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Winter courses in agriculture for farm boys--1929-30. [1930]

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**Winter Courses in Agriculture
for Farm Boys
—1929-30**



SHORT COURSE CALENDAR

1929-1930

1929

Registration day	Wednesday	Nov. 13
Recitations begin	Thursday	Nov. 14
Thanksgiving—legal holiday	Thursday	Nov. 28
Make-up examinations	Saturday	Dec. 7
Christmas recess begins	Thursday night	Dec. 19

1930

Registration of new students	Thursday	Jan. 2
Recitations of second term begin	Thursday noon	Jan. 2
Second term closes	Saturday	Feb. 8
Third term begins	Monday	Feb. 10
Livestock trip—required of second year students	to be arranged	
Washington's birthday—legal holiday	Saturday	Feb. 22
Make-up examinations	Saturday	Mar. 8
Third term closes	Friday	Mar. 14
Closing day exercises	Friday	Mar. 14

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Short Course Y. M. C. A. and Social Group 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 it 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

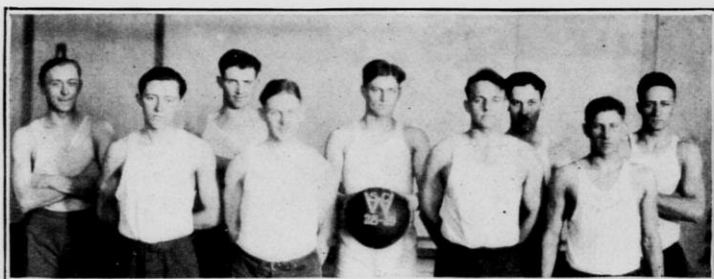
The equipment of the College of Agriculture is thoroughly modern and practical. The farm buildings stand for the best types of farm architecture and the ideas represented in their construction can be adapted readily to the average farm. For years attention has been given to obtaining breeds of livestock 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.

(1) **To secure a wider vision of the importance of agriculture** as a life's vocation and to see 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.



Short Course Basketball Team

(3) **To study the problems in successful farm management** including the co-operative buying of supplies and marketing of farm crops, the employment of labor and the organization of the farm as a business enterprise.

(4) **To find greater interests in rural life**, to realize the possibilities and opportunities of the farm as a social factor and its relations to the community and society, and to have 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 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 a season of the year when the work on the farm is the least pressing** and to secure the advantages of the College of Agriculture to you who are unable to complete a longer course.

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

Most of the young men who take the winter courses realize that it offers them the supreme opportunity of their lives and they are taking advantage of that opportunity, as have those who have graduated before them, to become the seedsmen, the breeders of better livestock, and above all, the home-builders of the state.



Short Course Debating Society

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 labor. The opportunity for farm positions on general farms other than the home farm, is exceptionally good. These positions pay experienced men from \$50 to \$85 a month with board.

Herdsmen Foremen. Many enterprising and successful farmers need trained men to assume the responsibility of the man-

agement 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. Exceptional opportunities for men with experience and Short Course training are frequent.

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.



The Horticultural Building

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 graduation for all who are not high school graduates, but the work of the second and third year schedules is entirely elective. This provides that the person 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 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

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.

See page 25 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 in high 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 subject 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 high schools who have had two or more years of agriculture and others with equivalent training in agriculture from county agent short courses and county schools of agriculture, may complete the course in less than two winters of 15 weeks each. The maximum credit granted for this work will be 18 credits and the amount of credit will depend upon the number of years of agriculture, the quality of instruction, projects and equipment, of the institution where the agriculture was taken.

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 schedule 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.



Agricultural Chemistry Building

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

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

Certificates may be given for each 18 credits of work completed by graduates who return and complete additional subjects.

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.

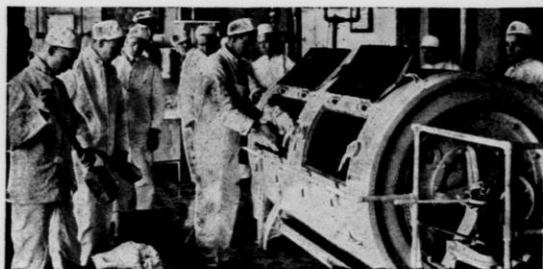
Expenses

The expenses of the Winter Course 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 1928-29:

Room—average price of \$3 per person	
per week	\$45.00 per year
Board—average of \$6.50 per week ..	\$97.50
Books—supplies, etc., and miscellaneous	\$25.00

Room and Board. The expenses for room and board depend on the requirements of the individual and his willingness to room at a distance from the college section. Two or



Buttermaking at Dairy School

more students taking a room or suite of rooms materially lessen the expenses. 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. Students when located in a rooming house shall not move to another home, without the consent of the Director of the Short Course. Any dissatisfaction with rooms should be discussed with the director. The total expenses will vary from \$150 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 -----	51.67
	Incidental and Memorial Union \$11.00	11.00
	Infirmary ----- 2.50	2.50
	Laboratory Fee ----- 7.50	7.50
	Laboratory deposit ----- 2.00	2.00
	Gymnasium fee ----- 1.50	1.50
	\$24.50	\$76.17
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
	Gymnasium fee ----- 1.00	1.00
	\$17.67	\$52.12
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
	Gymnasium fee ----- .50	.50
	\$10.34	\$27.56

*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.



The Agronomy Building

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 refunds.

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 partial term remaining according to the time of withdrawal: 75 per cent if during the first week of the term, and 50 per cent if during the second week of the term. After the second week, no refund is issued for that term.

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

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

Articles from Home. Students will need overalls and jacket and these may be brought from home. Rubber-soled shoes, such as tennis shoes, light sweaters or jerseys are at times needed in physical education work. Physical educa-

tion is required of all. A light gymnasium suit is required and a regulation gymnasium towel may be purchased in Madison. Laundry for gymnasium suit 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 Tuesday night by the students in the Winter Courses. At the weekly meet-



Winter Course Orchestra

ings members of the society participate in parliamentary drill, debating and public speaking. These meetings are frequently addressed by prominent agriculturists and members of the faculty. Social features are often included.

A special feature in the nature of an oratorical contest, plays 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 as for the Literary Society. Be sure to bring your musical instrument if you have had some experience.

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



Short Course Glee Club

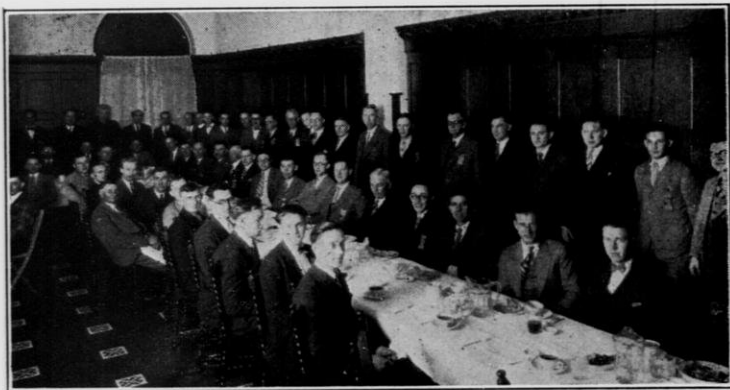
Winter Course Y. M. C. A. The students have their own organization and are assisted by the university Y. M. C. A. A series of Sunday morning meetings and Bible study groups for students are held during the winter. A series of luncheons with discussions and social hour, with opportunity to meet out-standing people of the city and University is one of the activities of this organization. Students of this or-

ganization 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. W. C. A. has co-operated 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 Country Magazine, the Poultry Club, the Grafters Club, the Saddle and Sirloin, 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.



Cow-testers' Banquet (Mostly Short Course Students)

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 Exercise

Students who compete 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 and 19. 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 its equivalent. In the second year and extended schedule on page . . . 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 Manufacturers Course.—A 12 weeks' course beginning the first week in November and continuing until the latter part of January is open to persons who have had 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 H. C. Jackson, Dairy Department.

The Summer Dairy Manufacturers Course.—Is intended for beginners or those having little practical knowledge of creamery or dairy work. Students are admitted at any time

GENERAL FARMING SCHEDULE—FIRST YEAR

Hour	First Term Nov. 12—Dec. 19	See Page	Second Term Jan. 2—Feb. 9	See Page	Third Term Feb. 10—March 14	See Page
8-10	Farm Crops A (2)	30	Gas Engines A (2)	32	Farm Crops A (1)	30
	Gas Engines A (1)	32	Soil Fertility A (1)	37	Soil Fertility A (2)	37
10-11	The Animal in Health A ...	37	Feeds and Feeding B	31	Plant Life A	33
11-12	Farm Chemistry	27	Farm Bacteriology	27	Poultry A	35

INTERMISSION

1:30-3:30	Farm Dairying A (2)	32	Stock Judging A (2)	31	Stock Judging A (1)	31
	Farm Bookk'p'g A (1)	28	Farm Dairying A (1)	28	Farm Bookk'p'g A (2)	28
M W	Library Practice (1)	34	Library Practice (2)	34	Blacksmithing and Carpentry*	36
3:30-5:30 F 4:30-5:30	Blacksmithing and Carpentry*	36	Blacksmithing and Carpentry*	36		
T T 3:30-4:30	Physical Education	34	Physical Education	34	Physical-Education	34
F 3:30-4:30**	Parliamentary Practice	35	Parliamentary Practice	35	Parliamentary Practice	35

First year students are divided into section (1) and (2) for certain classes as shown.

All subjects carry 1½ credits except Blacksmithing, 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

Hour	First Term Nov. 12—Dec. 19	See Page	Second Term Jan. 2—Feb. 9	See Page	Third Term Feb. 10—March 14	See Page
8-9	Feeds and Feeding C	31	Feeds and Feeding C x	31	Farm Management E	28
9-10	The Animal in Disease B	37	Rural Community Organizations	28	Marketing C	28
	Farm Advertising	29	Farm Mech. & Conv. E	29		
8-10			Farm Advertising x	29	Farm Buildings F	29
					Swine Management G	31
10-12	Dairy Cattle Judg. & Mgt. D	31	Beef & Sheep Judg. & Mgt. E	31	Cow-testing Assoc. H	31
	Land Drainage C	29	Potatoes C	33	Farm Tractors D	29
			Farm Tractors D	29	Rural Electrification G	29

INTERMISSION

1:30-3:30	Forage Crops B	30	Poultry Production C	36	Incubation & Brooding D ..	36
	Horticultural Practice B ...	33	Pure-Bred Seed Prod. Co.....	30	Farm Dairying A	31
	Poultry Judging B	36	Cow-testing Assoc. H	31	Seed & Weed Control D	30
	Farm Machinery B	29	Beekeeping B	32	Home Grounds Improvement	33
3:30-4:40	Farm Economics B	28			Soil Management B	37
	Horse Judg. & Mgt. I	32	Adv. Dairy Cattle & Mgt. F	31	Plant Diseases & Cont.	35
3:30-5:50 M W 3-30 F †	Blacksmith & Carpentry ...	36	Blacksmith and Carpentry †	36	Blacksmith and Carpentry †	36
	Farm Insects and Control A	32				
	Cow-Testing Assoc. H*	31				
4:30 T T	Phys. Ed.** Orchestra	34	Phys. Ed.**-Orchestra	34	Phys. Ed.**-Orchestra	34
	Glee Club	15	Glee Club	15	Glee Club	15
4:30**F	Parliamentary Practice	35	Parliamentary Practice	35	Parliamentary Practice	35

xStarts first term and cannot be elected unless first term was completed.

†1 credit course—all other courses 1½ credits.

**Required of all first and second year students without credit.

**Required of all first and second year students without credit.

†A laboratory fee of \$3 extra is charged for each 5 weeks.

*Especially for Cow-testers five weeks course—meets 3:30-5:30 M.W.F. and 3:30-4:30 T.T.



THE SHORT



COURSE—1926-27

FARM ENGINEERING COURSE*

Hour	First Term Nov. 12—Dec. 19	See Page	Second Term Jan. 2—Feb. 9	See Page	Third Term Feb. 10—March 14	See Page
8-10	Gas Engines A	28	Farm Mech. & Conv. E	29	Farm Buildings F	29
10-12	Farm Machinery B	29	Farm Tractors D	29	Rural Electrification G	29

INTERMISSION

1:30-3:30	Land Drainage C	29	Elective		Home Grounds Imp't D ...	33
3:30-5:30 M W F	Blacksmithing and Carpentry or Elective	36	Blacksmithing and Carpentry or Elective	36	Blacksmithing and Carpentry or Elective	36

*For entrance see page 25.

SEEDMAN'S COURSE*

8-10	Farm Crops A or Elective	30	Soil Fertility or Elective	37	Farm Buildings F	29
10-12	Farm Machinery B	29	Potatoes C	33	Electives	

INTERMISSION

1:30-3:30	Forage Crops (1 hr.) B	30	Pure-bred Seed Prod. C	30	Seed & Weed Control D	30
3:30-5:30	Farm Insects and Control A	32	Elective		Plant Diseases and Control	35

*For entrance see page 25.

COW TESTERS COURSE*‡

Hour	First Term Nov. 12—Dec. 19	See Page	Second Term Jan. 2—Feb. 9	See Page	Third Term Feb. 10—March 14	See Page
8-9	Feeds and Feeding	31	Feeds and Feeding C	31	Farm Management E	28
9-10	The Animal in Disease B ...	38	Elective		Marketing C	28
10-12	Dairy Cattle Judging and Management D	31	Farm Bacteriology	27	Elective	

INTERMISSION

1:30-3:30	Farm Dairying A	32	Cow-testing Assoc. H	31	Elective	
3:30	Farm Economics B.....	28	Farm Adv. or Adv. Dairy Cattle Mgt. F	31	Elective	

FARM BUSINESS COURSE*

8-9	Feeds and Feeding	31	Feeds and Feeding	31	Farm Management E	28
9-10	Farm Advertising	29	Rural Community Organization D	28	Marketing C	28
10-12	Electives		Cow-testing Assoc. H	31	Elective	

INTERMISSION

1:30-3:30	Elective		Pure-bred Seed Prod. C	30	Home Grounds Imp't D	33
3:30	Farm Economics B	28	Elective		Soil Management B	37

*For entrance see page 25.

‡For high school graduates or persons who have completed the first year of the short course. See five weeks' special cow-testers' course on page 26.

HERDSMAN'S COURSE*

Hour	First Term Nov. 12—Dec. 19	See Page	Second Term Jan. 2—Feb. 9	See Page	Third Term Feb. 10—March 14	See Page
8-9	Feeds and Feeding C	31	Feeds and Feeding C	31	Swine Judging and Management G	31
9-10	The Animal in Disease B	38	Elective		Elective	
10-12	Dairy Cattle Judging Management D	31	Beef & Sheep Judging & Management E	31	Cow-testing Assoc. H or Elective	31

INTERMISSION

1:30-3:30	Forage Crops B or Dairy A	30	Cow Testing Assoc. H	31	Elective	31
3:30	Economics B	28	Adv. Dairy Cattle Mgt. F ..	31	Soil Management B	37

*For entrance see page 25.

POULTRY COURSE*

8-9	Feeds and Feeding C	31	Feeds and Feeding	31	Farm Buildings F	29
9-10	Farm Advertising	29	Farm Advertising	29	Marketing C	28
10-12	Dairy Cattle Judging and Mgt. D	31	Elective		Elective	

INTERMISSION

1:30-3:30	Poultry Judging B	36	Poultry Production C	36	Incubation & Brooding D	36
3:30	Elective		Elective		Elective	

*For entrance see page 25.

during the spring and summer after March 1. For particulars address H. C. Jackson, Dairy Department.

Swiss Cheese Makers Short Course.—A two weeks' course of practical and theoretical instruction for experienced Swiss cheese makers is given during the second and third weeks in February each year, in co-operation 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., or to H. C. Jackson, Dairy Department at Madison, 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. Such enrollments shall be arranged by correspondence with the Director before the day of enrollment for the Short Course.

The following Short Unit courses have been arranged:

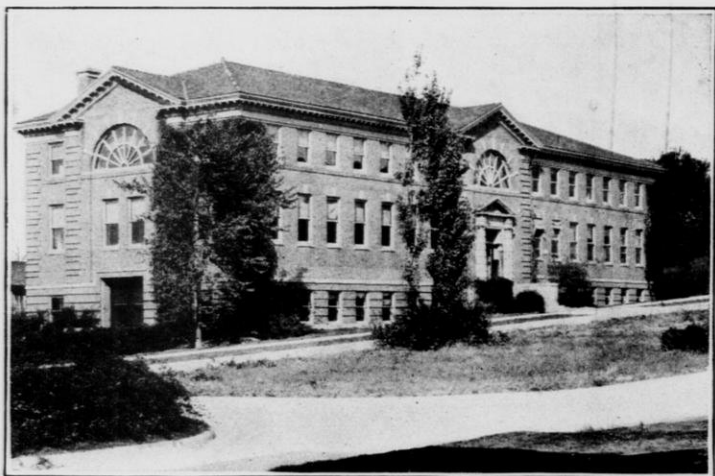
- (a) **Cow-testers Course** in charge of R. T. Harris—See page 23.
- (b) **Farm Business Course** in charge J. H. Kolb—See page 23.
- (c) **Herdsmen's Course** in charge G. C. Humphrey—See page 24.
- (d) **Poultry Course** in charge of J. G. Halpin—See page 24.
- (e) **Farm Engineering Course** in charge E. R. Jones—page 22.

- (f) **Seedman's Course** in charge R. A. Moore—See page 22.
- (g) **Cow-testers' Course (Special)** A five weeks cow-testers' course during the first term is given for high school graduates. The following subjects are given: Feeds and Feeding C, The Animal in Disease B, Dairy Cattle Judging and Management D, Farm Dairying A, and Cow-testing Association H. It is recommended that the fifteen weeks course be taken by as many as can possibly do so. Persons not high school graduates will be refused entrance unless they have unusual dairy experience and have received permission to enter, before coming to Madison, of Assistant Dean J. A. James of the College of Agriculture. Such persons should write early to give time for consideration of special cases.

Extension Courses (Special circulars)

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

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



The Agricultural Engineering Building

Young People's Week (June)—Write T. L. Bewick.
Farmer's Institutes—Write Supt. E. L. Luther.
Rural Church Summer School (July)—Write J. H. Kolb.
Veterinarian's Short Course (February)—Write Dr. F. B. Hadley.

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. 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

ASSOCIATE PROFESSOR TOTTINGHAM

Farm Chemistry. This course is designed to show the exchange of the elements of soil fertility in farming. The subjects discussed are: processes of plant growth in relation to the soil and air; digestion and use of food by the animal; nature and use of commercial fertilizers and of fungicides and insecticides.

Special attention is given to the relative conservation of fertility in various types of farming with emphasis upon the handling of manure. Demonstrations of selected chemical constituents and processes are given with the aim of interpreting Agricultural Chemistry in the language of farm practice.

Agricultural Economics

PROFESSORS KOLB, McNALL; INSTRUCTORS NELSON;
ASSISTANT BELL

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. Bell.

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. Wehrwein.

C. Marketing. This course includes a study of necessary marketing services, agencies, and methods; and 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. Bakken.

D. Rural Community Organization. Social and economic relations of farm home and community are studied together with numerous methods for their improvement. Various local social institutions such as school, club, store, church, and library are given special attention. Particular emphasis is also given to types of farmers' clubs and community organizations, with suggestions and plans for making them a success. Mr. Kolb and Mr. Nelson.

E. Farm Management. To show the student how the various farm operations may be organized and correlated so the entire farm may be handled successfully and economically. The location and size of the farm and its adaptability to the raising of crops and livestock, the layout of the farm, the capital and equipment necessary for the various types of farming and the problem of farm help. Mr. McNall.

Agricultural Engineering

PROFESSOR E. R. JONES; ASSOCIATE PROFESSORS
DUFFEE, SCHAENZER

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.

Attention is called to the special grouping of courses on page 22 to permit intensive training in agricultural engineering. 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.

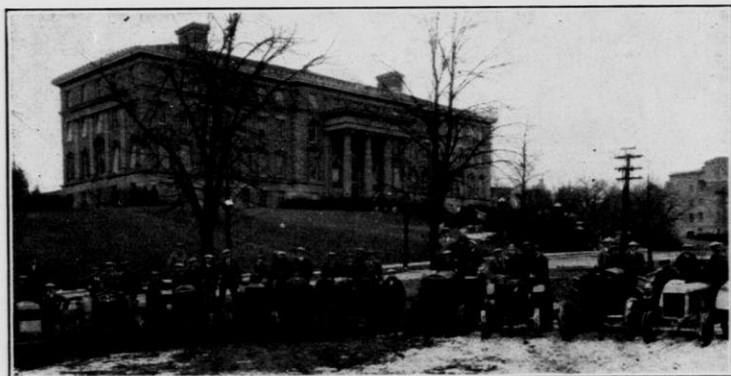
Fuel consumption tests. Trouble finding and remedy. Mr. Duffee and assistant.

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

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. One or two hours a day. 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. 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.



Practice With Different Tractors

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. Jones.

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

Agricultural Journalism

ASSOCIATE PROFESSOR SUMNER

Farm Advertising. Salesmanship is needed on the progressive farm. The farm name, the farm letterhead, the classified advertisement, display and sales advertisements, sales letters,

catalogs, and auction posters are some of the mediums which will be studied. Mr. Sumner.

Agronomy

PROFESSORS MOORE, GRABER; ASSOCIATE PROFESSORS LEITH, WRIGHT; ASSISTANT PROFESSORS STONE, 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. Mr. Wright, Mr. Leith.



Breeding Wisconsin Purebred Grains

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. 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 DARLOW AND FARGO; INSTRUCTOR RUPEL; ASSISTANTS O. J. DELWICHE, WERNER, MARSHALL, HARRIS, AND CRAMER

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

A. Elementary Stock Judging. Score card practice and textbook work in the study of market classes and breeds of livestock. Mr. Fargo, Mr. Rupel.

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



The Dairy Barn Group

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.

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

E. Beef Cattle and Sheep Judging and Management. Mr. Fuller, Mr. Darlow.

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

G. Swine Judging and 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 de-

veloping 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 JACKSON; INSTRUCTOR THOMSEN

In farm dairying, students receive instruction in the general principles which are involved in the production, testing, and handling of milk and cream at farms for city markets, creameries, condenseries, and cheese factories, 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 separations, churns, butter workers, milk coolers, and others appliances of the dairy.

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

Horticulture

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

The horticulture 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. Fundamentals of Plant Life. A study of the structure of plant, their life processes, and methods of reproduction—and their relation to the practices employed in crop production. Mr. Finch.



A Study of Potatoes

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. 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.

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 convenient references for the busy farmer. Mr. Hean.



Studying in the Library

Physical Education

A. L. MASLEY 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 developmental exercises, athletics, recreational games, boxing, and swimming under capable direction. An opportunity for voluntary exercises and for the organization of basketball and other teams and the holding of athletic contests between classes will be given. All activities are carried on in the Men's Gymnasium. The course is closed by a suitable demonstration or contest between teams representing the first and second year classes.

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.

Plant Pathology

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. 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 measure and their application are 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. E. HOLMES; 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. A general survey lecture course in which the problems of the various phases of poultry raising are

studied. Brief consideration is given to feeding hens for winter egg production; culling and selection for egg production; artificial incubation and brooding and market eggs and poultry. Mr. Halpin and 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 Poultry Products. Feeding, housing, and managing the flock for egg production; methods of sanitation. Candling, grading and packing market eggs; producing quality in market poultry; systems of marketing poultry products. Mr. Halpin and Mr. Holmes.

D. Incubation and Brooding. Laboratory work consisting in the actual operation of incubators. 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. Holmes and Mr. Johnson.

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.

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. Instructions in hardening, tempering, drilling, riveting, soldering and brazing. Mr. Schumann and Mr. Peters.

C. Advanced Carpentry. More advanced work to suit the needs of the individual student. The construction of stairs, window and door frames, the making of models of houses, barns, and portable pens, 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

ASSOCIATE PROFESSORS GRAUL, RICHARDS

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. Graul.



Soil Testing Laboratory

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. Emphasis will be placed on planning soil improvement and maintenance programs on farms of various types. Mr. Richards.

Veterinary Science

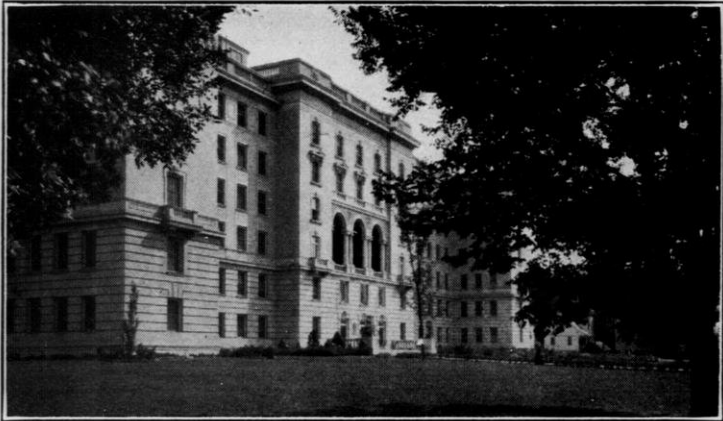
PROFESSOR A. S. ALEXANDER

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.

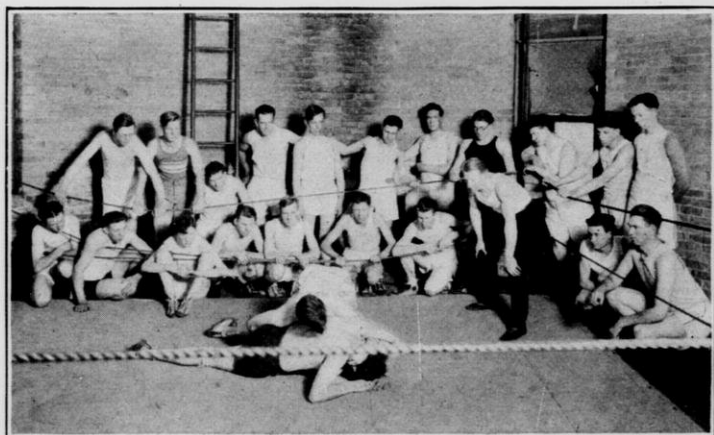
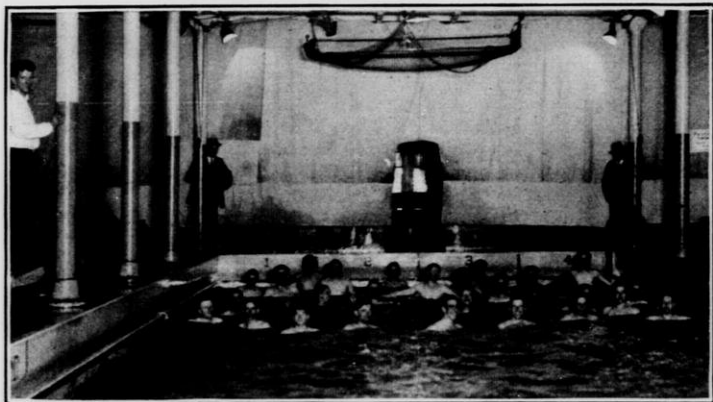
B. The Animal in Disease. The causes, symptoms, and methods of preventing the common diseases of farm animals are explained, to enable students to recognize diseases and unsoundness and give first aid treatment. Mr. Alexander.



Short Course Literary Society Officers



To Provide for Best Medical Attention and Hospital Care the University Has This Institution.



Physical Education of the Short Course at the
University Gymnasium

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 13, 1929. I have hadyears experience on a farm.

Should I change my address before November 13 or should any thing 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 OfficeState

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

Home County

Dated



*Why not put this emblem on your barn or gate with
white background and cardinal letters?*

Let someone else share this circular with you.

When you have finished reading it, pass it on.