

**A DIRECTORY OF OPPORTUNITIES
FOR THE VOCATIONAL
TRAINING OF WOMEN IN
THE STATE OF PENNSYLVANIA**

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A Directory of Opportunities for the Vocational Training of Women in the State of Pennsylvania by Mary Ellis Thompson

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MARY ELLIS THOMPSON

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FOR THE VOCATIONAL
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THE STATE OF PENNSYLVANIA**

A DIRECTORY
OF
OPPORTUNITIES FOR THE
VOCATIONAL TRAINING OF WOMEN
IN THE
STATE OF PENNSYLVANIA

Compiled by
MARY ELLIS THOMPSON
for the
Bureau of Information
Woman's Committee, Council of National Defense
(Pennsylvania Division)

PHILADELPHIA
February, 1919

PREFACE

An important lesson which the last two years' experience has impressed upon our national consciousness is the value of knowing some one thing definitely and well. This has been emphasized by the action of the United States Department of Labor in urging men and women to enter into training for some definite work. Statistics have shown that during the war emergency the value to the nation of the trained worker was fifty per cent. higher than that of the untrained, a lesson which loses nothing of its force by the transition from war to peace.

"The work of reconstruction involves not so much new methods of dealing with our problems as a shifting of emphasis and new adaptations," writes a Pittsburgh expert in economic matters. For the past two years we have seen women doing many things which we had been accustomed to judging beyond her ability, endurance and strength. Women in the machine shops have qualified as operators of light and heavy punch presses, screw and milling machines and lathes; as runners of ore-crushers, sorters of scrap iron, nailers, riveters, wire-workers, acetylene welders and solderers of aircraft pontoons; their work has included calking and chipping, pipe-fitting and assembling; in the engineering shops they have taken the drafting rooms by storm—in short they have developed, in an endless variety of industrial and mechanical processes, an ability which has won unstinted commendation from employers in every field. Particularly are they now encouraged in continuing the operation of machines of delicate and complicated build, and processes requiring unusual dexterity and rapidity, as well as in the development of those higher branches of mechanical work from which their lack of training has hitherto excluded them.

Up to the time of the signing of the Armistice, the country was interested chiefly in the quantity and quality of women's work as a contribution to national efficiency. The era of reconstruction brings with it a changed point of view and a new responsibility. It is time for us now to consider this courageous and devoted service of women in relation to their own future welfare; what part of the experience gained may be useful in determining their future career; what we can do to help in conserving and developing the capacities evoked by this experience, and how women's scope of usefulness may thus be amplified and extended to meet the present need.

No less profoundly are we concerned with the future of those who have gladly borne the burden of labor in hospital, hut and canteen here and overseas; with that tireless and victorious army of women on the land; with those who have braved the dangers and disasters of war to help in restoring the devastated hearths of Belgium and France; with those of the so-called leisured classes whose horizon has been broadened and extended by whole-hearted response to their country's call to service. These women have put their hand to the plow and they cannot turn back. Many of them have manifested in their two years' hand to hand encounter with the ele-

mentary facts of life a strength and wisdom which, intelligently directed, should prove an increasingly valuable asset in the trying days to come. We shall have wounded and sick to be soothed and healed, poor to be counseled and befriended, children to be nourished, safeguarded and consoled, bridges to build, laws to be administered, cattle to be raised and corn to be sown when the glamour and excitement of warfare have passed away. We are now fairly launched upon that difficult period of readjustment of which President Wilson wisely said: "There will be urgent need not only for trained leadership in all lines of industrial, commercial, social and civic life, but for a very high average of intelligence and preparation on the part of all the people."

In preparing this directory the effort has been made to include the educational institutions of every county in the State which offer such opportunities as are here enlisted, and if any seem to have been overlooked it has not been for want of attention on the part of the compiler. Especial recognition is due to the helpfulness of Mrs. William Thaw, Jr., Chairman of the Allegheny County Division; and also to Miss Roberta M. West, Chairman of the Standing Committee on Nursing of the Pennsylvania Division of the Council of National Defense, to whom is owing the compilation of the entire main section on Nursing. Mention should also be made of the assistance rendered by the University of Pittsburgh, and of the unceasing kindness of Dean L. V. T. Simmons, of the State College in Center County.

If preference seems to have been given to courses requiring more than a year's study, it must be borne in mind that today the schools and colleges, with very few exceptions, admit special or partial students to instruction in a specified number of the subjects included in a regular curriculum. In many of the evening high schools pupils not having the time to devote to a two or three years' course are encouraged to take one year of study, which is arranged to afford a very satisfactory degree of proficiency in even that limited period.

A brief survey of this sort must be selective rather than inclusive, and many important branches of instruction have necessarily been omitted from this list. Teaching has been excluded for want of time and space to do justice to this very comprehensive subject. The fine arts have been touched upon only in their relation to the industries, and foreign languages have not been included as a separate subject because the question of where such instruction might be found does not seem to present any great amount of difficulty. Ordinary academic courses have naturally been excluded as not belonging in the category of vocational training.

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AGRICULTURAL AND ALLIED SUBJECTS

AGRICULTURE AND ALLIED SUBJECTS

Two-Year Course in Agriculture

PENNSYLVANIA STATE COLLEGE
State College

Subjects: First year: Subjects include special agricultural chemistry or agronomy, breeds of live stock, economic botany, farm dairying, animal or plant breeding, general horticulture, rhetoric, and electives chosen from the following: Stock judging, poultry, live-stock feeding, creamery butter-making, dairy cattle judging, herd books and pedigrees, farm forestry, general vegetable gardening, berry crops, greenhouse building. Second year: Farm problems, electives chosen from the following: Farm crops, farm management, soils, farm buildings, management of beef cattle, horses and mules, anatomy and physiology, poultry, farm meats, market milk, ice cream making, tree fruit culture, vegetables under glass, flower culture, farm and power machinery and farm motors, soil fertility, poultry farm management, dairy cattle feeding and management, etc.

Admission requirements: Sufficient preparation in secondary school subjects. *Tuition:* Free
Minimum age: 18 years *Incidental fees:* About \$50 per year plus laboratory fee
Two years

Short Winter Course in Agriculture

PENNSYLVANIA STATE COLLEGE
State College

Subjects: Soils, soil fertility, principles of breeding. Students may elect subjects from the following list: Cereal crops, hay and forage crops, farm management and accounts, farm machinery and buildings, gas engines and tractors, feeding of farm animals, live-stock management, judging market animals, judging breeding animals, poultry production, testing dairy products, judging dairy cattle, dairy cattle feeding and management, fruit growing, market gardening, plants and their diseases, vegetable forcing, the trees in the woodlot, the farm woodlot, etc.

Admission requirements: At the direction of the Dean. Personal interview required.
Credit: Record card certifying to work performed and degree of proficiency attained
Eight to twelve weeks *Expenses:* Board, lodging and college fees: From \$75 to \$100

Four-Year Course in Agriculture

PENNSYLVANIA STATE COLLEGE
State College

Agronomy

PENNSYLVANIA STATE COLLEGE
State College

Subjects: First year: Subjects include botany, algebra, plant geometry, rhetoric, composition, chemistry, breeds of live stock, principles of dairying, French, German or Spanish. Second year: Agricultural bacteriology, carbon compounds, qualitative analysis, French, German or Spanish, geology, mechanics and heat, general agricultural chemistry, soils, genetics, horticulture, etc. Third year: Subjects include cereals, soils of the United States, soil mapping, commercial fruit growing, elementary zoology, hay, forage, fiber and root crops, farm and power machinery, farm motors, soil fertility, plant breeding, general entomology, farm practice, etc. Fourth year: Farm management, farm buildings and fences, stock judging,

AGRICULTURAL AND ALLIED SUBJECTS

crop production, animal nutrition, dairy management, principles of economics, political parties, etc.

Admission requirements: High school graduation or its equivalent
Credit: Leads to the degree of Bachelor of Science
Tuition: Free
Four years
Incidental fees: About \$50 per year, plus laboratory fee

Animal Husbandry

PENNSYLVANIA STATE COLLEGE
State College

Subjects: The first two years of this course are similar to those of the four-year State College course in Agronomy. Third year: Physiological chemistry, cereals, stock judging, herd books and pedigrees, anatomy and physiology, English and American economic history, elementary zoölogy, hay, forage, fiber and root crops, stock judging, diseases of farm animals, feeding, advanced animal breeding, animal nutrition. Fourth year: Management of beef cattle, horses and mules, poultry, dressing and curing meats, principles of economics, management of sheep and swine, political parties, electives.

Admission requirements: High school graduation or its equivalent
Credit: Leads to the degree of Bachelor of Science
Tuition: Free
Four years
Incidental fees: About \$50 per year, plus laboratory fee

Dairy Husbandry

PENNSYLVANIA STATE COLLEGE
State College

Subjects: First and second years: Same as for State College course in Animal Husbandry. Third year: Testing dairy products, dairy cattle judging, herd books and pedigrees, English and American economic history, elementary zoölogy, dairy bacteriology, electives. Fourth year: Market milk, principles of economics, dairy cattle feeding and management, dairy literature, political parties, electives.

Admission requirements: High school graduation or its equivalent
Credit: Leads to the degree of Bachelor of Science
Tuition: Free
Four years
Incidental fees: About \$50 per year, plus laboratory fee

Short Winter Course in Dairy Husbandry

PENNSYLVANIA STATE COLLEGE
State College

Subjects: A short course in dairy husbandry is incorporated in the eight weeks' winter course in Agriculture. Subjects include testing dairy products, judging dairy cattle, dairy cattle feeding and management, farm butter and cheese-making, dairy farm buildings and equipment, market milk and ice-cream making. (See short Winter Course in Agriculture, Pennsylvania State College.)

Horticultural Course

SCHOOL OF HORTICULTURE FOR WOMEN
Old Lime Kiln Road, Ambler

Subjects: Junior schedule: Fruit culture, floriculture, vegetable gardening, botany, chemistry, practical zoölogy, poultry or bee-keeping, school gardening, rural economy, canning, preserving, carpentry, soils and fertilizers, miscellaneous. Senior schedule: Fruit culture, floriculture, vegetable gardening, landscape gardening (elementary) and drafting, woody ornamentals, botany, practical zoölogy, soils and fertilizers, miscellaneous.

Admission requirements: High school graduation or its equivalent, or examination in the following subjects: English, mathematics, and any two of the following: French, German, Latin, physics, physiology, history. A certificate of health is also required. All students are accepted on six weeks' probation. Minimum age: 18 years

Credit: Diploma
Tuition: \$150 per year
Two years, beginning January
Incidental fees: \$50