

having been spared to make each complete. The farm consists of about one hundred acres, eighty-five of which are used for instruction in the art and science of agriculture and of horticulture.

The departments may be considered under the following heads: (1) General educational advantages being divided as follows:

English language and literature, E. J. MacEwan; math matics, lieutenant, H. D. Styer; science, botany and horticulture, E. S. Richman; chemistry and physiology, S. S. Twombly; biology and hygiene, F. W. Brewer, M. D.; physics, J. A. Midtsoe; philosophy, mental and moral, and political science, President J. H. Paul.

The special department consists of mechanical and civil engineering, the first named being in charge of J. M. Scholl and the last named in charge of S. Fortier.

The industrial department comprises the following divisions: agriculture, A. A. Mills; dairy, F. B. Linfield; wood and iron works, J. W. Mayo; cooking, canning and laundrying, Mrs. D. Cotey; sewing and fancy work, Mrs. E. J. MacEwan; commercial, J. E. Shepherd; military, H. D. Styer, U. S. A. The preparatory department is in charge of J. T. Caine, Jr., with Mrs. S. W. Eddy and W. S. Langton, as assistants. The course in English language and literature is well arranged, and is very complete. The work in English embraces grammar, rhetoric and literature, and runs parallel through all the four year courses as far as the second term of the junior year. The course comprises productions from Shakespeare, Bacon, Milton, Addison, Pope, Gray, Goldsmith, Burns, Wordsworth, Irving, Tennyson, Dickens, Webster, Burke, Macaulay, Carlyle, Motley, and George Eliot. These are given in addition to thorough instruction in English grammar and rhetoric.

The work in physics is: 1. Experiments in Physics—two hours a week during the fall term. 2. General Physics—daily through winter and spring terms. 3. Heat—one hour daily through fall term. 4. Electricity and Magnetism—one hour a day through fall term. 5. Hydraulics—one hour a day during the winter term. 6. Applied Mechanics—one hour a day during the spring and fall terms. 7. Applied Electricity—one hour a day during the spring term.

The work in chemistry comprises: 1. Inorganic Chemistry—five hours a week during the first term. 2. Laboratory—six hours per week for eight weeks in chemical experiments and manipulation. 3. Organic Chemistry—fifty lectures. 4. Qualitative Analysis—course of 150 hours in laboratory investigations. 5. Agricultural Chemistry—course of lectures in the spring term. 6. Determinative Mineralogy, blowpipe analysis, etc.

In order to give an idea of the courses of study offered, a year's work in each of four courses is presented:

AGRICULTURE AND SCIENCE: *Freshman Year.*

Grammar, rhetoric, literature, arithmetic, algebra, military drill, elocution, free hand drawing, experimental physics, history of agriculture, farm buildings and fences, history, description and management of cattle, horses, sheep and hogs, shop work in wood, shop work in iron.

DOMESTIC ARTS.

Sophomore Year.

Botany, organic chemistry, chemistry, cooking lecture, science of nutrition, geometry, bookkeeping, cutting, sewing and designing, rhetoric, horticulture, botany, chemical laboratory, horticultural practice, chemical laboratory cooking practice, work in chemical laboratory, botanical laboratory, cooking laboratory.

MECHANICAL ENGINEERING.

Junior Year.

Heat, hydraulics, applied mechanics, analytical geometry, calculus, military drill, literature, Shakespeare, metallurgy, theory of pattern-making, mechanical drawing, elementary mechanism, civil government, pattern-making, foundry practice, machine and vise work in iron, machine work in iron.

CIVIL ENGINEERING.

Senior Year.

Applied mechanics, power, measurement and transmission, geology, surveying and geodesy, political economy, railroad engineering, military drill, municipal engineering, irrigation engineering, applied electricity, electricity and magnetism, graphical statics, roofs and bridges, experimental work and engineering designs, thesis work.

SHORT COMMERCIAL COURSE.

Senior Year.

Book keeping, commercial arithmetic, political economy, military drill, rhetoric, commercial arithmetic, literature, commercial law, stenography (optional.)

The following is an outline of work in the Domestic Arts department.

One hour a day during the entire Freshman is devoted to sewing. The young women first take an elementary course in the stitches—over handing, running, hemming, back-stitching, felling, over-casting, gathering, button-holes, sewing in gusset, patching on flannel and calico, darning, hem-stitching, etc. This prepares them for the next step, making two muslin garments. Then they cut, fit, and make a dress. They are also taught the use and care of the sewing machine.

One term in the sophomore year is devoted to talks on designing artistic gowns on harmony in color of dress, to draughting dress patterns and further instruction in dress-making.

In the senior year, the young women learn to embroider table linen, and to do Roman cut work and spanish laid-work and other fancy work.

Wood Work—The equipment for bench work in wood, wood-turning and pattern making consists of, thirty benches and ten lathes with necessary tools, pattern makers, rip and cross cutting circular saw, band saw and a variety of special tools.

A branch with a full set of carpenter tools is assigned to each student. In the Freshman year, the exercises in the wood-room include laying out work, sawing, planing, mortising, tenoning, splicing, etc., and in wood turning and circular and scroll sawing.

For forge work—twenty four power blast forges, with anvils, vises, and all necessary tools. In forge work, exercises in drawing, upsetting, bending, welding, annealing, case hardening and the construction and tempering of punches, cold chisels, springs and machine tools.

Dairying—Instruction in dairying

given is by lectures, supplemented by practical work in the dairy. The lectures cover daily recitations for six weeks, the practice work in the dairy to occur three times a week for the same period. The lectures discuss the elaboration, the composition, the fermentation and the testing of milk, and will be accompanied by presentation of the intricate and varied processes of butter and cheese making, closing with the discussion of the building, equipment and management of factories.

The dairy department is thoroughly equipped for the operations of milk testing, butter and cheese making. After the introductory work, each student is required to conduct cheese and butter making through all its processes until the finished product is reached, without relying upon the promptings of the instructor.

Cooking—The art as well as the science taught. Exercises in the application of the knowledge acquired in the lecture room are a regular feature of the work. Lectures in chemistry are succeeded by cooking. The cooking exercises are accompanied by practice in table-setting, table-waiting and presiding at the table as hostess. These exercises develop the knowledge and grace that characterize a well-bred hostess. For the development of this feature of the course the college is provided with a kitchen, dining-room, pantry, a cooking-range and stove, kitchen and table ware, and individual work-tables with full equipment.

Commercial department—Each student rents his own place of business, deposits money in the bank, buys and sells merchandise on all kinds of terms, thereby bringing into daily use such business forms as notes, drafts, checks, bill heads, statements, shipping invoices, account sales, receipts, deposit slips, certificates of deposit, mortgages, deeds, leases, insurance policies, bills of exchange and bills of sale. No two students books are alike. Each one is buying and selling on his own account and recording his own transactions, is relying upon his own judgment under the guidance of instructor. The bank is regularly equipped with books, stationery, etc., affording the student an opportunity to study banking from a practical standpoint. The same relation exists between it and actual students as is found between a bank and business men in actual life.

It is believed that the importance of the work done by the institution is not fully appreciated, and only a visit to the college will give an adequate idea of the work that is being done for Utah's rising generation. A visit will amply repay for the time spent.

Notes.

The president has some projects in view which will be invaluable to the college.

The library is an unusually fine one, especially in the department of English language and literature.

The investigations being made in the different departments of the institution are of inestimable value to the people of the Territory.

President Paul has assumed his duties with an ambition characteristic of his efforts in other educational institutions of the Territory, and undoubtedly will make his administration an eminent success.