Short course in agriculture: 1912-13. 1912

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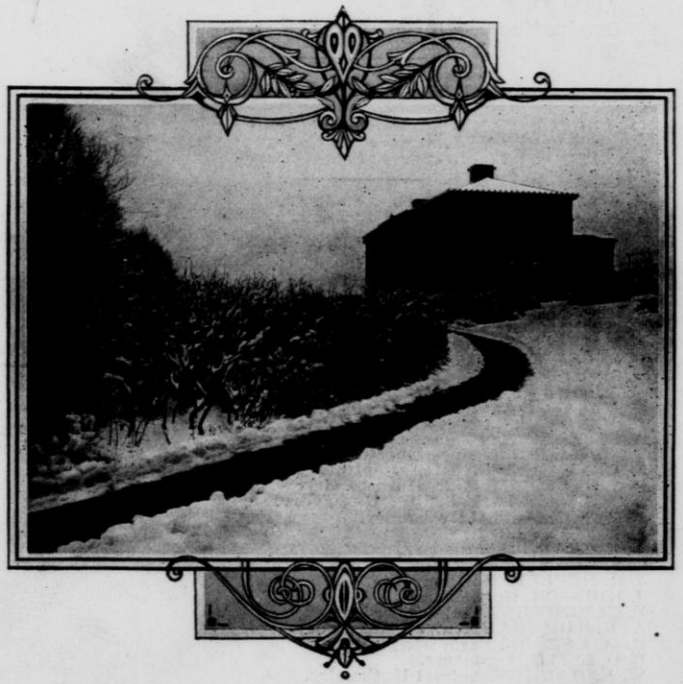
COLLEGE OF AGRICULTURE



SHORT COURSE IN AGRICULTURE

1912-13

MADISON
Published by the University
June, 1912

CALENDAR

1912. Registration begins, Saturday, November 30.
Recitations begin, Monday, December 2.
Christmas, holidays, December 20 (noon).

1913. Recitations resumed, January 7 (8 a. m.).
Inspection Trip, February 20–22.
Washington's birthday, legal holiday, February 22.
Term ends March 13.
Graduation Exercises, March 13.

SHORT COURSE FACULTY

CHARLES R. VAN HISE. President of the University.
HARRY L. RUSSELL. Dean of the College of Agriculture.
DANIEL H. OTIS. In charge of Short Course.

A. S. ALEXANDER. Veterinary Science.
DR. J. C. ELSOM. Physical Education.
J. G. FULLER. Animal Husbandry.
A. L. GODDARD. Forging and Carpentry.
F. B. HADLEY. Veterinary Science.
J. G. HALPIN. Poultry Husbandry.
E. B. HART. Agricultural Chemistry.
C. HOFFMANN. Agricultural Bacteriology.
G. C. HUMPHREY. Animal Husbandry.
E. R. JONES. Soils. Drainage.
C. E. LEE. Farm Dairying.
J. G. MILWARD. Horticulture.
R. A. MOORE. Agronomy.
C. A. OCOCK. Agricultural Engineering.
D. H. OTIS. Farm Management.
A. L. STONE. Agronomy.
W. L. BAIRD. Farm Accounting.
T. CLAVADATSCHER. Agricultural Engineering.
O. J. DELWICHE. Animal Husbandry.
M. E. DICKINSON. Poultry Husbandry.
F. W. FOX. Animal Husbandry.
E. R. FINNER. Soils.
L. F. GRABER. Agronomy.
C. S. HEAN. Library Practice.
J. R. HEPLER. Horticulture.
J. JOHNSON. Horticulture.
F. KLEINHEINZ. Animal Husbandry.
A. H. KUHLMAN. Animal Husbandry.
R. A. LAMSON. Farm Dairying.
B. D. LEITH. Agronomy.
W. E. MARKEY. Animal Husbandry.
T. J. McCARTHY. Horticulture.
R. V. MORGAN. Carpentry.
F. B. MORRISON. Chemistry.
RUDOLPH MUELLER. Poultry Husbandry.
A. C. OOSTERHUIS. Animal Husbandry.
H. SANDELL. Soils.
R. N. SCHUMANN. Blacksmithing.
J. L. TORMEY. Animal Husbandry.
H. W. VROMAN. Agricultural Engineering.
W. W. WEIR. Soils.
F. M. WHITE. Agricultural Engineering.
L. R. ZERBEL. Agronomy.
GEO. ZURIAN. Carpentry.

Entered as second-class matter June 10, 1898, at the Post Office at Madison, Wisconsin, under the Act of July 16, 1894.

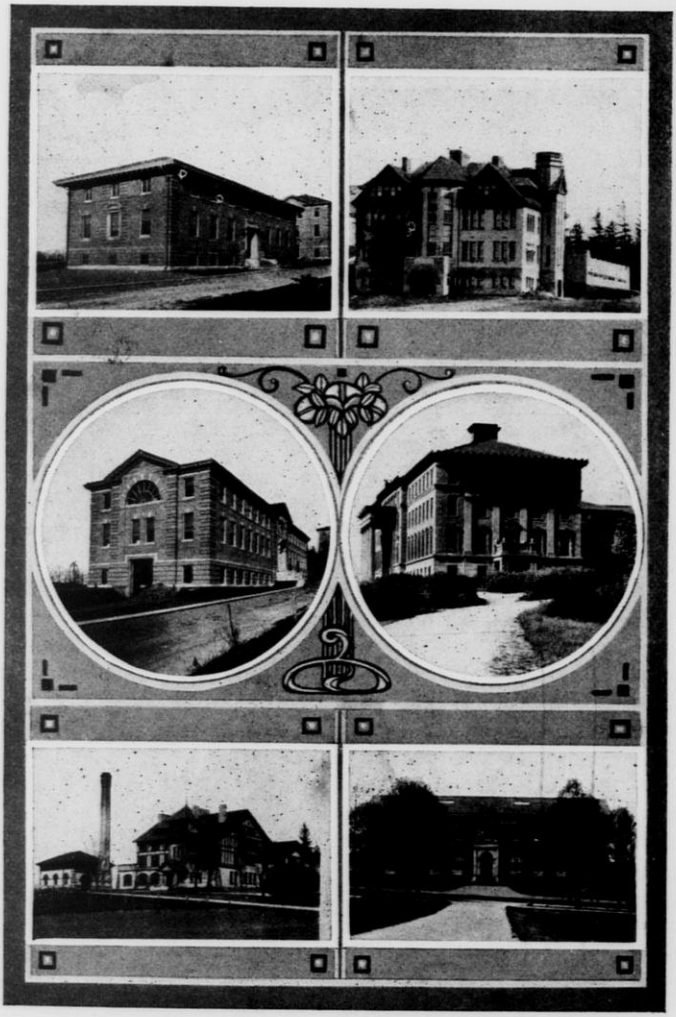
LEARNING TO JUDGE SHEEP

OPPORTUNITIES FOR SHORT COURSE GRADUATES

The demand for well trained young men to take up responsible farm positions is much greater than the supply. The employment office of the College of Agriculture is constantly receiving requests for reliable young men. During three months, January, February, and March 1912, almost 300 applications for help were received at this College and only 170 students completed the Short Course.

The kind of positions which are open to Short Course graduates is indicated by the nature of the application, some of which are as follows: assistants on dairy farms at $25 to $30 per month; herdsmen and feeders, $30 to $50; gardeners and fruit raisers, $25 to $30; farm managers, $40 to $75; ranch foremen, $60 to $100; superintendents of farms, $40 to $100; teamsters, $30 to $40, tenants to operate farms on shares, poultrymen, etc.

Such positions do not attract all Short Course students as many realize that there is a much larger field with greater financial income in returning to their home farms and beginning operations in cooperation with their fathers or brothers.



SOME OF THE AGRICULTURAL COLLEGE BUILDINGS

Agronomy Building
Agric. Engineering Building
Dairy Buildings
Soils Building
Agricultural Hall
Horticultural Building

PURPOSE OF THE SHORT COURSE

The Short Course in Agriculture is designed to meet the needs of young men who desire to increase their skill and knowledge of agricultural science and practice by studying during the winter months when it is possible to leave the farm without serious inconvenience.

This College of Agriculture has had 27 years experience in planning a course of study, selecting apparatus, equipping buildings and securing instructors and has succeeded in adapting this course to the needs of the ambitious young farmers of Wisconsin.

The six principal objects of the Short Course may be summed up as follows:

1. To give the largest amount of information and training in practical agriculture in the shortest possible time without undue crowding. This enables young farmers, unable to take a longer course, to reap many of the benefits to be secured at the State's College of Agriculture.

2. To give this information at the season of the year when the work on the farm is least pressing.

3. To enable young men from various portions of the state to associate with each other and meet prominent men from this and other states, and from foreign countries.

4. To awaken the young farmer to the many interesting facts and opportunities on the farm; to remove the drudgery from farm work; and to give him an inspiration along agricultural lines that will remain with him for life.

5. To help young men with little or no capital to secure positions where they can save money and gain valuable experience.

6. To uplift the farming interests of the state, to make better farmers, and more intelligent, useful citizens.

PLAN OF THE COURSE

The Short Course in Agriculture includes two winter terms of fourteen weeks each. Instruction is given by means of lectures, recitations, laboratory practice, demonstrations and conferences. The greatest opportunity is given for the stu-

dents to secure answers to individual questions which makes the studies practical and helpful to each student. The course of study is so arranged that students are given an idea of the fundamental sciences underlying successful agriculture in so far as time will permit. Based upon these fundamental sciences, the principles and approved practices of profitable farming are explained.

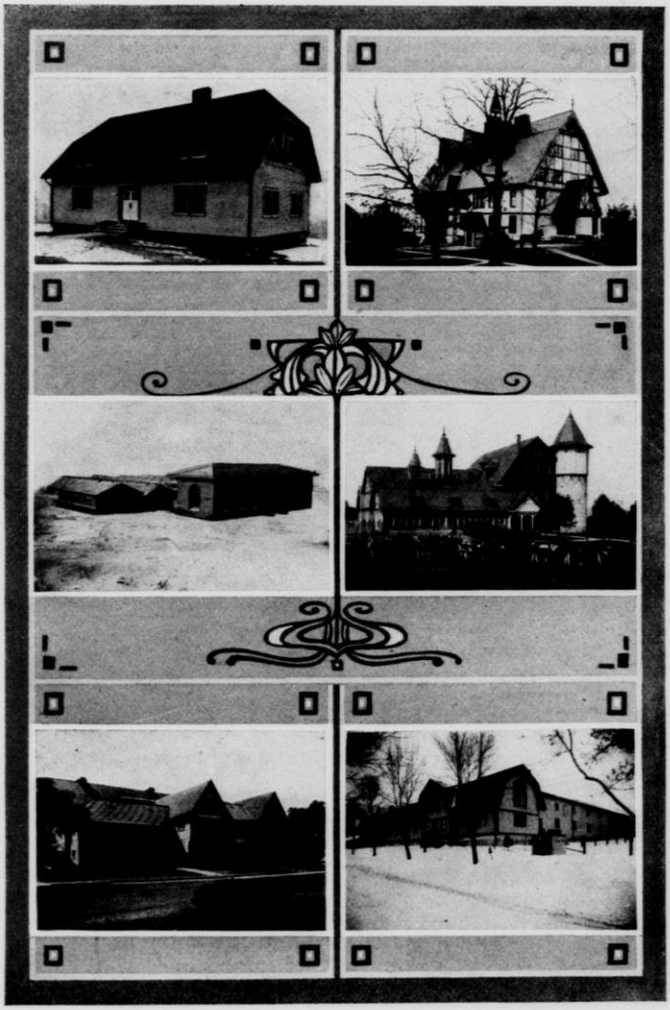
Text-books are used as an aid to understanding the lectures and laboratory exercises. In the laboratories, students are given practice in such subjects as stock and grain judging, grafting, budding and pruning fruit trees, testing seeds, laying tile drains, operating farm engines and machines, mixing rations for animals and examination of horses for soundness.

SHORT COURSE GLEE CLUB

Classes begin at 8 a. m. and continue throughout the day until 3:30 p. m., with a 1½ hour noon intermission from 12 to 1:30 p. m. No classes are held on Saturday afternoons.

STUDENT ACTIVITIES

The Short Course Literary Society is conducted by the students in the short course for the purpose of holding weekly meetings at which, 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 and every Friday night during the short course is devoted to the Literary Society meeting. The organization is under the direction of Prof. Otis and assistants.



OTHER AGRICULTURAL COLLEGE BUILDINGS

Poultry Building
Greenhouses
Stock Pavilion
Horse Barn
Dairy Barn
Sheep Barn

The Short Course Band. In connection with the Society, short course students maintain a band which participates in its programs. A number of instruments are provided by the Society and the organization is under the direction of B. D. Leith.

The Short Course Glee Club has proved an interesting and helpful organization during recent years and participates largely in the meetings of the Literary Society. It is under the direction of Mr. R. E. Vaughan.

MUSICAL STUDENTS MAY JOIN THE BAND

The Agricultural Experiment Association is an organization of former students of the College of Agriculture for the purpose of conducting field tests with grains and forage plants, the growing and dissemination of pure bred seeds, and experimental field work with all departments of agriculture in cooperation with the Experiment Station. The annual meeting of this Association occurs in January and students of the short course are given an opportunity to attend its sessions and become members. Prof. R. A. Moore is the secretary.

SHORT COURSE CERTIFICATE

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 Agriculture. Certifi-

cates were first granted in 1895, 16 in number. The graduating classes have increased each year until in 1912, 172 students received certificates. The total number of certificates granted to date including 1912 is 1,729.

REQUIREMENTS FOR ADMISSION

Students should be at least sixteen years old and have a common school education to pursue the studies of the Short Course to the best advantage. No entrance examination is required. Experience has shown that young men at least twenty years old who have a general knowledge of farming, preferably with a year or more of experience on the farm, can get the greatest benefit from the course. The Short Course is open to both sexes.

EXPENSES

Tuition and Fees. For residents of Wisconsin: tuition, free; incidental fee, $6.50; laboratory fee, $5; breakage and key deposit, $2, (unused portion returnable); total, $13.50.

Residents of other states: tuition, $15; laboratory, $15; incidental, $6.50; lecture, $10; breakage and key deposit, $2, (unused portion returnable); total, $48.50.

Other Expenses. Students have reported living expenses during the short course as follows: room and board, $60 to $75; books, suits and supplies, $20; fees, $13.50; miscellaneous expenses, $5 to $15, totals $100 to $125. It is possible for any thrifty student to take the Short Course for the expenses above mentioned, although many voluntarily spend considerably more than this amount.

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.

Lists of rooms and boarding places will be prepared to aid students in securing desirable accommodations. All students live in private homes, as the University has no dormitories or dining rooms for men.

Have mail addressed care of College of Agriculture, marked "Short Course."

PROFESSORS A. S. ALEXANDER, G. C. HUMPHREY; ASSISTANT PROFESSOR J. G. FULLER; INSTRUCTORS FRANK KLEINHEINZ, A. C. OOSTERHUIS, J. L. TORMEY; ASSISTANTS O. J. DELWICHE, E. W. FOX, A. H. KUHLMAN AND W. E. MARKEY

The courses in animal husbandry given in the Short Course include live stock 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 Live Stock. By means of text books, lectures and lantern slide illustrations first year students are taught the origin, history, characteristics and utility of the various classes and breeds of live stock.

B. Elementary Stock Judging. A course in which first year students are taught by score card practice to distinguish between different types and breeds and to recognize their points and characteristics. The work done in this course fits the student to make comparisons and selection of animals for breeding and market purposes.

C. Feeds and Feeding. The work consists of lectures instructing the student of the first year in the fundamental principles of feeding, balancing of rations and the composition and comparative values of the most important feeding stuffs.

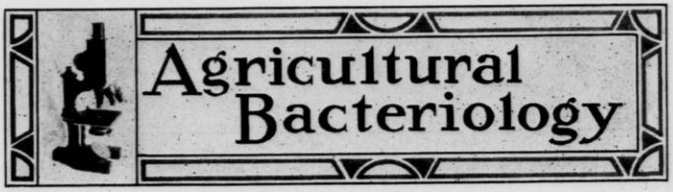
D. Advanced Stock Feeding. The aim of this course is to instruct the student of the second year, in applying the principles of feeding to practice.

E. Breeding and Management. Second year students are taught by lectures and principles, methods and practices underlying the breeding and rearing of farm animals. The work is supplemented by practical barn work which gives

each student an opportunity to study the methods employed in the management of the herds and flocks of the University farm.

F. Advanced Stock Judging. The purpose of this course is to fit the student of the second year to act as a competent judge of live stock. To this end advanced training is given in the classification of farm animals and competitive judging based on a standard of excellence for each breed.

G. Live Stock Practice. A continuation of course E for second year students.



ASSISTANT PROFESSOR C. HOFFMANN

The course of lectures on the relation of bacteria to agriculture is given to the students in the second year of the Short Course. The lectures are supplemented by reading, and by demonstrations in the lecture room and laboratory. Attention is especially given to those phases of bacteriology which are of greatest importance from the standpoint of the farmer. The relation of the bacteria to the decomposition of organic matter, and the fertility of the soil are studied, as are the relations of bacteria to the leguminous plants and to the rotting of manures.

Those transmissible diseases of animals which the stockman and breeder is certain to meet in his work, are considered especially from the standpoint of prevention. The students are taught the use of the tuberculin test in order that they may apply it to their herds. The efficiency of the test as a means of diagnosis and the changes to be found in the body of the diseased animal are shown by slaughtering tuberculous cattle.

In dairy bacteriology especial attention is paid to the contamination of milk on the farm and its relation to the value of milk for the city market and for butter and cheese making. The distribution of disease by milk is also considered.

The relation of bacteria to health in the farm home is considered in a discussion of the protection of the farm water supply and sewage disposal. The principles concerned in the preservation of food materials such as corn as silage, fruits and vegetables by canning, are considered.

PROFESSOR R. A. MOORE; ASSISTANT PROFESSOR STONE; INSTRUCTORS B. D. LEITH AND L. F. GRABER; ASSISTANT L. R. ZERBEL

The work in Agronomy will include a study of the culture and management, methods of improvement and systems of rotation for farm crops suitable for Wisconsin conditions.

A. Small Grains. Lectures on cultivation, harvesting, marketing, testing, uses, habits of growth, manufactured products, rotations, and fertilizers for the small grains. The laboratory work of this course aims to give the student a knowledge of the structure of the small grains, the points of distinction between the different varieties, and an intelligent understanding of the principles and practices of judging.

B. Forage Crops, Weeds and Seeds. Lectures and laboratory work on corn, alfalfa, clovers and other forage crops. The lectures include a discussion of the best methods and practices in sowing, handling, testing, selection and improvement of the forage crops. The laboratory work will consist in type study and judging of corn.

Lectures upon weeds in reference to their introduction, classification, dissemination, identification and eradication will be

given to second year students. The purity and germination of farm seeds as related to weed introduction and the farm profit will also be discussed. Field and weed seeds will be studied under the microscope and their characteristic shapes and markings noted. The student will also be taught to identify the weeds from which the weed seeds came and to associate the weed and its seed.

ASSISTANT PROFESSOR J. G. MILWARD; INSTRUCTORS J. R. HEPLER, J. JOHNSON, T. J. MCCARTHY AND ASSISTANTS

Horticultural work in the short course is designed to meet the demands of the ordinary farm. The required work of the first year gives the student a general idea of the subject. The second year enables those particularly interested to study more in detail horticultural methods and practices.

A. General Horticulture. The aim of this course is to give the student an understanding of the horticultural practices essential to the successful management of the home orchard and small fruit plantation. Two lectures a week will be given in which will be discussed problems of location, cultivation, fertilization, varieties, and care of the home fruit plantation.

B. Laboratory Practice. This course is designed as supplementary to Course A. It consists of laboratory work and demonstration lectures on such subjects as seed and plant structures, compounding insecticides and fungicides, control of orchard and garden pests, and construction and manipulation of hot beds and cold frames. Practical work will be given in the garden house.

C. Commercial Horticulture. A lecture course which will take up more in detail the special practices in handling fruit and fruit plantations. Special problems of management and

marketing will be discussed in order that the student may become fully acquainted with the details of operating a commercial plantation.

D. Advanced Laboratory Practice. A laboratory course supplementary to Course B but differing in that the student will be given greater opportunity to perform the operations himself. Also to include other laboratory work not touched upon in Course B.

PROFESSOR E. B. HART AND INSTRUCTOR F. B. MORRISON

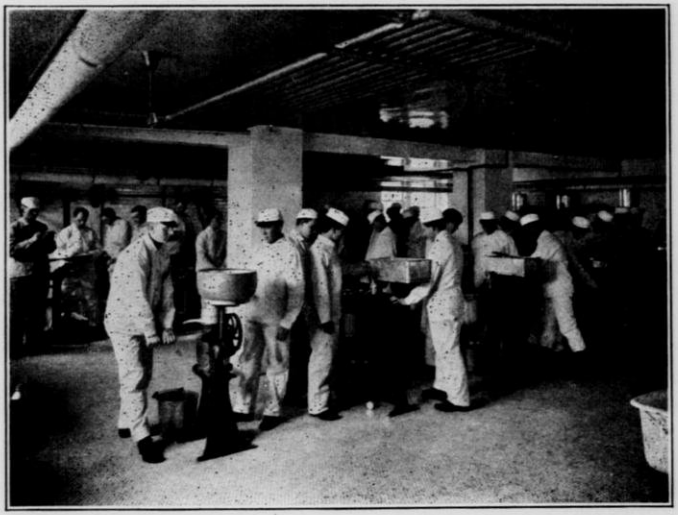
This course treats by lectures and demonstrations of the application of chemistry to the farm. Such topics as the chemical elements contained in the air and soil and their relation to crops are discussed. Consideration is given to how the plant grows and feeds and the animal food products it yields.

Especial attention is devoted to the chemistry and conservation of manures, the relation of feeding stuffs to their composition, and to the origin, composition and purchase of commercial fertilizers. Students receive instruction concerning the composition of domestic animals at various stages of growth and the processes involved in their use of the several nutrients of feeding materials. The commercially important constituents of milk and their relation to other dairy by-products are also studied.

The aim of this course is to interpret Agricultural Chemistry in the terms of farm practice. A demonstration of the casein test is given with its application to the cheese making industry. Other demonstrations show the properties of some of the more common elements concerned in plant and animal growth. The chemical composition of common insecticides and fungicides is also discussed.

ASSISTANT PROFESSOR C. E. LEE; INSTRUCTOR FRANCIS P. SCHWINGLE, AND ASSISTANT R. A. LAMSON.

In Farm Dairying, students receive instruction in the general principles which are involved in the production and



STUDENTS COMPARING DIFFERENT BRANDS OF SEPARATORS

handling of milk and cream for city markets, creameries and cheese factories, and the making of butter on the farm.

A. Farm Dairying. Lectures will be given on the following subjects: yield and composition of milk; the production

of market milk and the handling of milk and cream for factory purposes; care and ripening of cream for farm butter-making; and marketing dairy products, etc.

B. 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. In this laboratory students are given 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.

ASSISTANT PROFESSOR E. R. JONES; INSTRUCTOR W. W. WEIR; ASSISTANTS E. R. FINNER AND HARVEY SANDELL

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 on the principles of soil management, including the conditions affecting and means of maintaining fertility and good tilth. The chief subjects studied are the following: chemical composition of soils and the forms of material available to the plant as food; the water requirements of plants; the water holding capacity of soils, and cultivation to conserve moisture; tillage to improve tilth; the soil conditions required by the different crops and the influence of rotation on the soil.

B. Laboratory Practice and demonstrational exercises planned to aid the student to apply the principles discussed in Course A.

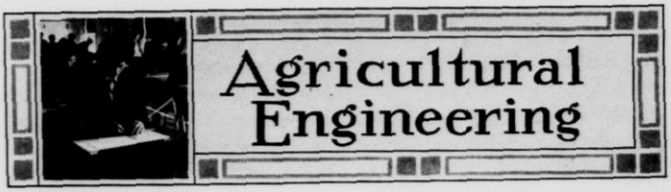
C. Land Drainage. Ten lectures on the theory and practice of land drainage. The economic and engineering aspects of

land drainage are discussed upon the basis of Wisconsin conditions.

D. (1) Soil Fertility or (2) Land Drainage. (1) Seven two-hour laboratory studies upon the texture tilth, water-holding capacity and lime fertilizer requirements of soils, and the movements of capillary and gravitational water in them. Also seven two-hour conferences on the special requirements of the typical soils as well as those of particular soils reported by students.

(2) Seven two-hour exercises in the plant-house or out-of-doors with the surveyor's level, the plane-table, draintile and tiling tools. Also seven two-hour exercises in planning drainage systems from topographic maps of typical areas and from sketches of particular areas furnished by students.

Students are required to elect either (1) or (2).



ASSISTANT PROFESSOR C. A. OCOCK; INSTRUCTOR F. M. WHITE; ASSISTANTS VROMAN AND T. CLAVADATSCHER

A. Farm Buildings and Machinery. This includes lectures and laboratory work in the designing of machine sheds, piggeries, small poultry houses, silos, ventilating systems, etc. The instruction in farm machinery includes laboratory work with ordinary farm implements, gas engines, plows, harrows, cultivators, planters, grain binders, etc.

B. Advanced Farm Engineering. This is an elective course for second year students which may be taken with courses in shop work and stock judging. It embraces the following subjects continuing the work begun in the first year in planning farm buildings and estimating the cost of construction. The practice with farm machinery is continued on the subjects

given the previous year with laboratory work on steam and gasoline engines, exercises in pipe cutting and fitting, rope knots and splices. Lectures and laboratory work in practical cement and concrete construction.

SUPERINTENDENT A. L. GODDARD; INSTRUCTORS R. N. SCHUMANN, BLACKSMITHING; R. V. MORGAN, FARM CARPENTRY AND BUILDING CONSTRUCTION; ASSISTANT GEO. ZURIAN.

A. Elementary Carpentry. This work consists of 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 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.

B. Elementary Forging. This course is arranged for first year students and includes instruction in the essential operations of forging, such as drawing out, upsetting, pointing, bending and welding wrought iron and 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, etc. Instruction in hardening, tempering, drilling, riveting and soldering is included.

C. Advanced Carpentry. This course includes more advanced work to suit the needs of the individual student. The construction of stairs, window casings and door frames, the making of models of houses, barns, and portable pens, and framing for concrete construction are among the subjects that may be selected. Advanced instruction is given in the use of

the steel square as applied to the cutting of rafters and other complex framing; wood turning may be taken in this course, if desired.

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

PROFESSOR A. S. ALEXANDER; ASSOCIATE PROFESSOR F. B. HADLEY

The information acquired in these courses will prove of great value in the breeding, judging, feeding, and general management of farm animals, and as excellent preparation for those who intend later to enter a veterinary college. As aids to the work, the department has skeletons of the horse and the cow; an Azoux life-size dissectible model of a horse, containing 3,000 named parts; Azoux models of separate and diseased parts; numerous veterinary specimens and a collection of modern veterinary instruments, casting apparatus, drugs, etc.

A. Introductory Veterinary Science. In this course second-year students are instructed regarding the rudimentary anatomy and physiology of animals; also the nature, cause and symptoms of the more common diseases and means by which they may, in many instances, be prevented. It is the aim and object of the instruction to qualify each student to act as an intelligent, capable nurse of ailing animals, and to be able to recognize diseases, to give the first aid where necessary, and to properly carry out the orders of the attending veterinarian.

B. Veterinary Practice. Practical demonstrations are given, simple operations indicated, and methods employed in recog-

nizing diseases and administering medicines are taught. Instructions are given in the examination of horses for soundness, and students are required to pass upon soundness of subjects selected for the purpose.

ASSOCIATE PROFESSOR J. G. HALPIN; INSTRUCTOR M. E. DICKINSON; ASSISTANT RUDOLPH MUELLER

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, bone cutters, etc. In addition some twenty varieties of poultry furnish ample material for poultry judging. These will be used to help the student 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. Lectures on the breeding, feeding and management of poultry under farm conditions with special reference to the keeping of fowls for meat and eggs. Subjects of breeding and feeding for winter egg production, poultry house construction, incubating and brooding, both natural and artificial, killing and marketing dressed poultry, etc., will be included. A brief discussion of the common poultry diseases is given.

B. Poultry Demonstration. This work will include practice and demonstration of killing and marketing different classes of poultry. Treatment for poultry diseases, making and applying disinfectants, louse powders, caponizing, etc., the operation of incubators and brooders, construction of simple poultry appliances. A detailed study of poultry houses. Each student will be given a chance to become closely acquainted with the various operations in farm poultry management.

Library Work

LIBRARIAN C. S. HEAN

The aim of this course is to teach the student 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 use of books. Special attention will be given to the best ways in which to read and study newspapers, farm papers, bulletins, etc., 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 and indexed so as to be a ready and valuable reference for the busy farmer. Papers will be written which will call for the study of some of the best books and bulletins.

Agricultural Economics

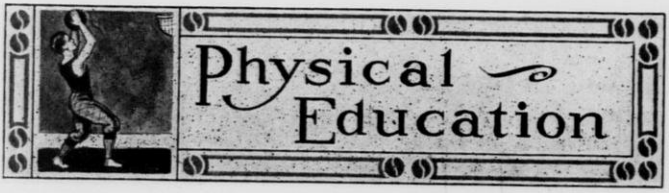
PROFESSOR D. H. OTIS; ASSISTANT, W. L. BAIRD

The work given by this department is designed to improve the business ability of the farmer, by teaching methods of keeping accounts and methods of managing farms.

A. Methods of Farm Bookkeeping. The aim of this course is to teach the elements of bookkeeping as applied to the farm. Methods of taking farm inventories and the keeping of cash

accounts, and accounts with live stock, farm crops, etc., are considered. Milk, feeding, and labor records are also studied. Throughout the course, particular emphasis is laid upon farm arithmetic.

B. Methods of Farm Management. This course considers the farm as a unit. 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. Consideration is given to the location and size of the farm, and its adaptability to the raising of crops and livestock, the lay-out of the farm, the capital and equipment necessary for the various types of farming, and to the question of farm help. Trips will be taken to various farms to study their lay-out, equipment, and methods of management.



DR. J. C. ELSOM, EXAMINER, AND ASSISTANTS

Every Short Course student will be given a thorough physical and medical examination, and will be required to take two half-hour periods per week of developmental 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 and teams will be given. These activities are carried on in the Stock Pavilion which has been equipped with facilities for this purpose, including gymnastic 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.

BOOKS REQUIRED FOR SHORT COURSE

First Year

Judging Live Stock.....Craig
Feeds and Feeding.....Henry
Practical Gas Engineering.....Longanecker
Testing Milk and its Products.....Farrington and Woll
General Agricultural Chemistry.....Hart and Tottingham
Cereals in America.....Hunt
Elements of Soil Fertility.....Whitson and Walster
Instructions for Traction and Stationary Engineers.....Boss

Second Year

Agricultural Bacteriology.....Russell and Hastings
Veterinary Studies for Agricultural Students.....Reynolds
Forage and Fiber Crops.....Hunt
Notes on Drainage.....Jones

DISTRIBUTION OF GRADUATES AND FORMER STUDENTS

A total of 3,615 students have attended the Short Course in Agriculture since it was established in 1885. Nearly every section of the state has been represented. Of these, 434 students have come from other states and countries, many foreign lands being represented.

Graduates of the Short Course are now successful farmers in many parts of the United States and in several foreign countries. An investigation has shown that over 90% of those who have taken this course are actually engaged in some work connected with agriculture. Many former Short Course students have pursued advanced studies and are now holding prominent positions in agricultural colleges and experiment stations.

FIRST YEAR SCHEDULE

Abbreviations used: AB, Agronomy Building; AEB, Agricultural Engineering Building; Agr. H, Agricultural Hall; DB, Dairy Building; HB, Horticultural Building; SB, Soils Building; SP, Stock Pavilion.

Hour	Sections		
8-9	I, II, III.	Mon. and Tues.	Agronomy A, Dec. 2—Jan. 25, Auditorium, Agr. H. Agricultural Engineering A, January 27—March 13, Auditorium, Agr. H.
		Wed. and Thurs.. Horticulture, HB.	
		Fri. and Sat., Soils, Auditorium, Agr. H.	
9-10	Section I.	Mon. and Tues., Agricultural Engineering A, AEB.	
		Wed. and Thurs., Agronomy A, AB. Dec. 2—Jan. 25. Farm Bookkeeping. Jan. 27—March 13.	
		Fri. and Sat., Horticulture B. HB.	
	Section II.	Mon. and Tues.. Horticulture B.	
		Wed. and Thurs., Agricultural Engineering A. AEB.	
		Fri. and Sat , Agronomy A, AB. Dec. 2—Jan. 25. Farm Bookkeeping, AB, Jan. 27—Mar. 13.	
	Section III.	Mon. and Tues., Agronomy A, AB. Dec. 2—Jan. 25. Farm Bookkeeping, AB, Jan. 27—March 13.	
		Wed. and Thurs.. Horticulture B, HB.	
		Fri. and Sat.. Agricultural Engineering A. AEB.	
10-11	Section I.	Mon. and Tues., Library Practice, Library, Agr. H	
		Wed. and Thurs., Agronomy A, AB. Dec 2—Jan. 25. Farm Bookkeeping, AB, Jan. 27—March 13.	
		Fri. and Sat., Soils B, SB.	
	Section II.	Mon. and Tues., Soils B, SB.	
		Wed. and Thurs., Library Practice, Library, Agr. H.	
		Fri. and Sat., Agronomy A, AB, Dec. 2—Jan. 25. Farm Bookkeeping, AB, Jan. 27—March 13.	
	Section III.	Mon. and Tues., Agronomy A, AB. Dec. 2—Jan. 25. Farm Bookkeeping, AB, Jan. 27—March 13.	
		Wed. and Thurs., Soils B, SB.	
		Fri. and Sat.. Library Practice, Library, Agr. H.	
11-12	Sections I, II, III.	Mon. and Tues., Agricultural Chemistry, Auditorium, Agr. H.	
		Wed. and Thurs., Animal Husbandry A, Auditorium, Agr. H.	
		Fri. and Sat.	Animal Husbandry C, Dec. 2,—Jan. 25, Auditorium, Agr. Hall. Farm Dairying A. Jan. 27—March 13.
1:30-3:30	Section I.	Farm Dairying B. Dec. 2—Jan. 11. DB.	
		Shop Work A or C, Jan. 13—Feb. 8. Shops.	
		Animal Husbandry B, Feb. 10—March 13. SP.	
	Section II.	Animal Husbandry B, Dec. 2—Jan. 11. SP.	
		Farm Dairying B, Jan. 13—Feb. 8. DB.	
		Shop Work A or C. Feb. 10—March 13, Shops.	
	Section III.	Shop Work A or C, Dec. 2—Jan. 11, Shops.	
		Animal Husbandry B, Jan. 13—Feb. 8. SP.	
		Farm Dairying B. Feb. 10—March 13. DB.	
3:30-5:30	Gymnastic Exercises, SP.		

SECOND YEAR SCHEDULE

Abbreviations: AEB, Agricultural Engineering Building; Agr. H, Agricultural Hall; SP, Stock Pavillion.

Hour			
8-9	Sections I, II and III	Animal Husb., D. Dec. 2—Jan. 11. Room 61, Agr. H. Bact. Jan. 13—Feb. 8. Room 61, Agr. H. Farm Mg't. Feb. 10—March 13. Room 61. Agr. H.	
9-10	Sections I, II and III.	Mon , Tues., Wed., Vet. Science. Room 61, Agr. H. Thur., Fri., Sat., Poultry A, Dec. 2—Jan. 25, Room 61, Agr. H. Thurs., Fri., Sat., Animal Husb. E, Jan. 27—March 13, Room 61. Agr. H.	
10-12	Section I. Choose one of following:	Animal Husbandry F, SP Shop Work, A, B, C, or D, Shops and [or] Poultry B.	Dec. 2—Feb. 8.
	Choose one of following:	Agricultural Engineering B, AEB. Poultry B. Shop Work, A. B. C. or D. Shops.	Feb. 10—March 13.
	Section II. Choose one of following:	Animal Husbandry F, SP. (The student electing Animal Husbandry F, must continue same subject the last third of term.) Shop Work, A, B, C, or D, Shops Poultry B.	Dec. 2—Jan. 11.
	Choose one of following:	Agricultural Engineering B, AEB. Poultry B. Shop Work, A, B, C, or D, Shops.	Jan. 13—Feb. 8.
	Choose one of following:	Poultry B. Animal Husbandry, F, SP (only for students who had Animal Husbandry the first third of the term.) Shop Work, A, B, C, or D. Shops.	Feb. 10—March 13.
	Section III. Choose one of following:	Agricultural Engineering B, AEB. Poultry B. Shop Work, A, B, C. or D. Shops.	Dec. 2—Jan. 11.
	Choose one of following:	Animal Husbandry, F, SP. Shop Work, A, B, C, or D,Shops and [or] Poultry B.	Jan. 13—March 13.

	Dec. 2—20.			Jan. 7—15	Jan. 16—25.
1:30—2:30	All sections. Agron. B.	1:30 to 3:30.	Sec. I.	Agron. B. lab.	Hort D. lab.
2:30—3:30	All sections, Hort. C.		Sec. II.	Hort. D. lab.	Agron. B. lab.
3:30—5:30	Barn Work and Gymnastics				

Hour	Jan. 27—Feb. 8.	1:30 to 3:30.		Feb. 10-18.	Feb. 19-Feb. 28.	Mar. 1—13.
1:30—2:30	All sections, Agron. B.		Sec. I.	Agron. B.	Soils D.	Soils D.
2:30—3:30	All sections Soils C.		Sec. II.	Soils D.	Agron. B.	Soils D.
			Sec. III.	Soils. D.	Soils D.	Agron. B.
3:30—5:30	Barn Work and Gymnastics					

SECOND YEAR SHORT COURSE STUDENTS, 1911–1912

Adams, Alvin Wm., Lowell
Ahlers, Fred, West Bend
Alt, Fred A., Fond du Lac
Amacher, Fred, Stetsonville, R. 1
Anderson, Alfred M., Denmark, R 2
Anderson, Edwin T., Morrisonville
Athorp, Willie G., Sheboygan, R 1
Atkins, Russell Crowe, Columbia Heights, Winston-Salem, N. C.

Baden., Robert J., Milwaukee
Baehr, Harry, Withee
Baird, Bert, Fox Lake
Baughn, Chas. Morris, Combined Locks
Bayley, Aretas O., Lake Beulah
Berg, John Sigward, Waukesha
Besecker, Howard Frank, Delavan
Borgers, A. S., Madison
Borhaven, Fred'k C., DeSoto
Boyd, Ralph Arthur, Oakfield, R. 26
Brigham, H. M. Madison
Brown, Wm. A. Monroe
Brunker, Jos. A. Ridgeway

Caldwell, Robt. J., Morrisonville
Carlson, John E., Luck, R. 2
Chatterton, Wm. E., Basco
Cook, Aubrey, E., Boaz
Cooper, Archie H. Franksville
Coppernoll, Geo. M., Stockton, Ill.
Cotton, Bert L., Chippewa Falls
Cotton, J. L., Chippewa Falls
Curtis, Frank Glen, Binghampton, N. Y.

Daebel, Fred Wm. Jr., Waukesha, R. 3
Dobbertin, Samuel R. Hartland
Dolan, Wm., Sun Prairie
Donner, Chas. Fredk., Janesville, R. 1
Doyle, Henry, Oconto, R. 3
Dustrude, Geo. O., Oconomowoc
Duve, Henry F., West Allis, R. 5

Eddy, Leroy, Lancaster
Elliot, David Plumb, Westfield, R. 2
Erbe, George, Caledonia
Erickson, Henry Nordahl, Cashton
Evans, John Gilbert, Berea, Ky.

Fehling, Edgar O., Juneau
Fleck, Leander, Hamon, Benoit
Fox, Howard Lorenzo, Madison
Foxwell, Austin Everett, Union Grove
Fried, Wm. Jennings, Fountain City
Fruit, Jay L., Platteville

Gasser, Benjamin C., Plain
Godfrey, Allen, Milton Junction
Gonsolin, Fred E., Reedsburg
Gorsege, Martin, E., Haven
Gottschalk, Chas., Lake Mills
Green, Evart, Durand, Ill.
Green, Lawrence, Durand, Ill.
Gullickson, Oscar Horace, Eau Claire

Hanson, Warner Leroy, Eau Claire
Hasheider, Herbert G., Plain
Heberer, Carl Henry, Adell, R. 19
Heebink, Henry, Baldwin, R. 3
Heebink, Wm., Baldwin
Heitman, Carl J., Plainsville
Hendry, Jas., Bangor
Hetzel, Gilbert J., Cleveland
Hills, Lucien, Waupun, R. 25
Hodge, Roy Chester, Lake Beulah
Holliday, Edw. Loyd, New Richmond
Holterman, D. V., Fond du Lac
Hubbard, Wm. E., Norwalk

Jarosh, Ben. J., Westfield
Jennings, Earl G., Pigeon Falls
Jennings, J. Edwin, Winnebago
Jewett, Donald Carver, Barron
Johnson, Burt, Berea, Ky.
Johnson, Leonard F., Madison
Johnson, Roy M., De Soto
Jones, John Grant, Beaver Dam, R. 4

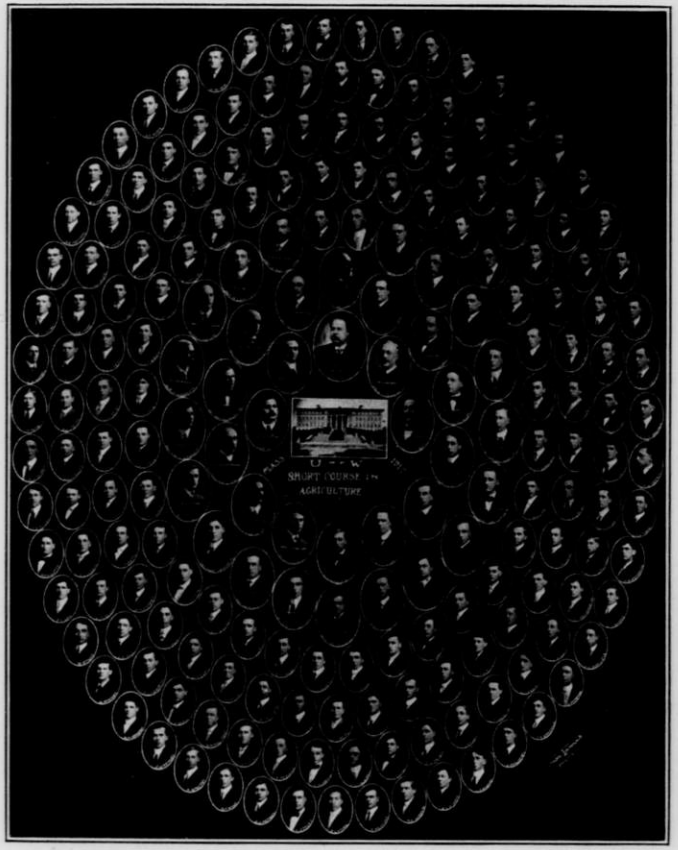
Kaiser, Eldo Fred, Garnavillo, Ia.
Karcher, Gilbert, A., Burlington
Kaste, Arthur H., Alma
Keebaugh, Oliver, Poynette
Keenan, Maurice Laverne, Leeman
Kiner, Eldon, E., Marseilles, Ill
King, Royal E., Lake Mills
Kinney, Clinton Jesse, Wauwatosa
Kirst, Alfred E., Tomah
Koenecke, Ewald H., Reedsburg
Kuehn, Herbert F., Spring Valley

Lake, Clifford, Viroqua
Lambert, Edward F., Taylor
Larson, Theodore, Hudson
Lau, Fred Clifford, Sheboygan Falls
Lawson, Andrew C., Luck
Lean, Ivan F., Elkhorn, R. 5
Lee, Benj., Madison
Lindgren, Lawrence F., Oconto
Linse, Edw., Mondovi, R. 2
Lund, Geo. S., Arcadia
Lutz, Edw., Appleton

McGill, Wm. Allison, Wauwatosa
Martin, Archie Mack, Gotham
Matthews, A. Ralph, Livingston
Miller, Homer Arthur, Pickett
Millis, Tharon H., Whitewater
Moely, Edwin, Prairie du Sac
Morse, Edwin H., Edgerton
Mower, Arba B., Wauwatosa

Notseter, Otto Herman, Deerfield
Nyeggen, Henry, Spring Valley

Oimoen, Otto, Barneveld
Owens, Will E., Platteville



SHORT COURSE CLASS GRADUATED MARCH 14, 1912

Paddock, Ray Morley, Salem
Paine, Allen, Arcadia
Parrott, Geo. L., Merrill
Parsons, Harry Earl, Almond
Pease, Franklin Edmond, Jr., Cable
Pement, Fredk. Arthur, Rosendale
Peterson, Arthur W., Roberts
Pierce, Ross, Stockton, Ill.

Radcliffe, Arthur Edw., Cisco
Radford, Dean Harold, Kewaunee, Ill.

Raftery, Thos. F., Windsor
Ravnholt, Ansgar Benedict, Milltown.
Reed, Burl J., Elizabeth, R. 2
Remington, Merl O., Elroy, R. 3
Richards, Roy E., Lodi
Rusch, Albert, Reedsburg
Ruste, Clarence Edwin, Blue Mounds

Schaal, J. Wesley, Gillett
Schaefer, Geo. J., Sherwood
Schaller, Geo. W., Holmen
Schlaegel, Victor, Platteville
Schowalter, Alwin A. C., Jackson
Schulz, Arthur C. Mauston
Sersted, Alfred, Tomah
Schionoya, Heizo, Madison
Shuster, Chas. Joe, Manitowoc, R. 7
Sievers, John Henry, Milwaukee, R. 9
Skogan, Arthur, Holmen
Smelcer, Fred C., Lone Rock
Soholt, O. S., Madge
Solveson, Arnold, Nashotah
Sorenson, C. A., Klevenville
Sorenson, John S., Greenwood, R. 4
Staley, Leo, Hillsboro
Stanchfield, Sam C. Jr., Fond du Lac
Stevenson, Rolland N., Arbor Vitae
Stubley, Fredk., Black Earth
Sturtevant, Robt. H., Delavan
Suhs, John Jr., Waupaca
Swenson, Olin J., Hollandale
Swift, Mortan Earl, Waterman, Ill.

Taylor, Orlo L., Glen Haven
Thorpe, Henry A., Stanley

Utter, Delwin H., Lake Beulah

Van Zandt, Lynn Carven, Sparta
Veers, Ernst, New Holstein
Voelker, Edw. A., Farmersburg, Ia.

Waegli, J. A., Kewaunee
Walter, Herman, Alma
Weber, Clifford G., New Holstein
Weinreich, Fred C., Fredonia, R. 2
Wesener, Wm., Cleveland, R. 1
White, Arthur, Waukesha, R. 6
Whiting, Frank H., Lake Mills
Wieckert, Walter H., Appleton, R. 4
Wilk, Helmuth F., Alma
Wilkins, Lee Ralph, Platteville
Willey, Loyal, Cuba
Woelfel, Fred John, Waukesha, R. 6
Wolkoff, Serge G., Madison

Zenz, Arthur A., Lancaster

FIRST YEAR SHORT COURSE STUDENTS, 1911-1912

Albrecht, Harry J., Madison
Alexander, Arch., Madison
Allen, Jas. Wm., River Falls
Allen, Warren Ethan, Wyocena
Anschuetz, Geo. P. Cedarburg
Avenell, Ruford Clarence, Linden

Bailey, Melvin B., De Forest
Bainbridge, Robson, Livingston
Barge, Wm. Robt., Grantsburg
Barnes, Phil. H., Hancock
Batten, Glen L., Hudson
Bechlem, Edw. Wm., Plymouth
Becker, Julius, Elkhorn
Bentson, Arthur Palmer, Elroy
Betterly, Ray C., Brattleboro, Vt.
Betzer, Raymond Alfred, Kenosha,
Bittner, Robt., Chilton
Borchers, Hilbert W., Madison
Borgen, Sigward Leonard, Dallas
Bowen, Berne Lincoln, Richland Center
Brager, Geo. Milo, Mt. Horeb
Brewer, Glenn G., Rockbridge
Brictson, Anfin Mathaus, Deerfield
Brown, Ray Wesley, Rhinelander
Brown, Royal Harper, Wauwatosa
Brunstad, Adolph Gustave, Chippewa Falls
Brunstad, Palmer Norris, Bloomer
Buehner, John C., Campbellsport, R.3
Burbach, J. W., Randolph, R. 2
Burkhart, Jas. Clyde, Rhinelander
Buschmann, Louis E., Indianapolis, Ind.
Bushnell, Ray Medley, Platteville

Cahill, Jas. Blain, Grand Rapids
Catlin, Claude, Ellensburg, Washington
Chapin, Fredk. Jos., Washington, D.C.
Christensen, Victor, Roberts
Clark, Scott, C., Andover, Ohio
Clingman, Edwin Earl, Reedsburg
Coleman, Maurice Elmer, Perry, N.Y.
Connell, Wm. Arnson, Menomonee Falls
Cook, Earl, Plainville, R. 1
Craanen, Jacob, Green Bay, R. 1
Crabtree, Ross Lawrence, Bloomington
Crossman, Arthur Willis, Lake Mills
Cullen, Clarence J., Sinsinawa
Curtis, Ralph Clark, Madge

Dahl, Olaus A., Osseo
Daly, James Stewart, Port Wing

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 November 30, 1912. I have had.....years experience on a farm.

If this application is accepted, I promise to conform to all the rules and regulations of the school as to payment of fees, attendance, etc.

Should I change my address before November 30, or should anything occur which will prevent my attendance, I will at once notify you, that my place can be filled by some other applicant.

Name..... Age.....

Post Office.....

State .....

Dated.....

FOLD HERE

I have been induced to take the Short Course by.....
(kindly indicate by a × what influenced you to take the Short Course).

The Efforts of a Former Short Course Student..... ☐

His name.....
(Give name of the former Short Course student who influenced you to take this Course).

Address.....

The Short Course Circular ..... ☐

Announcements of Farm Papers... ☐

Announcements in Local Papers... ☐

Exhibits at County or State Fair.. ☐

Influence of School Teacher..... ☐

Influence of County Superintendent..... ☐

Influence of College Instructor.... ☐

Influence of Some Friend ..... ☐

Other influences, and remarks.....

.....

.....

POST CARD

Place
Two-Cent
Stamp
Here

THIS SIDE IS FOR THE ADDRESS ONLY

MANAGER OF SHORT COURSE

COLLEGE OF AGRICULTURE

Madison,

Wis.

FIRST YEAR SHORT COURSE CLASS 1911–12

Damp, DeWitt, Dane
Danforth, Willis, Milwaukee
Demers, Noe, Stetsonville
Drunasky, Geo. A., Sun Prairie
Dufenhorst, Arthur Edw., West Allis.
Dvorak, Henry, Mishicott, R. 3

Eberhard, Henry J., Cedarburg
Eiler, Walther, Siegburg bei Cöln, Rheinland, Germany
Engelhardt, Fredk. Arthur, Osceola
Epley, Samuel Cedric, New Richmond
Erickson, Leroy Wm., Chicago, Ill.
Ethun, Johnny L., De Forest
Eshleman, Edwin Diehn, Madison, R. 6
Ewers, Gifford, Boaz

Fawkes, Louis Allen, Wauzeka
Festge, Chas., Madison
Fisher, Leslie, Viroqua
Fleishman, Geo., Pittsburgh
Foth, Edwin Andrew, Norwalk
Fox, Neill W., Oregon
Fraser, Robt. Stewart, Burlington
Frederickson, Edwin A., Necedah

Gasser, Clarence C., Prairie du Sac
Gearing, Frank, Black River Falls
Gettleman, Ira, S. Germantown
Glocke, Arthur A., Weyauwega
Gray, Geo. W., Coloma
Grinde, Eugene L., Morrisonville
Grobe, Henry W., Milwaukee
Gunderman, Herbert, Louisburg

Haigh, Richard, Cream
Haight, Jas. Smith, Poynette
Hamlin, Hal I., Wautoma
Hansen, Henry Nicholas, Clintonville
Hanson, Harold Eugene, De Forest, R.1
Hanson, Walter, Nashotah
Harris, Ralph Leonard, Delavan
Haseleu, Edwin E., Waterloo
Hass, Julius Henry, Merrill, R. 1
Healy, Benjamin, Cambria
Hebert, Raymond C., Chippewa Falls
Heffron, David F., Hudson
Heidke, Wm. Albert, Clintonville
Hein, Chas. W., Merrimac
Hermanson, Johnnie A., Stoughton
Heyroth, Alum A., Mishicot
Hitt, Oscar A., Alma
Hoilien, Helmer Norman, Westby
Holt, Edw. Lausen, Pleasant Prairie,
Holt, Frank Ellsworth, Oconomowoc
Honeysett, Clayton Macomber, Janesville, R. 6
Horner, Gustavus Brown, Ripon
Horter, Geo., Milwaukee
Hovrud, Olin, Mt. Horeb
Howell, Eugene E., Dayton, Ohio
Howland, Roberts P. Chicago, Ill.
Hull, Benj. Loring, Montello
Hult, Leslie Percival, Rockford, Ill.
Hunt, Claude, Madison

Ingels, John Errett, Des Moines, Ia.
Irmscher, Gilbert Stanley, Colesburg, Ia.

Johnson, Geo. Rasmus, Antigo, R. 3
Johnson, Herbert, Black River Falls
Johnson, Theodore L., Blair, R. 3
Jones, Everett Wm., Brandon
Jones, Robt. Milton, Columbus

Kassilka, Arthur, Lake Mills
Kassner, Edward, Kewaunee, R. 6
Keen, Aglae (Miss), Milwaukee
Keipper, Walter P., Menomonee Falls
Kelly, Lawrence, Kodiak, Alaska
Kennedy, Philip Henry, Wilson
Kindschy, Elmer Ramond, Waumandee,
King, Earl F., Howe, Ind.
Kinservik, Thorvald, La Crosse
Kirsch, John James, Deer Park
Kirst, Arthur L., Tomah
Konrad, Peter G., S. Germantown
Kreuscher, Wm. Robt., Somers
Kremer, Paul Henry, Milwaukee

Langdon, Earl, Baraboo
Larson, Jos. Merrel, Knapp
Lawrence, Clifford Patterson, Hudson
LeGore, Harlow, Eau Claire
Lenmark, Aaron, Eau Claire
Lentell, John Howard, Beloit
Leverich, Jas. Earl, Sparta
Lewis, Edgar M., Weyauwega
Lerch, Fred, Morrisonville
Liddicoat, Lloyd Harrison, Linden
Linnane, Dannie G., Reedsville
Loesel, John, Cream
Luehrs, Geo. Walter, Hayton

Mack, John J., Algoma, R. 1
Marten, Erwin Richard, Knowles, R. 1
Mayo, Geo. L., Eau Claire, R. 5
Meyer, Louie John, Whitelaw
Middleton, Geo. W., Madison, R. 7
Miller, John Wm., Ripon
Morner, Arvid, Ogema
Mueller, Herman Carl, Bonduel

Nees, Wellington H., Mt. Horeb
Nelson, Oscar L., Cambridge
Niemann, Fred, Madison
Northey, Willard, Palmyra

Olman, Erick Emanuel, Glenwood City
Olsen, Lars M., Milltown
Olson, Walter H., Glen Valley
Owen, George, Baraboo

Parrish, Rexford O., Plymouth
Parry, Richard Haydon, Wales
Patchin, Harold E., Wyocena
Paulsen, Alfred, New Holstein
Pearson, Louie T., La Valle
Pease, Manford, Cable
Peck, Walter Wm., Coloma, R. 1
Pedersen, Hans, Luck, R. 1
Peters, Ralph A., Sharon
Phear, Henry John, Kimberley, South Africa
Pierce, Marshall Avery, Fall Creek
Plummer, Arthur Pride, Oshkosh, R. 6
Pommerening, Edwin Chas., Oshkosh

Powers, Wm. Carroll, Oshkosh
Price, Ralph D., Lima, Ohio.

Quall, Oscar P., Midway
Quien, Peter Almer, Scandinavia

Randall, Charles B., Bellona, Va.
Rasche, Arthur L., Milwaukee
Rebensdorf, Fred John, Fairchild
Rector, Fred J., Fennimore
Redmond, Emmet M., Calvary, R. 41
Renny, Hubert, Belleville
Ripley, Jos. Wm., Kewaunee, R. 6
Roach, John Malichy, Fond du Lac
Robbins, Raymond A., Madison
Robertson, Donald, Tomah
Rockwell, Clarence Elmore, Whitewater
Roldt, Frank Matthew, Milladore
Roscher, Edwin Deitrich, Milwaukee
Rosenow, Irvin A., Arcadia
Roth, Louis, Prairie du Sac
Ruemmele, Geo. J., Hudson
Rusk, Chas. L., Viroqua, R. 3
Rustad, Ludvig, Black River Falls
Ryan, Peter Edw., New Richmond

Sankey, Erl Oyar, Durand, R. 2
Sarow, Otto, Evansville
Sauberlich, George, Greenville, R. 16
Schafer, Otto Henry, Madison, R. 9
Schemanski, Albert, Stetsonville
Schlotthauer, Carl Frank, Madison
Schlough, Roy, Wheeler
Schmidt, Arthur, De Pere, R. 2
Schmidt, Wm., Algoma
Schrap, Roland, Juneau
Schultz, Gerhart A. H. J., Milwaukee
Searle, Ralph O., Luck
Servais, Geo. Wendell, Green Bay
Seymour, John Harold, De Soto
Sharp, Floyd, Cable
Sharpee, Ole A., Rio
Smith, Francis Weston, Columbia
Squires, Charles E., Baraboo
Stear, Fredk. Samuel, Ft. Atkinson
Stewart, Otto W., Bloom City
Stuart, Geo. W., Monroe
Swalem, Olin, Dane
Switzer, John, Chicago, Ill.

Taliaferro, John C. Jr., Tappahanock Va.
Taube, Henry E., Elkhorn
Taylor, Paul E., Milton
Techtman, Chas. W., Kewaskum, R. 4
Tellock, Raymond Henry, Clintonville
Thompson, Chas. J., Mt. Pleasant, Utah
Towne, Wesley W., Waupun
Triller, Arthur F., Menomonee Falls
Trussell, Orson Geo., Baraboo

Ubbelohde, Frank, Sheboygan Falls
Usinger, Fred Jr., Milwaukee

Van Keuren, Harry, Fairchild
Van Vuren, Cornelius, Ringle
Vieth, Otto, Norwalk
Volk, Earl Swaney, Oconto Falls
Volkman, Ralph, Eau Claire
Voskuil, John Wm., Baldwin

Wallen, Aron Matthew, Taylor
Ware, Chas. S., Waupaca
Welker, Leonard, New Holstein
Wells, Ralph G., Waupun
Wethern, Floyd, Eau Claire
Weymouth, Max, Plainfield
Wheeler, Chas. B., Reedsburg
Whiting, Earl, Cottage Grove
Wilcox, Fred D., Madison
Wilkins, Osmer Raymond, Platteville
Willgrubs, Albert, Cashton
Williams, Edw. Thos., Wales, R. 31
Willis, Robt. James, Rewey
Wolfram, Frank W., Kilbourn
Woods, Mort, Sun Prairie

Zenz, John P., Lancaster