The short course in agriculture: 1920-21. 1920

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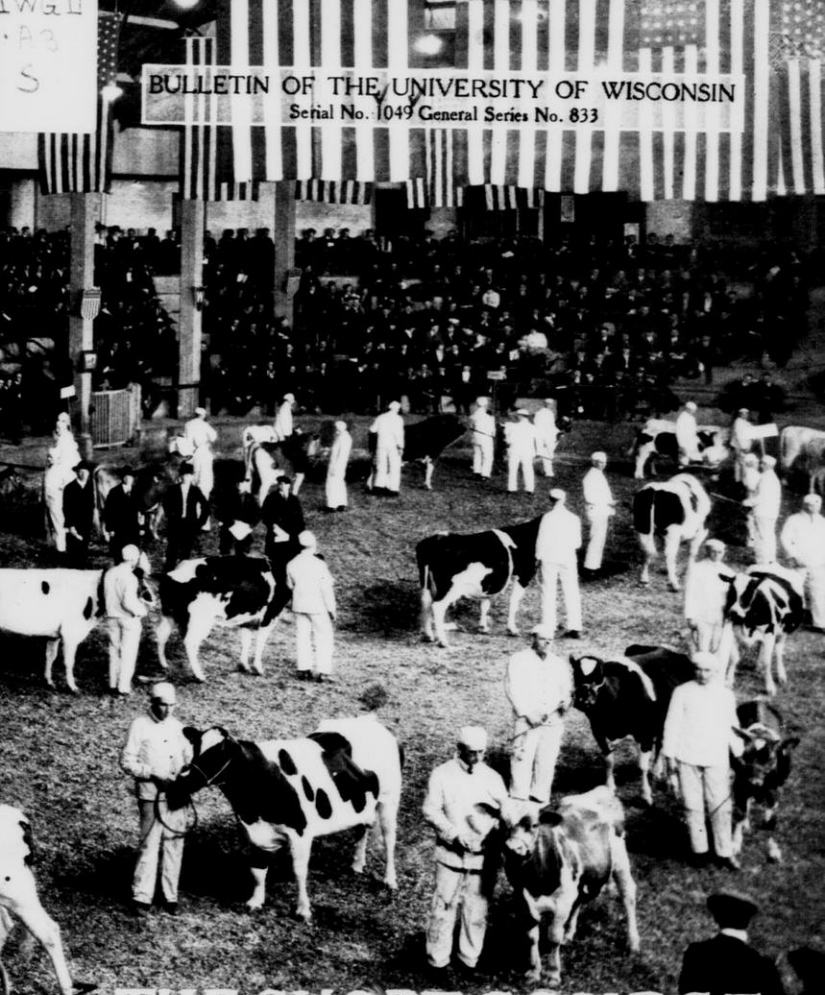


THE SHORT COURSE IN AGRICULTURE 1920-21

THE COLLEGE OF AGRICULTURE
OF THE
UNIVERSITY OF WISCONSIN
Published by the University
July, 1920

SHORT COURSE CALENDAR 1920-21

Registration days	Mon.-Tues.	Nov. 8-9
Recitations begin	Wed.	Nov. 10
Thanksgiving Day—legal holiday	Thurs.	Nov. 25
Make-up examinations	Sat.	Dec. 11
First term closes		
Christmas recess begins	Thurs. (12 m.)	Dec. 16
Registration of new students	Mon.	Jan. 3
Recitations of second term begin	Tues. (8 a. m.)	Jan. 4
Make-up examinations	Sat.	Jan. 29
Second term closes	Tues.	Feb. 8
Third term begins	Wed.	Feb. 9
Livestock trip—required of second-year students	Tues.-Wed.	Feb. 22-23
Washington's Birthday—legal holiday	Tues.	Feb. 22
Make-up examinations	Sat.	Mar. 12
Third term closes	Thurs.	Mar. 17
Closing Day exercises	Thurs.	Mar. 17

THE SHORT COURSE IN AGRICULTURE

The Short Course in Agriculture was established in 1885 and has been since that time an important factor in the agricultural development of the state. Among its graduates are many of Wisconsin's most successful farmers. These men recognize today the value of the course in giving technical knowledge, a broadened vision of agriculture, and an inspiration for the future. They are boosters for the course at all times.

Since it was established, 5540 students have attended the Short Course in Agriculture. Every county in the state has been represented in the course at some time. Not only has Wisconsin profited by the course but in many parts of the United States and in several foreign countries are found successful farmers who attended the Short Course. One graduate on a Western ranch sent four of his men to Wisconsin last winter to profit by the course which had prepared him for a career as a successful farmer. A few students have returned to pursue advanced studies and are now in agricultural colleges and experiment station work. During the last winter the first year class was the largest in the history of the Short Course.

The equipment of the College of Agriculture is thoroughly modern and practical. The buildings stand for the best types of farm architecture and the ideas represented in their construction can be readily adapted to the average farm. For years attention has been given to obtaining breeds of livestock that will be representative and true to type. The instruction in the short course is given by the regular members of the staff of the university, and the students have every advantage offered the students in the other courses.

Purpose of the Short Course

Most of the young men who take the course realize that the two winters of training, fifteen weeks each winter, offer 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. The purposes of the Short Course are:

Technical agriculture. To teach the fundamental scientific facts necessary to understand the reasons for the common farm practices, and to give a thorough training in practical agriculture.

Winter school. To give this information at the season of the year when the work on the farm is the least pressing, to permit the students to complete the course in the shortest possible time, and to offer the advantages of the College of Agriculture to those who are unable to complete a longer course.

Farm management problems. 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.

Rural development. To create an interest in rural life, to bring the student to realize the possibilities and opportunities of the farm as a social factor and his relations to the community and society, and to train young men to make an intelligent study of the problems affecting the agricultural interests of the state and to become better farmers and more intelligent and useful citizens.

Preparation for responsible positions. To help young men to secure desirable positions for which they have been fitted by training and experience and where they can increase their store of practical farm knowledge.

Acquaintanceship and inspiration. To enable young men from the various sections of the state to come to know one another and to form acquaintances which will last through life, and to meet and listen to lectures by men prominent in the agricultural world from this and other states and from foreign countries.

Special work. See course for cow-testers, page 14.

The Plan of the Short Course

The Short Course 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. The course will start the middle of November and the studies for the first term (five weeks) will be completed at the time of the Christmas holidays. The second term will start after the vacation and the work of this term will close at the end of the first week in February. The third term will begin the second week in February and close the middle of March. The course will be completed in good time to permit the student to return to the farm to begin the spring work.

Under this plan Short Course students will concentrate upon a few subjects for each term and complete them before taking up other subjects. Instruction is given by means of lectures, recitations, laboratory practice, demonstrations and conferences. Opportunity is given for students to secure answers to individual questions, which makes the work practical and helpful to them.

The course of study is so arranged as to give the students an idea of the fundamental sciences which underlie successful agriculture. The principles and approved prac-

SHORT COURSE MEN HAVE THEIR OWN ORGANIZATIONS

Each class has its own basketball team and there is a Short Course orchestra.

tices of profitable farming based upon these fundamental sciences are explained.

The lectures proper occupy two to three hours a day and the rest of the time is devoted to laboratory practice and demonstration work.

Text books are used as an aid to understanding the lectures and laboratory exercises. 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 of horses for soundness. Classes begin at 8 a. m., continuing until 4:30 with a noon intermission from 12 to 1:30 p. m. No classes are held on Saturday afternoon. If a subject is elected by a student it cannot be dropped unless permission is secured from the Short Course committee.

A standing of 60 or over in every subject is required for a Short Course certificate.

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

FARM TRACTORS INTEREST SHORT COURSE MEN
Different types of engines are studied in farm engineering.

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

A candidate for a certificate having three or fewer failures on Closing Day may, after a lapse of three months, be granted his certificate on passing an examination arranged by the Assistant Dean.

Students having more than three failures upon Closing Day can remove them only by repeating in class the work in which such failures were incurred.

Opportunities for Graduates

During the past year the employment bureau of the College of Agriculture has been unable to meet the rapidly increasing demand for students to work on farms in this and other states. Many of the students have returned to the home farms.

The nature of the positions which are open to Short Course students is shown by the following:

General farm laborer. The opportunity for farm positions on general farms, other than the home farm, is exceptionally good. These positions pay experienced men from $55 to $85 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 $125 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 farms 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. These positions are not as common as those of herdsman, but the pay is about the same or perhaps a little better.

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

Share renters. Young men with some capital in addition to their training and experience may find opportunities for renting farms on a share basis. This may serve as a stepping stone to farm ownership.

Return to the home farm. Most of the students who take the Short Course find it to their advantage to return to the home farm. Many of them enter into partnership with their parents or brothers and soon become real farm managers.

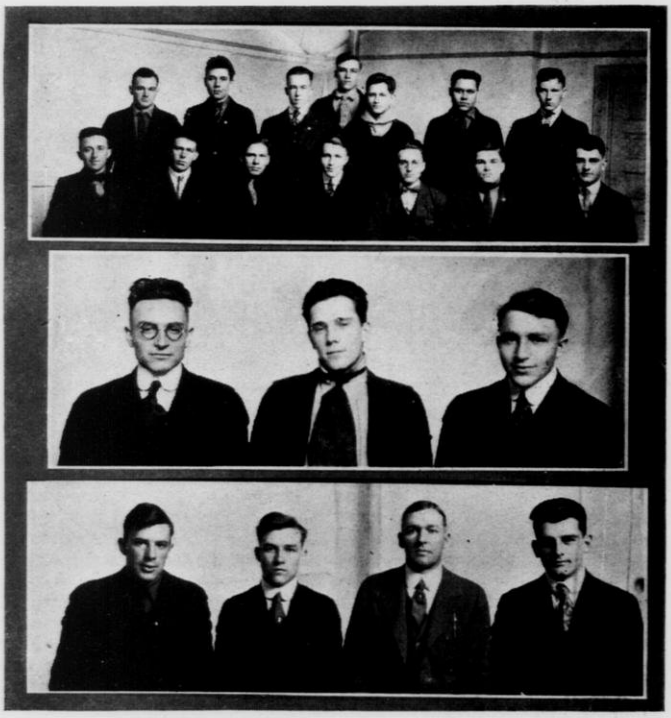
The real value of the Short Course is well demonstrated in the results that the boys have been able to get after leaving the college. Figures obtained by the Agricultural Experiment Association (composed of former agricultural students) show that the yield of corn obtained for a 5-year period by 1550 former students averaged 62 bushels an acre, while the best corn in the same community for the same period of time averaged 49 bushels an acre. This is a difference of 13 bushels an acre, a year, in favor of the improved varieties of corn and the improved methods introduced and practiced by these former students.

Cow testing work. This type of work offers good opportunities for students, in this and other states. The work pays from $60 to $100 a month and includes living expenses. See five-week course on page 14.

Requirements for Admission

General requirements. No entrance examination is required. Students should be at least 16 years old and should have a common school education to pursue the studies of

the Short Course to the best advantage. Persons who have not completed a common school education, but who are by age and experience fitted for the work may be admitted to the course by special permission. 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.



THESE MEN WERE ON SHORT COURSE LITERARY PROGRAMS
The Glee Club (upper), the debating team (middle), and the Short Course quartette (lower) supply part of the entertainment.

From county short course. The county agricultural representatives give courses to boys in their counties. Graduates of these county short courses are admitted to the second year of the Short Course upon their diploma and evidence of having done sufficient supplementary work on

their own farm problems, but all are required to take in class at least chemistry and library practice of the first year schedule, omitting elective work of the second year conflicting therewith. Those not having completed sufficient supplementary work are required by the Short Course committee to take several of the first year studies in class. This may prevent the completion of their second year studies in one year.

From colleges, normals, high schools, county agricultural schools. Students will be given credit for work which corresponds with required work of the Short Course.

Persons intending to enter the second year of the Short Course should make application and present qualifications to the chairman of the Short Course committee not later than September 1, so that there will be time to investigate each application.

EXPENSES

The chief expenses are for room and board. The executive office will have lists of rooms on registration day and assist students in finding desirable locations.

	For residents of Wisconsin	Students not residents of Wisconsin
College Fees—		
Tuition	Free	$51.67
Incidental fee for all students	$6.50	6.50
Infirmary fee	2.50	2.50
Laboratory fee	10.50	10.50
Laboratory deposit	2.00	2.00
Total	$21.50	$73.17
Other Expenses—		
Room		$30 to $ 45
Board		80 to 100
Books, supplies, etc.		15 to 25
Miscellaneous		10 to 20
Total		$135 to $190

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.

Books Required for Short Course

A number of books will be needed by Short Course students. It is impossible to state in advance what books will be required and we would, therefore, advise prospective students not to attempt to buy any textbooks until they are instructed to do so in the various classes.

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 in case of sickness.

Student Activities

The Literary Society is conducted every Friday night by the students in the Short Course. At the weekly meetings members of the society participate in parliamentary drill, debating and public speaking. These meetings are frequently addressed by prominent agriculturists and members of the faculty. Social features are often included.

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

The Short Course students have also a glee club and orchestra under the faculty direction, and furnish music for Farmers' Course meetings and other meetings during the winter, as well as for the Literary Society. Each class is represented in athletics by a basketball and track team. All students in the Short Course are eligible to compete for places in these organizations.

The Agricultural Experiment Association. The association is an organization of former students of the College of Agriculture who are interested in introducing improved methods and practices upon their farms. The work includes field tests in the study of soils, crops, livestock, and the business management of the farm.

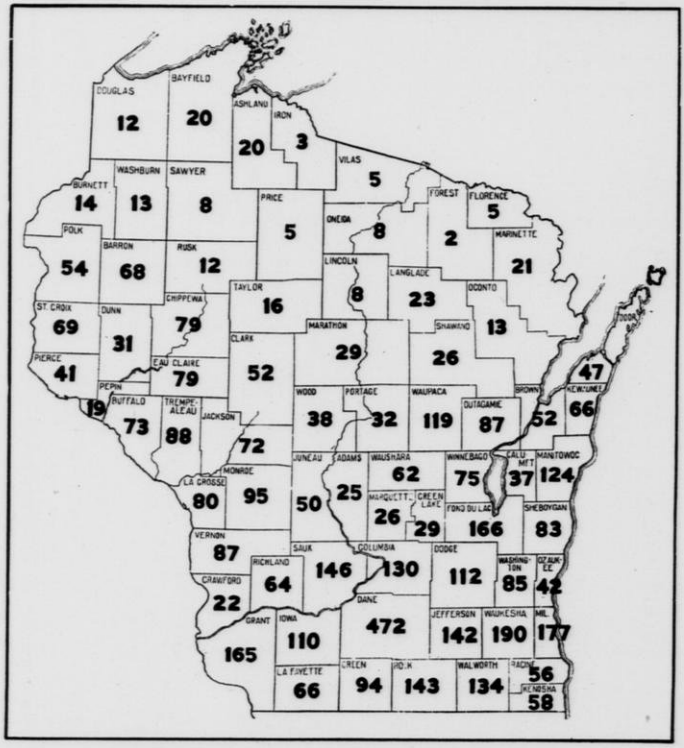
This association has been especially helpful in conducting field tests with grain and forage crops and the growing and disseminating of purebred seeds.

The annual meeting of this association occurs during the second term of the Short Course and the students are given an opportunity to attend the meetings and to become members. The membership is now about 1550. R. A. Moore is secretary of the association.

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

Closing Day Exercises

Students who complete the studies of the Short Course in a satisfactory manner will be granted Short Course certificates duly signed by the Dean of the College of Agri-



WHERE THE SHORT COURSE MEN COME FROM
Every county in the state is represented in the list of graduates.

culture. Certificates were first granted in 1895, 16 in number.

For the last seven years the certificates have been presented at the Closing Day exercises held on the last day of the course. Some prominent speaker is procured to give the address and special music is furnished for this occasion.

SHORT COURSE SCHEDULE—FIRST YEAR

Hour	First Term Nov. 10—Dec. 16	Second Term Jan. 4—Feb. 8	Third Term Feb. 8—Mar. 17
8-10 Lab.	Sec. 1 Agr. Engineering A Sec. 2 Agronomy A Sec. 3 Soils A	Sec. 2 Agr. Engineering A Sec. 3 Agronomy A Sec. 1 Soils A	Sec. 3 Agr. Engineering A Sec. 1 Agronomy A Sec. 2 Soils A
10-11	Poultry A	Plant Life—First half term Breeds A—Last half term	Vet. Science A
11-12	Chemistry	Feeds and Feeding C	Horticulture A
12-1:30	Intermission		
1:30-3:30	Sec. 1 Stock Judging B Sec. 2 Dairying A	Sec. 1 Dairying A Sec. 3 Stock Judging B	Sec. 2 Stock Judging B Sec. 3 Dairying A
1:30-4:30	Sec. 3 { First half term: Div. A Gas Engines B, Div. B Shop Work A or B; Last half term: Div. A Shop Work A or B, Div. B Gas Engines B }	Sec. 2 { First half term: Div. A Gas Engines B, Div. B Shop Work A or B; Last half term: Div. A Shop Work A or B, Div. B Gas Engines B }	Sec. 1 { First half term: Div. A Gas Engines B, Div. B Shop Work A or B; Last half term: Div. A Shop Work A or B, Div. B Gas Engines B }
M. 3:30-5:30 W. F. 3:30-4:30	Sec. 2 Bookkeeping	Sec. 1 Bookkeeping	Sec. 3 Bookkeeping
3:30-4:30 M. W. F.	Sec. 1 Library	Sec. 3 Library	Sec. 2 Library
3-30-5:30 Tu. Th.	Physical Education	Physical Education	Physical Education

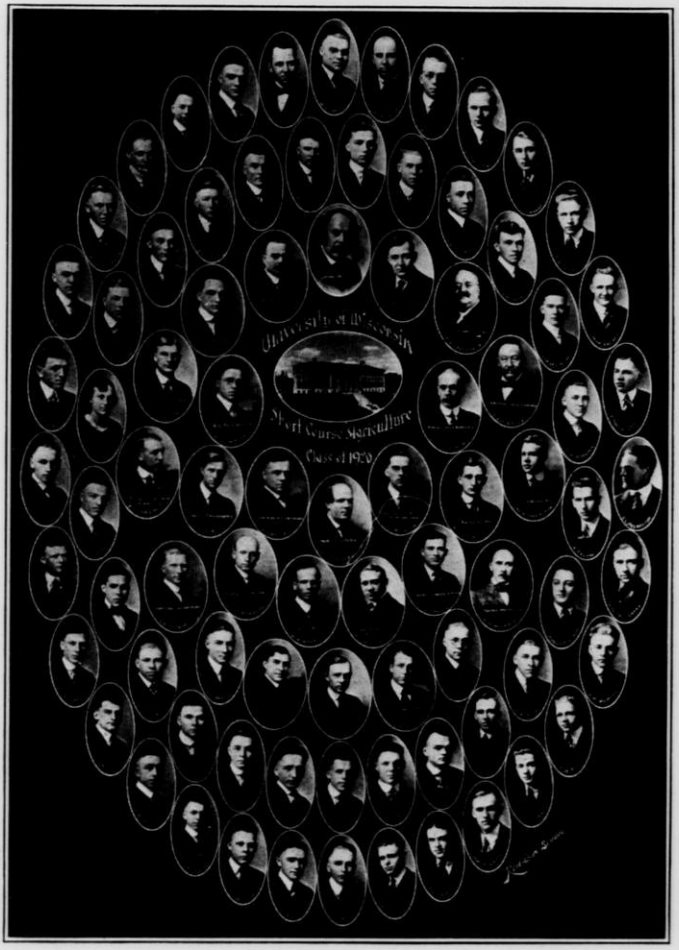
SHORT COURSE SCHEDULE—SECOND YEAR

Hour	First Term Nov. 10—Dec. 16	Second Term Jan. 4—Feb. 8	Third Term Feb. 8—Mar. 17
8-9	Stock Feeding D	Bacteriology	Farm Management
9-10	Vet. Science B	Agr. Economics C	Breeding and Management E
10-12 Lab. Select one each term	Stock Judging F Agr. Engineering E Shop, A, B, C, or D	Stock Judging G Agr. Engineering E Shop, A, B, C, or D	Agr. Engineering E Shop, A, B, C, or D Plant Diseases
12:00-1:30	Intermission		
1:30-2:30	Agronomy B	Livestock Management H	Road Construction C, Farm Woodlot and Grounds D, or Farm Advertising
2:30-4:30 Lab. Select one each term	Horticulture B Land Drainage D Rural Institutions D Poultry B	Agronomy C Soil Management B Entomology A Poultry C	Beekeeping D Soil Management B Adv. Farm Dairying B Poultry D
4:30-5:30 Tu. Th.	Physical Education	Physical Education	Physical Education

A Short Course for Cow-testers

Many inquiries come to the College from young men and women in this state as well as other states about the qualifications necessary for a tester. Most of the inquirers would be well fitted for positions of this kind but are without training in such work. They realize the disadvantage under which they are placed in obtaining and holding positions. They can hardly hope to do the required work in a manner creditable to themselves or satisfactory to their employers without preparation for it. To help these to become qualified through training and to build up a more nearly adequate supply of competent testers, the College of Agriculture offers a special course based upon the first term of the Short Course. Persons wishing this course must present themselves for registration November 8 and 9. Candidates must be at least 16 years of age, and should have not less than a common school education. This course is given only during the first term and is as follows:

Hour	FIRST TERM
8-9	Stock Feeding D
9-10	Veterinary Science B
10-12	Stock Judging F
12:00-1:30	Intermission
1:30-3 30	Dairy B
3:30-4:30 M. W. F.	Cow Testing Work (special)
3:30-4:30 Tu.-Th.	Dairy Arithmetic and Bookkeeping
4:30-5:30 M. W. F.	Stable Work
4:30-5:30 Tu.-Th.	Physical Education



THE SHORT COURSE FACULTY
AND THE GRADUATING CLASS, 1920

DEPARTMENTS OF INSTRUCTION

AGRICULTURAL BACTERIOLOGY

ASSISTANT PROFESSOR W. H. WRIGHT

Agricultural bacteriology deals with the relation of bacteria to agriculture. The main purpose is to acquaint the student with those phases of bacteriology which he should take into account in his daily life. Especial attention is devoted to such subjects as nitrification, nitrogen fixation, and the inoculation of legumes; the contamination of milk and the influence of its bacterial content on its value as food and for butter and cheese making; the preservation of foods and fodders. In the case of the transmissible diseases of animals, those that are of greatest importance to the livestock industry of the state are studied, especially as to their prevention. The relation of bacteria to the health of the farm home is considered in a discussion of farm water supply and sewage disposal. Mr. Wright.

AGRICULTURAL CHEMISTRY

ASSOCIATE PROFESSOR TOTTINGHAM

It is the purpose of this course to show how the principles of chemistry operate on the farm. Among the subjects discussed in the lectures are the following: 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 at various stages of growth and the processes involved in their use of the nutrients of feeding materials.

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

Experiments and 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.

AGRICULTURAL ECONOMICS

PROFESSORS HIBBARD AND MACKLIN; INSTRUCTORS LYNN, MCNALL, TETREAU

The work given by this department is designed to improve the business ability of the farmer by teaching methods of keeping accounts, managing farms, selling the produce, and to point out means of improving the conditions of living in the country.

A. Methods of Farm Bookkeeping. The elements of bookkeeping applied to the farm. Methods of taking farm inventories and the keeping of cash accounts, and accounts with livestock, farm crops, etc. Mr. Lynn.

B. Methods of Farm Management. The aim is to show the student how the various farm operations may be organized and correlated so that 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, and the lay-out of the farm, the capital and equipment necessary for the various types of farming and to the question of farm help. Trips will be taken to various farms to study their lay-out, equipment, and methods of management. Mr. McNall.

C. Agricultural Economics. The conditions and forces which determine the prices of farm products, method of marketing, cooperative and independent, and methods of renting farms and securing farm loans. Mr. Hibbard, Mr. Macklin.

D. Rural Institutions. The peculiar problems of country life. Methods of improving the conditions of life in the farm home and in the farmer's community. Mr. Tetreau.

AGRONOMY

PROFESSOR R. A. MOORE; ASSOCIATE PROFESSOR MORTIMER; ASSISTANT PROFESSORS LEITH, STONE; ASSISTANT ZERBEL

The work in agronomy will include studies of the culture, management, methods of improvement, rotations, and best varieties of all farm crops most suitable for Wisconsin conditions.

A. General Survey. This is a general course in farm crops, especially adapted to the needs of the first year students. Its aim is to give the students a thorough understanding of the best varieties of field crops for Wisconsin conditions and how best to handle them through all phases of culture and harvest. Suitable rotations are discussed in this course, together with specific soil problems in connection with each crop. Special emphasis is laid upon identification of varieties, both in seed and plant forms, through the application of the principles and practices of judging show samples. Mr. Mortimer and assistants.

B. Forage Crops. This course covering a series of lectures on forage crops is especially adapted to second year students. The work covers a discussion of the best methods and practices in sowing, handling, testing, selection and improvement of all the leading forage crops. Mr. Moore.

C. Advanced Crop Judging, Weeds and Seeds. This course is one which the second year students may elect during the second term. Weeds in reference to their introduction, classification, dissemination, identification and eradica-

tion form a special phase of this course. The purity and germination of farm seeds as related to weed introduction and farm profits are also closely studied. Special exercises for the identification of weed seeds are provided in the laboratory study. In addition, a continued study of crop judging is also given, with special reference to the purebred corns and pedigree grains for exhibit purposes. Mr. Stone, Mr. Leith.

AGRICULTURAL ENGINEERING

PROFESSOR E. R. JONES; ASSISTANT PROFESSORS DUFFEE, ZEASMAN

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

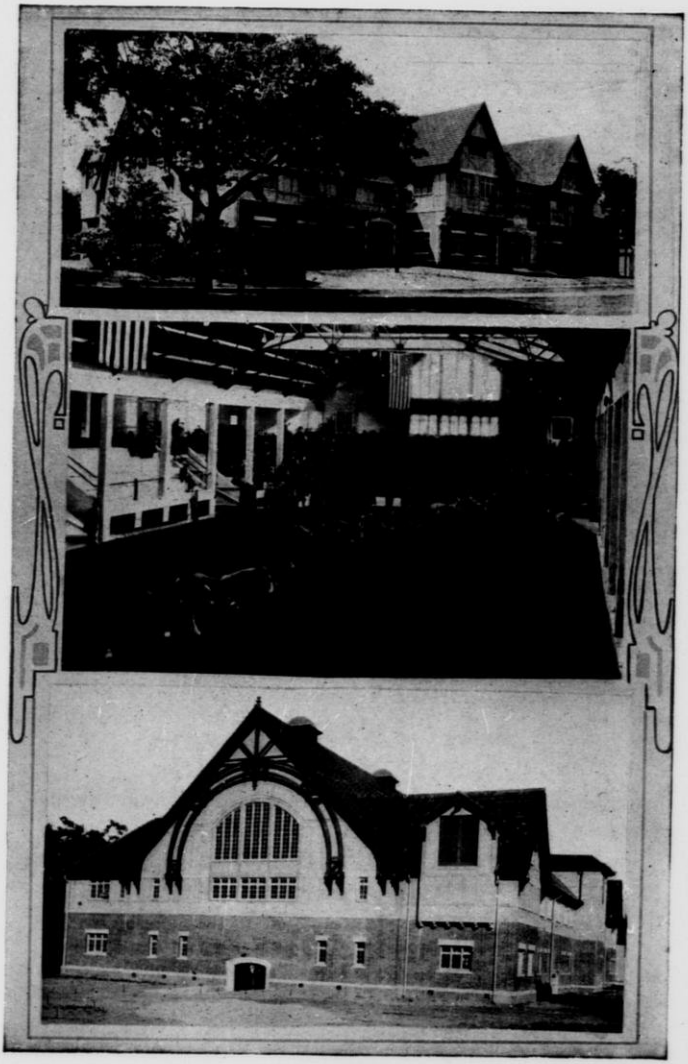
A. Farm Buildings and Equipment. Lectures and laboratory work in the planning and arrangement of farm buildings. The lectures include a discussion of silos, concrete construction, ventilating systems. The laboratory work will be practical instruction in useful farm practices, such as soldering, rope tying and splicing, belt lacing, babbitting and concrete construction. Mr. Zeasman and assistants.

B. Gas Engines. Demonstrational lectures supplemented by laboratory work. Construction and operation of gas engines. Fuel consumption tests. General study of the farm tractor. Mr. Duffee and assistants.

C. Country Roads. The location, construction and maintenance of country roads. Mr. Smith and Mr. Donaghey.

D. Land Drainage. Exercises both in and out-of-doors with the surveyor's level, plane-table, drain tile and tiling tools. Planning drainage systems from topographic maps of typical areas and from sketches of particular areas furnished by students. Superintending the installation of farm drainage systems. Mr. Jones and Mr. Zeasman.

E. Farm Tractors and Machinery. Engine and tractor troubles. Practice with different types of tractors. Construction and operation of the different types of farm implements such as plows, binders, corn-planters, cultivators, etc. Mr. Duffee and assistants.



THE STOCK PAVILION, WHERE MANY SHORT COURSE CLASSES MEET

ANIMAL HUSBANDRY

PROFESSORS HUMPHREY, FULLER, MORRISON; ASSOCIATE PROFESSOR HULCE; ASSISTANT PROFESSORS BOHSTEDT, KLEINHEINZ; INSTRUCTOR COOPER; ASSISTANTS O. J. DELWICHE, KIRST

The courses in animal husbandry given in the Short Course include livestock breeding, judging, 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. Breeds of Livestock. The history, characteristics and utility of the leading breeds of livestock. Mr. Hulce.

B. Elementary Stock Judging. Score card practice in the study of marked classes and breeds of livestock. Department.

C. Feeds and Feeding. The study of feeding stuffs, principles of feeding and rations. Mr. Bohstedt.

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

E. Breeding and Management. Lectures on the general principles of breeding, farm animals and the care and management of swine and dairy cattle. Mr. Humphrey, Mr. Hulce.

F. Judging Swine and Dairy Cattle. Mr. Bohstedt, Mr. Hulce.

G. Judging Beef Cattle, Sheep and Horses. Mr. Fuller, Mr. Kleinheinz.

H. Livestock Management. Lectures on the breeding and production of beef cattle, sheep and horses. Mr. Fuller, Mr. Kleinheinz.

AGRICULTURAL JOURNALISM

ASSISTANT PROFESSOR SUMNER

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

ECONOMIC ENTOMOLOGY

PROFESSOR WILSON; INSTRUCTOR FLUKE

The importance of insect control on the farm is always 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 Methods of Control. This course is planned to meet that need and the more important insect pests of farm, garden and orchard crops will be considered in sufficient detail to admit of ready recognition and treatment where known. The principles of insect control will be studied and applied to individual insects according to the best known methods. Six two-hour periods each week during the second term of the second year. Mr. Fluke.

B. Beekeeping. A course of lectures on practical beekeeping for those students who desire to study the elementary principles of this subject. Lectures and demonstrations in modern beekeeping will be given and each student will have an opportunity to familiarize himself with up-to-date methods and equipment for the handling of bees, and the production of comb and extracted honey. Bee diseases, their recognition, and treatment will also be studied. Five two-nour periods each week during the third terms of the second year. Mr. Wilson.

C. Beekeepers' Short Course. A special short course in beekeeping is given each year during the third term of the short course. This course is planned primarily for commercial beekeepers. Write for further information.

FARM DAIRYING

PROFESSOR FARRINGTON; ASSISTANT THOMSEN

In Farm Dairying, students receive instruction in the general principles which are involved in the production, testing, and handling of milk and cream for city markets, creameries and cheese factories, and the making of butter on the farm.

A. Farm Dairy Practice. The new Dairy Laboratory is equipped with the most approved apparatus for the testing of milk, the separation of cream and the manufacture of butter. Practical instruction in all branches of farm dairying, including the testing of milk and cream, the detection of the more common adulterants of these products and the operation of hand separators, churns, butter workers, and other appliances of the dairy. Mr. Thomsen.

B. Advanced Farm Dairying. A supplementary course to Dairy A. Designed for training men in cow-testing association work, the operation of milking machines, the commercial handling of milk and other advanced farm dairy operations. Mr. Farrington.

HORTICULTURE

PROFESSOR J. G. MOORE; ASSOCIATE PROFESSORS AUST, J. JOHNSON, J. G. MILWARD; ASSISTANT PROFESSORS BRANN, POTTER, ROBERTS

The horticultural work in the Short Course is designed to give the student a knowledge of the principles and practices underlying successful fruit and vegetable production.

A. Farm Orcharding and Gardening. Lectures on the selection of site, planting, soil management, pruning, spraying, varieties, and other orchard problems with special reference to the farm fruit plantation. The farm garden, and methods of making it of greatest service on the farm. Mr. Moore.

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, preparation of spray materials, grafting, pruning, fruit identification and judging, tree planting, hotbed construction, potato identification, judging and culture; propagation of plants by sexual and asexual means. Mr. Brann, Mr. Milward, Mr. Moore, Mr. Potter, Mr. Roberts.

C. Plant Life. The principles of plant reproduction and growth underlie the culture of all plants. One cannot grow plants most successfully and intelligently without knowing how they secure their food and the factors influencing its conversion into plant tissue. Lectures will be given on life processes of the structure of plants, plant processes, how plants reproduce, effects of external influences, methods of propagation, and ways of improving plants. Mr. Potter.

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

LIBRARY WORK

LIBRARIAN HEAN

The aim of this course is to teach students to use books, papers, and bulletins as tools. Lectures will be given on classification and other library methods, and on the literature of agriculture, including books and serial publications. These lectures will be supplemented by practical work in the library. Special attention will be given to the best ways in which to read and study newspapers, farm papers and bulletins, methods of keeping files and records of valuable articles read, how to get government as well as state bulletins and reports, how these may be filed so as to be a ready and valuable reference for the busy farmer. Mr. Hean.

PHYSICAL EDUCATION

DR. ELSOM, EXAMINER, AND ASSISTANT

First year Short Course students will be given a thorough physical and medical examination, and will be required to take one one-hour period 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. Lectures on hygiene and the laws of efficient living will be given by members of the Department of Physical Education. The course is closed by an indoor track meet, with track contests between teams representing the first and second year classes. Dr. Elsom.

PLANT PATHOLOGY

ASSOCIATE PROFESSOR VAUGHAN

Owing to the demand for instructional work in the control of diseases of farm crops, the following course is offered:

Plant Diseases and Their Control. A general introduction to the subject. This will include such an acquaintance with the symptoms of the common and more important plant diseases of Wisconsin crops that one may recognize them on sight. Special attention will be given to the diseases of field crops and grains, and those of fruits, potatoes, and other horticultural crops. Control measures and their application will be emphasized, and such use made of experiment station bulletins and other timely publications as will enable the student to read them understandingly thereafter.

Lectures, demonstrations, and individual laboratory work aiming to give first hand acquaintance with the symptoms of the diseased plants and the characters of the parasitic fungi and bacteria causing the diseases, including methods of overwintering, spread and control. Six two-hour periods each week during the last third of the second year. Mr. Vaughan.

POULTRY HUSBANDRY

PROFESSOR HALPIN; INSTRUCTOR REID; ASSISTANT O. N. JOHNSON

The Poultry Department is equipped with modern poultry buildings, colony houses, a very complete line of incubators, brooders, and other poultry apparatus, such as cramming machines and bone cutters. In addition, some twenty-six varieties of chickens, five of geese, and three of ducks, furnish ample material for poultry judging. These will be used to help the student to become familiar with general poultry raising. An extensive file of poultry journals and books is to be found in the Agricultural Library.

A. Poultry Raising. The breeding, feeding and management of poultry under farm conditions with special reference to the keeping of fowls for meat and eggs. Breeding and feeding for winter egg production, poultry house construction, incubating and brooding, both natural and artificial, killing and marketing dressed poultry, the common poultry diseases. Mr. Halpin.

B. Poultry Judging. The judging of poultry for fancy and utility values. A brief history of some of the more important varieties. 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. Halpin, Mr. Johnson.

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

WORKSHOP DEPARTMENTS

SUPERINTENDENT DABNEY; INSTRUCTORS R. N. SCHUMANN, BLACKSMITHING; MARCUS JOHNSON, FARM CARPENTRY AND BUILDING CONSTRUCTION; ASSISTANT C. F. PETERS

A. Elementary Carpentry. Instruction in the use of wood tools, how to sharpen and keep them in order, how to make and use such fixtures as the bench hook and miter box, making tool box, knife box, book rack, model hay rack, or other articles that may be selected to illustrate various types of joints. Instruction is also given in reading the steel square and its use in building operations. Mr. Johnson.

B. Elementary Forging. For first year students. Instruction in the essential operations of forging, such as drawing out, upsetting, pointing, bending and welding mild steel, leading to the application of these operations in making useful articles such as bolts, chain links, rings, clevises of various forms, cold chisels, metal and stone drills, hammers, knives. Instruction in hardening, tempering, drilling, riveting and soldering. Mr. Schumann and Mr. Peters.

C. Advanced Carpentry. More advanced work to suit the needs of the individual student. The construction of stairs, window and door frames, cupboards, the making of models of houses, barns, and portable pens, silos and framing for concrete construction are among the subjects that may be selected. Advanced instruction in the use of the steel square as applied to the cutting of rafters and other complex framing. Mr. Johnson.

D. Advanced Forge Work. A continuation of first year work including more advanced practice. Welding steel of various grades, pointing and sharpening picks, plow shares, etc., brazing, welding, forging and tempering springs is included in practice work as time permits. Mr. Schumann and Mr. Peters.

SOILS

ASSISTANT PROFESSORS HARMER AND RICHARDS; ASSISTANT MALLOY

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

A. Soil Fertility. Twenty-eight lectures, quizzes, and laboratory exercises, on the soil and its relation to crop production. The principal 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.

B. Soil Fertility. Lectures on the management of special soils, crop rotation in relation to farm management, systems of farming in relation to soil fertility, determining the needs of soils, profitable crop production, and soil erosion. Laboratory work is given in connection with these lectures.

VETERINARY SCIENCE

PROFESSOR ALEXANDER; ASSOCIATE PROFESSOR BEACH

The Animal in Health. In this course first year students study the principles of anatomy and physiology to become acquainted with the normal structure and functions of the animal body. Mr. Alexander.

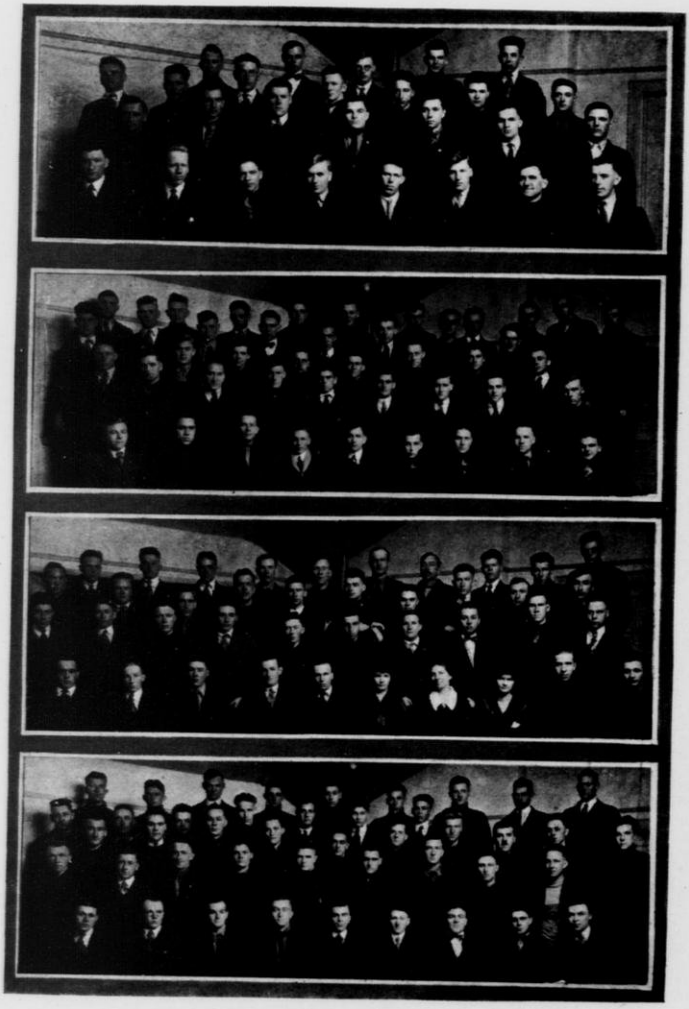
The Animal in Disease. In this course second year students study the causes, symptoms, and methods of preventing the common diseases of animals. Practical demonstrations also are given, as opportunity offers, the better to enable students to recognize diseases and unsoundness and give first aid treatment. Mr. Alexander and Mr. Beach.

FIRST YEAR STUDENTS

Accola, Walter E.——Prairie du Sac
Aloslad, Stanley ——Dodgeville
Anderson, Alfred C.——Cushing
Ashworth, Lewis N.——Madison
Attoe, Arnold ——Wautoma
Attoe, Irving——Wautoma
Aubey, Arnold B.——Deerfield
Axtell, Harold——Waupaca
Baerenwald, Herman A.——
North Milwaukee
Bailey, Roy W.——Eau Claire
Baker, Alan G.——New York City
Barlow, Charles N.——Darlington
Barnwell, Robert ——Madison
Bartlett, Lyle Gordon——Barron
Bauman, Arthur A.——Merrill
Baumann, Alexander W.—Marathon City
Baumann, Edwin——
Estürli Hirzel, Ct. Zürich, Switzerland
Becker, Fred B.——Clinton, Iowa
Behling, Herbert C.——Johnson Creek
Behnke, Herman W.——Hilbert
Beranek, Joseph A.——Stangelville
Berg, John T.——Cashton
Bergelin, Harvey A.——Chilton
Bernd, Wesley A.——New Richmond
Bernges, Harold M.——Burnett
Berry, Roland S.——Kilbourn
Bertelsen, Clarence L.——Lee
Bessey, Arthur P.——St. Francis
Bestul, Casper W.——Scandinavia
Biddick, Ralph A.——Livingston
Biddick, Willard C.——Livingston
Bien, Earl H.——Arkansas
Bjoin, Julian H.——Rice Lake
Bjornstad, H. W.——Chicago, Ill.
Bloedow, Ernest E. —Richland Center
Boehmen, Constance——Alma Center
Borkenhagen, John C.——Baraboo
Bowen, Oscar——Twin Falls, Idaho
Boyer, Trajan——Mukwonago
Bridgland, Alfred A.—Winnebago, Ill.
Brinkerhoff, Meil ——Brandon
Brown, Margaretta—Highland Park, Ill.
Bruins, Clarence ——Fairwater
Brye, Clarence——Coon Valley
Buol, Floyd C.——West Salem
Burkhart, Geo. H.——Pembine
Bushing, Clarence——Trevoc
Carman, Cornelius J.——Plymouth
Carson, Oscar S.——Underhill
Chandler, Paul ——Madison
Cinfl, Emil——Rice Lake
Clark, Harold W.——Poskin
Cleveland, Merlyn B.——Seward, Ill.
Constance, Ralph E. ——Waupaca
Cook, Neal J.——Wausau
Crisler, Archibald E.——Millersburg
Curtis, Charley L.——Portage
Dahl, Gustav A.——Glenwood City
Davies, John C.——Randolph
Derr, Cyril T.——Marshall
Dervees, W. Edwin——Martinsville
Dissmore, Clinton R.——Whitehall
Douglas, Ellis ——Janesville
Drissel, Howard——Dublin, Pa.
Drunasky, Victor——Sun Prairie
Dybdall, Lester E.——Scandinavia
Eager, Marshall R.——Hancock
Eckert, Erwin E.——Markesan
Eke, Birger W.——Bruce
Elkinton, Carlos B.——Eleva
Elliott, Wm. H.——Stanberry
Eno, Ralph H.——Valley
Erb, Walter ——Belleville
Everson, Edwin H.——Argyle
Everts, Clarence J.——Milwaukee
Evison, Willard A.——Stanley
Fay, Ivan Glen——Hayward
Fedler, John——Cadott
Fischer, Eddie F.——Brillion
Flager, Ralph B.——Poynette
Foley, Merlyn R.——Lake Beulah
Forsell, Carl L.——Cumberland
Foth, Herbert G.——Sawyer
Frank, Ward W.——Freeport, Ill.
Frazier, Arthur H.——Manitowoc
Fredrick, Hugo Charles——Reedsville
Friedrich, Gebhardt A.——Hamilton
Fry, Samuel ——Kenosha
Fuller, Frank——Leef
Fullerton, Chester A.——Milwaukee
Galstad, Marvin R.——Coon Valley
Ganong, Leslie ——Albertville
Gardner, William C.——Dodgeville
Gates, Harold F.——Plover
Gerbig, Julius E.——Camp Douglas
Gies, Frank X.——Muscoda
Ginter, John Francis—Cottage Grove
Gleason, Charles J.——Bruce
Gochenaur, Perlie——Viola
Godfrey, Byron S.——Wauwatosa
Goeson, Edwin H.——Brodhead
Graham, Howard——Oxford
Gramling, Aaron A.——Dousman
Grams, Erwin A——Wausau
Green, Peter P.——Union Grove
Griffin, William——Merrill
Grimwood, Maurice H.——Plano, Ill.
Hadlund, Fred ——Cumberland
Hales, Kenneth L.—Prairie View, Ill.
Halloran, Duano ——Bear Creek
Hammond, Lee M.——Camp Douglas
Hanson, Odin A.——Grantsburg
Haroldson, John R.——Davis, Ill.
Harder, Leo M.——Luck
Harmeling, Derwin——Oostburg
Harmeling, Everett D.——Oostburg
Harney, J. Reynolds——Marshfield
Hartman, Jay W.——Freeport, Ill.
Haswell, Clement D.——Windsor
Hathaway, Newton——Milwaukee
Hatz, Lyman——Prairie du Sac
Havlik, Wesley——Wonewoc
Hedlund, Fred A.——Cumberland
Heimann, Adolph W.——Timothy

FIRST YEAR STUDENTS

Helmenstine, Myrle—Barneveld
Hemmy, Wallace W.—Humbird
Hilgert, Carl G.—Alma
Hines, Boyd —Cumberland
Hinz, George C.—Sheboygan
Hodgson, George —Arena
Hogan, Wm. J.—Arena
Holden, Vincent H.—Orfordville
Halloway, Charles D.—Union Grove
Holmes, Arthur—Inkster, N. D.
Hooper, Gilbert —Palmyra
Horn, Herbert M.—Greenwood
House, Irvin W.—Weyauwega
Huser, Casper J.—Grand Rapids
Jackson, Emma A.—Green Bay
Jacobson, Andrew—Withee
Jacobson, Carl—Dallas
Jacobson, Lawrence H.—Taylor
Jehn, Howard D.—Madison
Jenkins, Archie D.—Waukesha
Jewett, Carlyle—Plymouth
Johannes, Jacob—Milwaukee
Johns, Irwin E.—Markesan
Johnson, Clarence H. —Grantsburg
Johnson, Clifford E.—Ingram
Johnson, Emil J.—Mondovi
Jones, Burr —Watertown
Joys, Merwin A.—Milwaukee
Judd, Ralph J.—Aurora, Ill.
Kalhoefer, Adolph F.—Florence
Kappelman, William—Two Rivers
Kauffman, Bryant —Hillsboro
Kearns, Vincent —Dalton
Key, Ray J.—Troy Center
Kilker, Irvin T.—Egan, Ill.
Kloehn, Reinhold R.—Forest Junction
Knapp, Walter A.—Evansville
Knipfel, Walter G.—Hammond
Knoke, Almer —Hatley
Knutson, Adolph E.—Ogdensburg
Krattley, Ulrich T.—Hudson
Kreuscher, Roy J.—Union Grove
Kreuter, Theodore—Sheboygan
Kreuger, Rude —Cecil
Kuehl, August A.—Thorpe
Kufahl, Arnold H.—Watertown
Kurtz, Emil —Schleisingerville
Lammers, Henry J.—Cedar Grove
Lauterbach, Oscar G.—La Crosse
Lawton, Stephen R.—Albion
Levendowski, B. A.—Wausau
Lillehammer, Austin —Mauston
Livingston, Alvin R.—Livingston
Loken, Clarence I.—Tigerton
Lothe, Lewis —Milltown
Lott, Harold E.—Buhl, Idaho
Luebkea, Oscar—Weyauwega
Lueck, Edgar.—Bloomer
Lundstrom, Elling W.—Cumberland
McClair, Lewis S. —Babcock
McCreedy, Leonard W.—Milwaukee
McDaniel, Gordon J.—Kaukauna
McDowell, Russell B.—Waukesha
McKenna, John J.—Viroqua
McKibbin, Charles H.—Spring Green
Markgren, Carl G.—Cumberland
Martin, Edward —Reedsburg
Martin, Noble B.—Madison
Martinsen, Vies—Milltown
Marty, Fred J.—Monroe
Marty, Herman D. —Monticello
Matthew, Ernest B.—Grand Rapids
Meek, Louis F.—Peoria, Ill.
Meltz, Earl F.—Neenah
Miles, John H.—Sturgeon Bay
Miller, Milo Eldon—Nashotah
Moeller, Adolph R.—Sturgeon Bay
Mohns, Victor—Waukesha
Montgomery, Wardvill B.—Madison
Mueller, Arthur W.—Madison
Murat, Raymond —Scandinavia
Murray, John —Whitewater
Musil, Frank John—Tomahawk
Nelson, Bert O.—Scandinavia
Nelson, John R.—Stangelville
Northey, John, Jr.—Palmyra
Ochs, Walter F.—Sheboygan
O'Connell, Morgan R.—Grimms
Odden, Helmer Arthur—Barronett
Olsen, Alfred —Warrens
Olsen, Einer M.—Fairchild
Olsen, Philemon—Earl
Orton, Rex H.—Lancaster
Palmer, Kenneth C.—Sugar Grove
Parmelle, Helen—Iowa Falls, Iowa
Patterson, C. Ardem—Evansville
Patterson, Charles —Melrose
Pautz, Henry F.—Bonduel
Pearson, C. E.—La Valle
Pegel, Raymond—Greenville
Pennycock, Stuart—Janesville
Perkins, Erwin J.—Madison
Peters, John J.—Sharon
Peters, Victor J.—Pepin
Peterson, Arthur O.—Grantsburg
Peterson, Henry—DePere
Pollard, Floyd A.—Wilton
Polzin, John Otto—Chippewa Falls
Poppe, Carl H.—Chicago, Ill.
Prahl, Ewalk C.—Jackson
Precourt, Harry J.—Plover
Pribyl, Joseph S.—Blooming Prairie
Prochnow, Clayton W.—Luxemburg
Quigley, Leon—Winneconne
Reese, George L.—Goodhue
Reichardt, Milton J.—New Holstein
Reinhold, John G.—Stanley
Reisel, Rene E.—Madison
Reppen, Arthur C.—Dane
Retseloff, Harry W.—Neenah
Rich, John Alfred—Prairie du Sac
Richter, Henry —Union Grove
Richter, Leo R.—Weyauwega
Rickell, William Fred—Markesan
Rieman, Andy H.—Wautoma
Rietbrock, William F.—Sheboygan

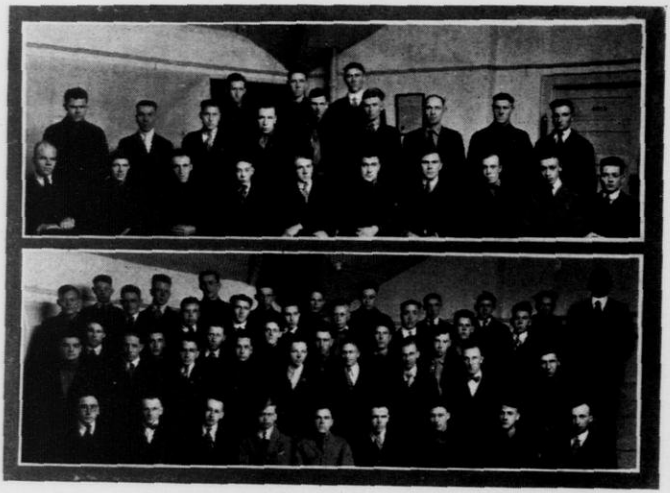


CLASS OF 1921

The largest class in the history of the college began the short course in the fall of 1919.

FIRST YEAR STUDENTS

Rinehart, Lyle D.——Freeport, Ill.
Ringstad, Alfred R.——Eland
Ripp, Charles ——Cross Plains
Robbins, Willis T.——Ft. Atkinson
Rock, J. F.——Pound
Rodenschmit, Frank——Cross Plains
Roeber, Clarence W.——Rockfield
Roeske, Arthur——Wautoma
Ross, James M.——Hammond
Roth, Clarence ——Cadott
Roth, Norman J. ——Mauston
Rower, Harold——Ft. Jennings, Ohio
Rush, Reuben S.——North Vernon
Runde, Arnold——Sinsinawa
Sagen, Edwin M.——Washburn
Salter, Ivan J. ——S. Germantown
Sanders, Howard A.——Aurora, Ill.
Saunders, Harvey W.——Whitewater
Sawle, Jonathan R.——Arena
Schaefer, Herbert C.——Brillion
Schilling, Earl R.——New Holstein
Schmidt, Arnold ——Richwood
Schmidt, Irvin——Seymour
Schmit, Otto G.——Hortonville
Schoone, Conrad P.——
Hallen, Ostful, Germany
Schroder, Arnold A.——Camp Douglas
Schroeder, Edgar W.——Plymouth
Schroeder, Otto ——Wilton
Scobie, William——Janesville
Seering, Robert A——Summit Lake
Severson, Martin A.——Deerfield
Shakal, Joseph T.——Boyd
Sheldon, J. E.——Hines
Sherman, Lester T.—West McHenry, Ill.
Shier, Harold B.——Pulaski
Shuart, Eugene M.——Pleasant Prairie
Simmons, Donald J.——Pewaukee
Smith, Claire K.——Chippewa Falls
Smith, Robert H.——Seward, Ill.
Smith, Warren L.——Winnebago, Ill.
Smith, William E.——Greenwood
Snyder, Owen ——Footville
Solverson, Raymond C.——Oconomowoc
Sorenson, Verner——Whitefish Bay
Spielman, Howard——Seward, Ill.
Spillman, Ralph——Pewaukee
Stahl, Bernard P.——West Bend
Steltz, Carl W.——Denmark
Stamm, Walter S.——Mondovi
Steffen, Alfred M.——Hortonville
Stettbacher, John E.——Fond du Lac
Stevens, George——Fond du Lac
Surendonk, Harry F.——Racine
Sweeney, Paul E.——Edgerton
Swenson, Kenneth ——Hollandale
Taft, Irving J.——Madison
Taylor, Fred B.——Oshkosh
Taylor, John J.——Antigo
Thompson, O. L.——Sharon
Thorp, Donald S.——South Wayne
Thulien, Guy M. ——Iola
Tolock, Charles J.——Sparta
Trautman, Edwin——New Richmond
Ueeck, Edward A.——Hancock
Uhrig, Fred Charles——Elkhart Lake
Ulrick, Lester L.——Red Oak, Ill.
Valley, Normand——Arbor Vitae
Vandervort, Alvin L.——Tomah
Van Sickle, Clayton——Eau Claire
Vincent, Lawrence A.——New Auburn
Von Allmen, Julius—La Grange, Kan.
Waddell, Merrill I.——Roscoe
Walker, Lloyd S.——Sturgeon Bay
Walter, Clem G.——Kendall
Wang, Oden E.——Stanley
Wasrud, Alton L.——Iola
Weber, Arthur G.——New Holstein
Webert, John C.——New Richmond
Weguart, Arnold M.——Woodland
Weiner, Arthur ——Columbus
Weiner, Louis H.——Columbus
Weinman, Bernard ——Neenah
Weinreich, Charles F.——Chicago, Ill.
Welch, Ray Gerald——Webster
Wendt, Clarence E.——Waukesha
West, Frank F.——Monroe
Wetteran, Aubrey——Rockfield
White, Byron T.——Harshaw
Whiting, Charles—West McHenry, Ill.
Wiedrich, Floyd G.——Sharon
Wieland, L. Elmer——New Richmond
Wilcox, Clayton——Balsam Lake
Wilde, Rudolph F.——Thiensville
Witz, Homer W.——New Lisbon
Woodard, Lyle Alfred——Antigo
Woodward Cleveland L.——
Cincinnati, Ohio
Wolf, Peter ——Bloomer
Wright, Samuel H.——Rochelle, Ill.
Wuethrich, John ——Greenwood
Young, Raymond J.——LaMoure, N. D.
Zinke, Benjamin F.——Fredonia
Zochert, Fred N.——Wausau



OTHER FIRST-YEAR MEN

These two groups are also members of the class of 1921, which numbers 321 students.

SECOND YEAR

Aarness, John C.---Cashton
Arneson, Edgar ---Barneveld
Auby, Henry M.---Deerfield
Baird, Chauncey ---Buhl, Idaho
Biddick, Roscoe O.---Livingston
Bilgrien, John H., Jr.---Iron Ridge
Bird, Bennett S.---South Byron
Bowen, Grant R.---Twin Falls, Idaho
Brereton, Don A.---Lodi
Brewer, Bernard A.---Muscoda
Bungert, Roy ---Hortonville
Canby, Joseph O.---Hulmerville, Pa.
Cantu, Lugardo ---Madison
Carey, Walter ---McHenry, Ill.
Di Vall, Percy ---Lancaster
Engass, Abner ---Holmen
Gavol, George---Prairie du Sac
Geister, Ray G.---Juneau
Grant, Wilbur S.---Appleton
Hanson, Joseph A.---Chetek
Harrison, Carter M.---Wilton
Harville, Carroll J.---Eau Claire
Helmenstine, Howard L.--Blue Mounds
Howard, Warren ---Janesville
Huntington, Charles P.--Kenilworth, Ill.
Huset, Leonard ---Chetek
Iliff, Robert W.---Alma Center
Jacobson, Gordon ---Taylor
Jilek, Joseph G.---Antigo
Ketchum, Fred ---Osseo
Kindschi, Elmer---Prairie du Sac
Kittel, Maurice P.---Amery
Knight, B. M.---Colfax, Ill.
Kral, Raymond J.---Antigo
Lashua, L. V.---Northland
Lockwood, Willis E.---Racine
Magnusson, Arthur ---Augusta
Marking, Edmund L.---Onalaska
Michels, Harvey J.---Peebles
Mullen, Herman J.---Bloomer
McNalley, Harry ---Lena
Ness, Clarence E.---Mondovi
Nichols, Elonzo P., Jr.---Milwaukee
Noller, Andrew H.---Colgate
Nymo, O.---Dallas
Oleson, Roy James---Palmyra
Patterson, G. D.---Melrose
Paul, August John---Milwaukee
Phillips, Ralph.---Freeport, Ill.
Prescher, Constantine---Elm Grove
Rabe, William J.---Black Creek
Reddell, Lloyd E.---Dodgeville
Richards, Arthur W.---Lodi
Rothe, D. A.---Elkhart Lake
Ruemmele, Jacob W.---Hudson
Schink, Myron H.---De Pere
Schrank, John ---Lomira
Sether, Ludwig L.---Iola
Smith, Mildred E.---Chicago, Ill.
Southcott, Fred, Jr.---Dousman
Southworth, John B.---La Farge
Suttie, Lawrence A.---Galesville
Tennermann, William, Jr.---Florence
Thew, Harvey E.---Ashland
Thiem, Walter A.---De Pere
Webster, Claire S.---Plainfield
Weihing, Gilbert W.---Black Creek
Wieland, Martin ---Lancaster
Williams, Stanley A.---Bear Creek
Wise, Henry ---Platteville
Wittenberg, Herbert T.-San Juan, Tex.
Zirbel, William O.---De Pere

POST CARD

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THIS SPACE FOR THE ADDRESS ONLY

DIRECTOR OF SHORT COURSE
College of Agriculture
Madison
Wisconsin

SHORT COURSE IN AGRICULTURE

Application for Admission

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

I hereby apply for admission to the Short Course in Agriculture for the term beginning Nov. 8, 1920. I have had..... years experience on a farm.

Should I change my address before Nov. 8, 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 .....

County..... State.....

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

Dated .....

SHORT COURSE FACULTY

EDWARD A. BIRGE, President of the University
HARRY L. RUSSELL, Dean of the College of Agriculture
JOHN A. JAMES, Assistant Dean, in charge of the Short Course
EARL J. COOPER, Director of Short Course

A. S. ALEXANDER, Veterinary Science
F. A. AUST, Farm Forestry
B. A. BEACH, Veterinary Science
G. BOHSTEDT, Animal Husbandry
J. W. BRANN, Horticulture
W. L. DABNEY, Shop
O. J. DELWICHE, Animal Husbandry
F. W. DUFFEE, Agricultural Engineering
J. C. ELSOM, Physical Education
E. H. FARRINGTON, Dairying
C. L. FLUKE, Economic Entomology
J. G. FULLER, Animal Husbandry
J. G. HALPIN, Poultry
P. M. HARMER, Soils
C. S. HEAN, Library Practice
B. H. HIBBARD, Agricultural Economics
R. S. HULCE, Animal Husbandry
G. C. HUMPHREY, Animal Husbandry
J. JOHNSON, Horticulture
MARCUS JOHNSON, Shop
O. N. JOHNSON, Poultry
E. R. JONES, Drainage
E. KIRST, Animal Husbandry
F. KLEINHEINZ, Animal Husbandry
B. D. LEITH, Agronomy
A. J. LYNN, Bookkeeping
P. E. McNALL, Agricultural Economics
T. MACKLIN, Agricultural Economics
E. J. MALLOY, Soils
J. G. MILWARD, Horticulture
J. G. MOORE, Horticulture
R. A. MOORE, Agronomy
F. B. MORRISON, Animal Husbandry
G. B. MORTIMER, Agronomy
C. F. PETERS, Shop
G. F. POTTER, Horticulture
D. H. REID, Poultry Husbandry
G. RICHARDS, Soils
R. H. ROBERTS, Horticulture
R. M. SCHUMANN, Shop
A. L. STONE, Agronomy
W. A. SUMNER, Farm Advertising
E. TETREAU, Agricultural Economics
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R. E. VAUGHAN, Plant Diseases
H. F. WILSON, Economic Entomology
W. H. WRIGHT, Bacteriology
O. R. ZEASMAN, Agricultural Engineering
L. R. ZERBEL, Agronomy