertising	26	Adv. Dairy CattleMgt.F	29	Soil Management B	35

*For entrance see page —.

POULTRY COURSE*

8-9	Feeds & Feeding C	29	Feeds & Feeding C	29	Farm Building F	27
9-10	Farm Economics B	26	Elective	12	Marketing C	26
10-12	Dairy Cattle Judging & Mgt. D	29	Elective	12	Elective	12
	INTERMISSION					
1:30-3:30	Poultry Judging B	34	Market. Poultry Prod.C	34	Incubation & BroodingD	34
3:30	Farm Advertising	26	Farm Advertising	26	Elective	11

*For entrance see page 16.

FARM ENGINEERING COURSE*

Hour	First Term Nov. 17—Dec. 22	See Page	Second Term Jan. 5—Feb. 9	See Page	Third Term Feb. 10—March18	See Page
8-10	Gas Engines A	27	Farm Mech. & Conv. E	27	Farm Buildings F	27
10-12	Farm Machinery B	27	Farm Tractors D	27	Adv. Gas Engines G	27
			INTERMISSION			
1:30-3:30	Land Drainage C	27	Elective	12	Farm Woodlot and Grounds D	31
3:30-5:30 M-W-F	Blacksmithing and Carpentry or Elective	34 11	Blacksmithing and Carpentry or Elective	34 12	Blacksmithing and Carpentry or Elective	34 11

*For entrance see page —.

SEEDSMAN'S COURSE*

8-10	Farm Crops A or Elective	28	Soil Fertility or Elective	35 11	Farm Buildings F	27 11
10-12	Farm Machinery B	27	Potatoes C	31	Elective	11
			INTERMISSION			
1:30-3:30	Forage Crops (1 hr.) B	28	Pure-bred Seed Prod. C	28	Seed & Weed Control D	28
3:30-5:30	Farm Insects and Control A or Farm Advertising	30 26	Elective or Farm Advertising	26	Plant Diseases and and Control	33

*For entrance see page —.

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 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. 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 manure, the sources, composition and use of commercial fertilizers and the chemistry of common insecticides and fungicides. Attention is also given to the elements of soil fertility involved in milk production and to fertility value of dairy by-products.

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

Agricultural Economics

PROFESSORS HIBBARD, KOLB, MCNALL; INSTRUCTORS SCHAARS, WILEDEN; ASSISTANT ELLIS

The studies given are designed to give the student an appreciation of the entire business aspects of farming by showing the general economic questions facing agriculture, the value of keeping accurate accounts and managing farms for economical production, the importance of effective merchandising methods applied to marketing agricultural products, and the consummation of all this effort in possible better rural standards of home and community life.

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. Ellis.

B. **Farm Economics.** This course will consist of lectures and discussions which deal with subjects with which the farmers are in constant contact; how prices are made, the farmers' purchasing power, farm labor, farm credit, farm tenancy and leases. Mr. Hibbard and assistant.

C. **Marketing.** This course includes a study of necessary marketing services, agencies, and methods; an analysis of merchandising principles applied to agriculture, 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 economical production, quality products, efficient and effective marketing, and better rural social life is pointed out. 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. The various local social institutions are given special attention. Mr. Wileden and Mr. Kolb.

E. **Farm Management.** To show the student how the various farm operations may be organized and correlated os 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 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.

Agricultural Engineering

PROFESSORS E. R. JONES, (SWENEHART); ASSOCIATE PROFESSOR DUFFEE; INSTRUCTOR MACLEISH

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.

Special tractor courses of five or ten weeks are 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 to the Agricultural Engineering department.

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. MacLeish.

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.

Gas Engines are Problems

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

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. Swenehart.

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. Mr. Duffee.

Agronomy

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

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

Breeding Wisconsin Purebred Grains

B. **Forage Crops.** A discussion of the best methods and practices in sowing, handling, and improving alfalfa, soybeans and other hay and grain crops for forage. Mr. Moore, Mr. Graber.

C. **Pure-bred Seed Production.** A study of types, judging, breeding, improving, and marketing of 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 thte state.

A. **Elementary Stock Judging.** Score card practice and textbook work

in the study of market classes and breeds of livestock. Mr. Humphrey, Mr. Rupel.

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. **Advanced Dairy Cattle Judging and Management.** A continuation of course D. Mr. Rupel.

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.

The Dairy Building

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, selling of milk and cream, dairy laws, and other advanced farm dairy operations. Mr. Thomsen.

Economic Entomology

PROFESSOR WILSON; ASSISTANT PROFESSOR FLUKE; INSTRUCTOR MARVIN

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. Marvin.

Horticulture

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

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.** A study of the structure of plants, their life processes, and methods of reproduction,—and their relation to the practices employed in crop production. Mr. Filinger.

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 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 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 will be emphasized.

Individual laboratory work aims 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.

Incubator 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 DORRANS: (Superintendent of Shops) INSTRUCTORS SCHUMANN, PETERS, TICE

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, step ladder, 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. Tice.

Sports on Ice

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, soldering and brazing. Mr. Schuman 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. Tice.

D. **Advanced Farm Work.** A continuation of first year work, including ...

POST CARD

THIS SPACE FOR THE ADDRESS ONLY

TWO CENT STAMP HERE

DIRECTOR OF SHORT COURSE

College of Agriculture

Madison

Wisconsin

WISCONSIN

International

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

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.

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 16, 1926. 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 .....

Sports on Ice

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, soldering and brazing. Mr. Schuman 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. Tice.

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; relation 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, to acquaint students with the normal structure and functions of the animal body. Mr. Alexander.

The Wisconsin International

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