

Courses offered at UBC after the First World War

Part Two

RETURNED SOLDIERS' VOCATIONAL WORK.



AT the present time all of the Departments of the College of Applied Science are taking an active part, in co-operation with the Department of Soldiers' Civil Re-establishment, in the re-establishment of returned soldiers.

The Department of Mining and Metallurgy is offering courses in Assaying and some special subjects. A considerable number of men have already taken advantage of these courses, which are continuous, covering forty-three hours per week, for eight months. The Department of Chemistry is giving lecture and laboratory work in connection with these courses in Mining.

Temporary buildings of light construction and additions to the existing buildings of the University have provided room for expansion of the work carried on in the Department of Mechanical Engineering. Garage mechanics, gasoline-engine operators, and chauffeurs are trained in a new garage which will accommodate forty men at one time. Various models of engines and cars provide equipment for actual shop-work, at which the men work for eight hours a day under conditions as nearly commercial as it is possible to maintain.

The Machine Shop, accommodating twenty-five men, will provide training for general machinists, so that those who complete the course may feel immediately at home in any Machine Shop.

The electrical equipment is sufficient to give the students excellent training in the care of electrical machinery; supplies and fittings are used on practical wiring and installation problems, so that the men are thoroughly familiar with their uses. These students complete a course as General Electricians.

In the course for Steam Engineers, where twenty men are being trained at a time, the work is done partly in the lecture-room, partly in the laboratory, and partly in steam-power plants throughout the City of Vancouver. Men are made competent to operate steam plants, and have no trouble in passing the British Columbia examinations allowing them to take charge of the various classes of plants.

Motion-picture operators are trained in co-operation with the local union. The student spends about one-half of his time at the University, taking electrical and optical work, and the other half of his time at local theatres. The Department of Physics is giving lectures and laboratory work on "Light" in connection with this course.

Classes in Mechanical Draughting, Ship Draughting, Commercial Telegraphy, and Forestry have been instituted, and classes in various other lines of employment will no doubt be inaugurated as the demand increases.

The number of students taking any class is limited, so that no difficulty will be encountered in placing the men in positions. The success of this work is shown by the ability of the men to hold employment, and to advance in it. Up to the present time (January, 1919) there has been no difficulty in having the men who have completed a six-months' course obtain employment at about \$100 per month or more, and the greatest commendation of the work comes in the fact that the previous employers of our men are providing the best source of employment for those who complete their work from time to time.

A five-months' course in Forestry is given for the purpose of training men for minor positions in the permanent ranger forces of the Dominion and Provincial Forest Services. Botany, Mensuration and Surveying, Protection and Improvement, and Administration, as applicable to Forestry, are among the subjects taught, and in addition general tuition is given. Instruction by the Staff of the Department of Soldiers' Civil Re-establishment is supplemented by lectures from professors in other Departments, and by Forest Service officials. Field practice in log-scaling, timber-cruising, mapping, and surveying is included, while visits to close-in logging camps give the soldier-students the required opportunities for practical training.

SHORT COURSES OPEN TO THE GENERAL PUBLIC.

The Department of Mining and Metallurgy offers each year a series of Short Courses in Mining for the benefit of miners, prospectors, and business men. These have been highly successful and popular. One of the great needs of our Province is trained prospectors. The University is filling this need, as far as its resources permit, in a satisfactory and successful way. These courses are given for a nominal charge, and include condensed courses in Mining, Smelting, Geology, Mineralogy, Chemistry, and other subjects, especially fitted to the needs of prospectors and other mining men.



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COLLEGE OF AGRICULTURE.



REGULAR COURSES.

AGRONOMY. This Department was organized in 1915. Each succeeding year has seen a larger area in the permanent University site at Point Grey devoted to the study of soil problems, and to field tests with all classes of farm crops. The principal experiments being conducted are related to methods of soil-management, to fertilizer experiments, to variety tests, and to breeding-work with clovers, grasses, forage, cereal, and root crops.

The various courses offered in the Department are planned to meet the requirements of students who desire a scientific and practical training in all phases of soil and crop management. Lectures, laboratories, demonstrations, and field studies are all conducted with a view to familiarizing the student with the most approved principles and practices underlying soil-culture and successful field-crop production.

Approximately twelve acres of land have been thoroughly cleared, underdrained, and prepared for investigational work. This tract of land, together with the crops grown therein, constitutes the field laboratory of the Department. A good foundation has been laid for improvement-work and gratifying progress has been made with a number of crops, although selection and breeding-work has not been conducted for a sufficient number of years to warrant the dissemination of improved strains.

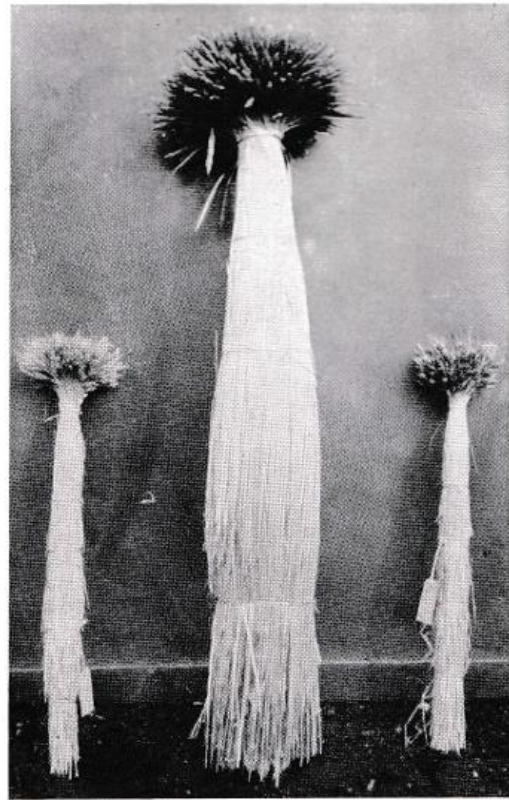
ANIMAL HUSBANDRY. The Department of Animal Husbandry deals with the various phases of breeding, feeding, care, management, and marketing of the different classes and grades of horses, cattle, sheep, and swine. It is the purpose of the Department to afford thorough training to students in all the phases essential to successful live-stock husbandry.

The Department is equipped with an excellent dairy-cattle barn and farm dairy for market milk, and has excellent groups of Ayrshire, Jersey, and Shorthorn cattle, of Berkshire and Yorkshire swine, and of Clydesdale horses. To this equipment additions are being made from time to time. The Department also has a modest but usable class-room for judging-work.

The abattoirs of P. Burns & Company and Swift & Company, together with their retail stores in the City of Vancouver, through the generous co-operation of the managers concerned, are largely available for instructional and investigational work. Thus classes may study and observe beef, mutton, and pork producing stock from the standpoints of the consumer, retailer, packer, and producer.

The excellent herd of Holsteins and other breeds of stock at Colony Farm, while too far distant for regular class-work, are available, and furnish

THESE sheaves of fall rye were the products of equal areas of gravelly sand at Point Grey. The large centre sheaf was grown on ground treated with liquid manure at the rate of 4.3 tons per acre, resulting in a tenfold increase in yield. The smaller sheaves represent the product from adjacent and similar but unfertilized soil. This is illustrative of many such investigations undertaken by the Department of Agronomy.



THE VALUE OF FERTILIZERS.



THE HORTICULTURAL BARN, POINT GREY.

excellent material for laboratory practice. Several other herds of pure-bred animals of different types are sufficiently near the University to be of distinct value, and are used as much as possible.

For a study of the market classes and grades of horses, the working stock of the business firms in the City of Vancouver is available, and is of great value.

DAIRYING. This Department is in process of organization. It is proposed to develop it for original investigation, for experimental work, for the giving of instruction within the University, and for the furtherance of the interests of the dairy industry within the Province.

The Department of Dairying is concerned with the handling of clean, hygienic, and satisfactory milk for town and city consumption, from the time the milk is produced on the farm until its use by the consumer. It is prepared to assist all engaged in the handling, transportation, and distribution of milk.

The Department is also intimately concerned with the manufacture of butter and cheese. Investigations of problems which from time to time present themselves to those engaged in the processes of butter-making and cheese-making will be conducted. Experimental work will be undertaken to determine the best methods to be adopted to ensure that milk of the nature already specified shall be available for consumption; to determine the most desirable practices for the butter-maker to follow; to determine the varieties of cheese best suited to the Province, and the processes of manufacture necessary to secure high quality.

In order that such investigations as are necessary may be conducted, a working laboratory has been provided.

HORTICULTURE. A beginning was made in the organization of this Department in the autumn of 1916. It aims to develop investigation and experimental work, to give instruction within the University, and generally to further the Horticultural interests of the Province.

The Department's activities include the growing, packing, and satisfactory marketing of all fruits and vegetables, and is prepared to assist those engaged in their production and sale. It is likewise interested in Landscape Gardening and Floriculture, but at present, because of limited organization, is not prepared to offer special work in this division.

But ten acres of the Horticultural lands are cleared. On this has been started a small orchard, comprising seventy-eight varieties of fruits, from which to obtain specimens for class purposes, and also a small orchard for pruning-studies and practice-work with students.

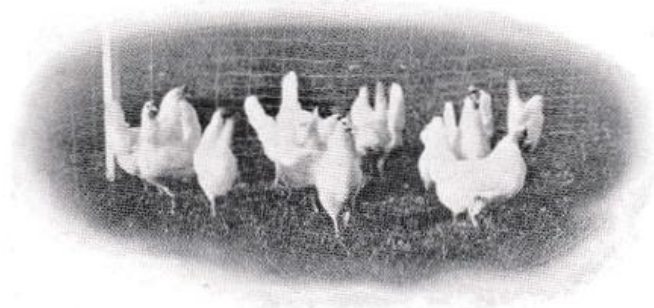
In the garden a small plantation of bush-fruits, comprising the leading varieties and a planting of forty varieties of strawberries, are available for purposes of study. These plants are also used for breeding purposes. The common vegetables are grown in variety. These are used both for class purposes and as a basis for improvement-work.

**POULTRY
HUSBANDRY.**

Poultry-keeping as an industry represents a large factor in the food production of this Province. The demand for more and better poultry throughout British Columbia offers an admirable opportunity for a greatly increased number of specialists in breeding, hatching, and specialized poultry-farming. Climatically, the Province is well adapted to the keeping of all classes of poultry. There are no better markets throughout the Dominion than those at our door.

The necessary area of land to meet the needs of the Department has been made available. Laying, breeding, and brooding houses have been erected, and to these will be added from time to time such buildings as are necessary to meet the demand for instruction and experimental work. There are also incubators, brooders, and special poultry plant equipment for use in teaching and in practice-work by the student. A large number of lantern-slides and charts are available for class-room work.

At the present time the stock consists of twenty pens of well-bred pullets and yearling hens. This stock, representing several different breeds, has been obtained from various experimental stations and breeders who have been breeding for increased production. In working with this stock the student is afforded an excellent opportunity to study type, breed, and variety. Special stock will be brought in from well-known breeders for judging practice.



A FLOCK OF HIGH PRODUCERS, POULTRY DEPARTMENT.

THE LIBRARY.



THE Library of the University consists of about 27,000 bound and 2,500 unbound volumes and 9,000 pamphlets, and is the largest among the universities in the four Western Provinces. It includes a number of representative works in Chemistry, Classics, Economics, Geology, History, Modern Languages, Philosophy, Physics, Technology, and a small but growing collection of works of General Reference. It also includes a fair proportion of complete sets of periodical publications devoted to literature and science, and of the transactions of learned societies.

Small working reference libraries are maintained in the Chemistry and Geology Departments. The number of books added to the Library during the past University year was 3,957. Two hundred and twenty periodical publications are regularly received.

The Library is classified throughout on the Congressional System. The classification is complete except in Religion (BL-BV) and Classics (PA), the schedules for which have not yet been issued by the Library of Congress. In these sections the books are at present grouped in main classes, and arranged in alphabetical order by name of author.

The Main Catalogue in the Reading Room makes available all the classified sections of the Library by author, title, and subject, with necessary analytical references. The Catalogue contains 75,000 cards. The Reading Room accommodates 100 readers.

Books to which the Teaching Staff have specially referred their classes for consultation are placed in "Reserved" stacks in the Reading Room. These works are loaned only for periods during which the Library is closed. Other works may be borrowed by students for a period of seven days, or for a shorter time should the volume be in general demand.

During the session the Library and Reading Room are open from 8.45 a.m. to 5 p.m. and from 7 p.m. to 9 p.m.; on Saturdays from 8.45 a.m. to 5 p.m. During vacation it is open from 9 a.m. to 5 p.m., except on Saturdays, when the hours are from 9 a.m. to 12 noon.



STUDENT ACTIVITIES.



THE University of British Columbia is a democratic institution. The student body is self-governing, controlling its own organized activities through the Students' Council, the executive of the Alma Mater Society, of which every student is a member. By the constitution of the Society the Council is the only authorized and recognized medium to represent the students in their dealings, not alone with the University authorities, but with other organizations and the general public. In addition, it has both executive and judicial powers. On it devolves the responsibility for carrying out policies outlined by the Alma Mater Society. It also is a court, empowered to discipline any undergraduate for conduct unbecoming a university student.

It is evident that such wide powers of student self-government involve large and serious responsibilities. The training in the use of power and responsibility is one of the most valuable benefits derived from university life, and, in the case of this University, has been hitherto amply justified by its results.

In consequence of its establishment at the beginning of the Great War, the University has not as yet developed many normal student activities. The annual dramatic performances of the Players' Club, the Musical Club Concert, and the Inter-collegiate Debate are at present the three major events of the year.

The Players' Club has done much to bring the University to the attention of the general public. For three years it has staged a play in Vancouver and Victoria, and as a result more than \$2,000 has been contributed to the funds of patriotic organizations.

The Musical Club consists of a Men's and Women's Glee Club and an orchestra. It promises to become the largest organization within the Alma Mater Society. The initial public performance was given last year, and resulted in the addition of over \$200 to the University Red Cross Fund.

The Inter-University Debate was established as an annual event in 1915, the University of Washington being the opponent. Last year it was reorganized as a triangular competition, with the University of Oregon as a third contestant. Each University prepares two teams, the affirmative debating at home and the negative abroad. This year the University's negative will meet Washington at Seattle, while the affirmative will try conclusions with Oregon in Vancouver.

It is hoped that the thoroughly friendly relations established by these debates will, now that the war is over, facilitate the founding of Inter-University sports competitions.

The Men's Literary Society each year holds an Oratorical Contest, at which a gold and a silver medal are awarded to the two best speakers. The Class Debates are also superintended by this Society.

In addition to Class Debates, in which a trophy is competed for, the Women's Literary Society organizes a series of interesting and instructive lectures for its weekly meeting during the session.

Because of the war, the students have thus far done little in the realm of athletics, the men who would have represented it on track and field having responded to the Empire's call. With the signing of a permanent peace, and the return of soldier-students from overseas, will come the natural demand for athletic facilities and organization. Women students have organized basket-ball and grass-hockey teams, and swimming, æsthetic dancing, and general gymnastic training is undertaken. This year the men have organized a Rugby Club.

While the University of British Columbia has no School of Journalism, it has its own weekly publication, the "Ubysey." This succeeded "Ubicee," a monthly magazine, issued in 1916 and 1917. The students' weekly newspaper is controlled by the Publication Board. It affords opportunity for developing literary talent, as well as giving to the students a report of occurrences in which they are interested.



THE 'VARSITY RUGBY TEAM, 1918-19.