

BIENNIAL CATALOGUE

OF THE

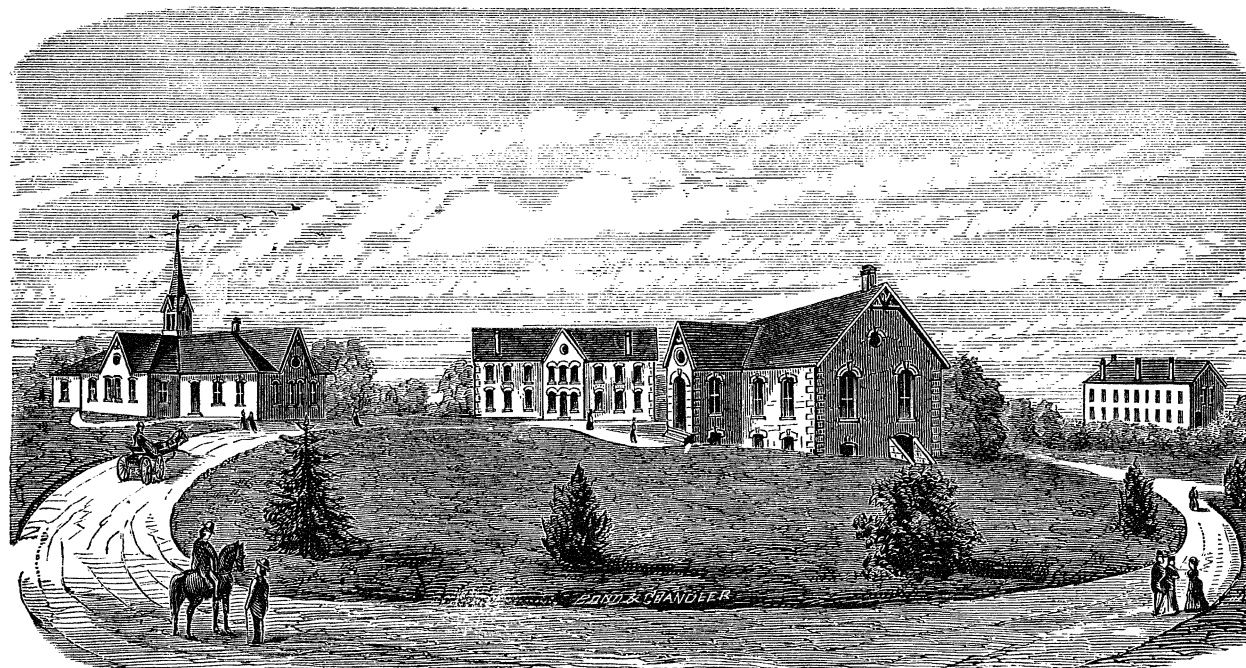
KANSAS

State Agricultural College,

MANHATTAN, KANSAS.

CALENDAR YEARS 1875-77.

MANHATTAN, KANSAS:
PRINTING DEPARTMENT, AGRICULTURAL COLLEGE.
1877.



Laboratory Building.

Mechanical Building.

Horticultural Building.

College Building.

KANSAS STATE AGRICULTURAL COLLEGE.

BIENNIAL CATALOGUE

OF THE

KANSAS

State Agricultural College,

MANHATTAN, KANSAS.

CALENDAR YEARS 1875-77.

MANHATTAN, KANSAS:
PRINTING DEPARTMENT, AGRICULTURAL COLLEGE.
1877.

BOARD OF REGENTS.

M. J. SALTER, *Chairman*, Thayer, Neosho County.
N. A. ADAMS, *Secretary*, Manhattan, Riley County.
J. LAWRENCE, Beloit, Mitchell County.
B. L. KINGSBURY, Burlington, Coffey County.
J. R. HALLOWELL, Columbus, Cherokee County.
STEPHEN M. WOOD, Elmdale, Chase County.
JNO. A. ANDERSON, Manhattan, Riley County.

E. B. PURCELL, *Treasurer*, Manhattan, Kansas.
L. R. ELLIOTT, *Land Agent*, Manhattan, Kansas.
E. GALE, *Loan Commissioner*, Manhattan, Kansas.

FACULTY.

JNO. A. ANDERSON, A. M., *President, Professor Political Economy*.
MILAN L. WARD, A. M., *Professor Mathematics and English*.
WILLIAM K. KEDZIE, M. S., *Professor Chemistry and Physics*.
EDWARD M. SHELTON, M. S., *Professor Practical Agriculture*.
ELBRIDGE GALE, *Professor Botany and Practical Horticulture*.
J. E. PLATT, A. M., *Professor Elementary English and Mathematics*.
JOHN D. WALTERS, *Teacher of Industrial Drawing*.
AMBROSE TODD, *Superintendent Mechanical Department*.
ALBERT A. STEWART, *Superintendent Printing Department*.
WALTER C. STEWART, *Superintendent Telegraph Department*.
MRS. M. E. CRIPPS, *Superintendent Sewing Department*.
MISS CARRIE STEELE, *Teacher of Instrumental Music*.

NON-RESIDENT LECTURER.

HON. D. J. BREWER, *Associate Justice of the Kansas Supreme Court,*
Lecturer on Practical Law.

POLICY.

On the first day of April, 1873, and in accordance with an Act approved March 6, 1873, a new Board of Regents assumed control of the Kansas State Agricultural College. During that summer radical changes were made in the management and methods of the Institution, and on September 3, 1873, the Board officially announced its purposes in the following words :

“For the purpose of defining the policy of the Board of Regents of the Kansas State Agricultural College, and as a guide to the Faculty in preparing a new curriculum :

“*Resolved*, That the object of this Institution is to impart a liberal and practical education to those who desire to qualify themselves for the actual practice of agriculture, the mechanic trades, and industrial arts.

“Prominence shall be given to agriculture and these arts in the proportion that they are severally followed in the State of Kansas.

“Prominence shall be given to the several branches of learning which relate to agriculture and the mechanic arts, according to the directness and value of their relation.”

During the past four years this line has been strictly followed, not merely in profession, but in spirit and fact. The

course of instruction, which as certainly determines the direction of the student's progress as do the iron rails the direction of a train's movement, has been rebuilt and fully conformed to this policy. The several departments of instruction have been entirely reconstructed; and are manned by able and enthusiastic specialists, harmoniously working with brain and hand for the speediest attainment of the designated object. To the outer limit of the facilities at their disposal, both the Regents and their appointees have used all legitimate means, and made every effort, to put within easy reach of the working classes of Kansas exactly that knowledge and physical drill which are of most value to those who expect to earn a livelihood by farming or the other industrial vocations.

A party of gentlemen may agree to visit foreign countries, and, by using the proper means, execute their purpose. On returning they may state, without vanity or egotism, that they had procured valuable articles which were the only ones of the sort in this country. It is in exactly this and no other spirit that, in speaking of the progress made in developing the policy adopted by the Board in 1873, we claim that Kansas has an Agricultural College which differs radically and advantageously from all other institutions in the United States; that it furnishes a mental education having less superfluous bosh and possessing more real value to the boys and girls who will have to make a living by working than can be obtained elsewhere; that it affords a mental discipline equal to that of any other institution; and that it gives a manual training which cannot be found elsewhere.

INDUSTRIAL EDUCATION.

The real value of an education to the student depends upon two things: First, the practical worth of the knowledge taught; and, second, the degree in which he makes it his own. Hence, the ability of any institution to give a practical education depends upon the kind and aim of the knowledge it teaches, and upon the thoroughness of the instruction therein.

The State Agricultural College was directly endowed by Con-

gress, and is guided by the State, for the specific purpose of furnishing to the industrial classes of Kansas a "practical" education, that is, "one fit for use." As its name indicates, and as the statistics of the industries of the State require, its chief work must be that of giving a useful and usable education to those who will engage in farming; and, therefore, the Farmer's Course must, from the nature of the case, be its main one.

FARMER'S EDUCATION.

Words and figures are merely instruments with which to record ideas. They are not themselves ideas, nor should they be made the chief end of an education. As a wagon is necessary to haul grain, so are they a necessary part of education; but as the wagon is not the grain, so they are not the knowledge which the farmer converts into money. Hence the classics and higher mathematics are not taught. But it will be noticed in the following course that so soon as the pupil acquires working skill in the use of the English language as a tool, and of figures and lines as mathematical tools, those arts and sciences which present knowledge that has a cash value to the farmer are taught as rapidly as their importance and thorough acquisition will permit. Studies numbered (1) and (4) in the second, third and fourth years are the spine of the course, to which the others are as ribs and muscle. Explanatory details will be found on subsequent pages:

FARMER'S COURSE.

FIRST YEAR.

FALL TERM.

1. Drill in English.
2. Drill in Arithmetic.
3. Industrial Drawing.

SPRING TERM.

4. English Structure.
5. Adv'd Arithmetic, Book-keeping.
6. U. S. History, Industrial Drawing.

SECOND YEAR.

FALL TERM.

1. Physiology.
2. Rhetoric.
3. Algebra.

SPRING TERM.

4. Practical Agriculture (elementary).
5. Physics.
6. Industrial Drawing.

THIRD YEAR.

FALL TERM.

1. Botany, Entomology.
2. Inorganic Chemistry.
3. Practical Geometry.

SPRING TERM.

4. Prac. Horticult., Landscape Gard'ng.
5. Organic and Analytical Chemistry.
6. Practical Surveying.

FOURTH YEAR.

FALL TERM.

1. Practical Agriculture (advanced).
2. Geology, Mineralogy.
3. Political Economy, Practical Law.

SPRING TERM.

4. Zoology.
5. Agricult'l Chemistry, Meteorology.
6. Logic.

WOMAN'S EDUCATION.

Nearly one-half of our students are females, and the Woman's Course is prepared expressly for their liberal and practical education. We have no doubt whatever that practical men and women, who understand what it means and what it seeks to do, will fully endorse it. For details see synopsis given by the several departments:

*WOMAN'S COURSE.**FIRST YEAR.**FALL TERM.*

1. Drill in English.
2. Drill in Arithmetic.
3. Industrial Drawing.

SPRING TERM.

4. English Structure.
5. Adv'd Arithmetic, Book-keeping.
6. U. S. History, Industrial Drawing.

*SECOND YEAR.**FALL TERM.*

1. Physiology.
2. Rhetoric.
3. Algebra.

SPRING TERM.

4. English Literature.
5. Physics.
6. Industrial Drawing.

*THIRD YEAR.**FALL TERM.*

1. Botany, Entomology.
2. Inorganic Chemistry.
3. Industrial Drawing.

SPRING TERM.

4. Prac. Horticul., Landscape Gard'ng.
5. Organic and Household Chemistry.
6. Household Economy.

*FOURTH YEAR.**FALL TERM.*

1. Farm Economy, Special Hygiene.
2. Geology, Mineralogy.
3. Political Economy, Practical Law.

SPRING TERM.

4. Zoology.
5. Physical Geography, Meteorology.
6. Logic.

MECHANIC'S EDUCATION.

The number of students received during our day who have really purposed to become mechanics, and, therefore, who were justly entitled to a special course preparatory thereto, has been relatively very small. In view of this fact, and of the present resources of the Institution, together with the adaptedness of the leading course to the wants of the intelligent mechanic, it has been found practically unnecessary to diverge from the Farmer's Course. Additional studies, specially adapted to the mechanic's use will be furnished in a Post-Graduate's Course. But the above course as it stands, and in the order of its standing, will be followed by all male students.

If it be urged that the distinctively agricultural knowledge taught in the Farmer's Course is not directly valuable to the mechanic, we reply that, admitting the point for the purpose of argument, yet: 1. This knowledge is of more practical value to

the mechanic than is the Latin, Greek, or a half dozen other things embraced in the usual course preparatory to the professions; 2. That the great majority of Kansas mechanics will also be more or less engaged in agriculture; 3. That those studies in the course which are directly valuable to the mechanic, together with the shop facilities, offer a better mechanic's education than can be elsewhere found west of the Alleghanies.

INDUSTRIAL DEPARTMENTS.

Having knowledge in the head is one thing; ability to use it with the tongue, fingers or feet is quite another thing. Both are vital to success in practical life. A man might thoroughly understand the theoretical principles of carpentry, and yet, not having used the tools, be wholly unable to earn carpenter's wages. So in all other vocations. Accordingly, instruction is given in the following well-equipped Industrial Departments, and every student is required to recite in some one of them, as selected by the pupil or parent:

FOR MALE STUDENTS.

The Farm.
The Nursery.
Carpentry.
Cabinet-making.
Turning.
Wagon-making.
Painting.
Blacksmithing.

FOR FEMALE STUDENTS.

Dress-Making.
Printing.
Telegraphy.
Scroll-Sawing.
Carving.
Engraving.
Photography.
Instrumental Music.

Each of these departments is conducted exactly as in daily life, and aims to give precisely the drill received by an apprentice. No charge is made, either for tuition or material, from male students taking the Industrials provided for them; nor from female students taking the ones provided for them, except in the Department of Instrumental Music, where the usual fee is assessed for the use of pianos or organs. Male students taking either Printing or Telegraphy are charged \$1 per month for the use of material and instruments.

DEPARTMENTS OF INSTRUCTION.

PRACTICAL AGRICULTURE.

Second Year: General principles of breeding; history and characteristics of breeds; adaptation of different breeds for special purposes and localities; implements of simple tillage;

mechanical principles involved in their construction ; action of the plow upon soil and subsoil ; principles of draught ; influence of different adjustments upon draught ; use of the dynamometer ; value of hoed crops in a system of husbandry ; the cultivation of corn and roots ; soils that need drainage ; how to lay out a system of drains ; house drainage ; sewerage.

Fourth Year : General view of agriculture, ancient and modern ; agricultural progress of the last century ; relative advantages of mixed husbandry and special farming ; the selection and arrangement of the farm with reference to the system to be pursued ; rotation of crops ; general advantages of a rotation ; the best rotation with reference to disposition of labor, production of manure, and extermination of weeds ; pasturage and production of grain and forage crops ; manures, how best housed and applied ; composting manures ; commercial fertilizers ; systems of feeding ; stall feeding ; steaming food ; soiling ; experiments in feeding ; farm buildings ; farm houses ; barns.

FARM ECONOMY.

Woman's Course, Fourth Year : Dairy products as human food ; influences affecting character of milk ; manufacture of condensed milk ; the factory system and household plan of cheese-making ; treatment of rennet ; general process of cheese manufacture ; subsequent treatment of cheese ; butter-making ; creameries ; "deep" and "shallow" setting systems ; general process of butter-making ; packing and preserving butter.

BOTANY AND PRACTICAL HORTICULTURE.

This department embraces a course of instruction in the elements of botany, structural and systematic, with a constant attention to the practical application of botany to the farm, orchard, garden, nursery and forest ; also a course of lectures on Landscape Gardening. The instruction is mainly given by lectures, accompanied by regular practical drill in all the work of the fruit, vegetable and flower gardens, nursery, orchard, vineyard and ornamental grounds.

The lectures in Practical Horticulture embrace the following and kindred subjects : The relation of atmospheric motion, moisture and temperature to horticulture ; seeds, the means of collecting and preserving ; propagation, by seeds, cuttings, layers, suckers, grafting, budding ; care of young plants ; improvement

of varieties; management of commercial and farm nursery; modes of pruning; the orchard; fruit suitable for orchard and garden culture; the flower, vegetable and fruit garden; importance and mode of forest culture; shelter belts and their influence; weeds and useful plants; noting the species of trees worthy of culture, either for profit or ornament.

The lectures on Landscape Gardening not only unfold the accepted principles of the art, but at the same time give special attention to such applications of the art as may be made universally available in the laying out and improvement of farms and the homes of the people. These lectures are accompanied by a practical drill in the work of laying out and plotting grounds topographically.

CHEMICAL DEPARTMENT.

PHYSICS.

This includes a full consideration of the laws of mechanics, of liquids, gases and vapors, weights and measures, and specific gravity, followed by experimental study in the Physical Laboratory of the laws of heat, light, with spectrum analysis, electricity and magnetism, and the relation of these forces to plant and animal life. Text-book, Ganot.

INORGANIC CHEMISTRY.

This course is opened with a careful study of chemical forces and of the laws governing chemical combination. The elements, with their compounds, are next considered in succession as to their history, properties, manufacture, and especially with regard to their uses on the farm and in the arts. These lectures are accompanied by an extended course of laboratory practice in which each student performs every experiment with his own hands. Text-book, Eliot & Storer.

ORGANIC CHEMISTRY.

This comprises a thorough study of the chemistry of organic compounds, the composition of plants and of the various compounds derived from them. Constantly accompanied by laboratory practice.

CHEMICAL ANALYSIS.

In this course each student is furnished his stand in the Qualitative Laboratory, completely furnished with apparatus

and chemicals for his own use. He here performs analyses of farm soils, plant ash, commercial manures, ores, mineral waters, commercial compounds, etc. After completing this course, he then enters, if he desires, the Quantitative Laboratory, where he pursues a full course in quantitative analysis. Text-book, Kedzie's Manual.

AGRICULTURAL CHEMISTRY.

This includes a thorough consideration of the application of chemical principles to the economy of the farm; the origin and formation of soils; the classification and composition of soils; the analysis of soils and their adaptation to purposes of production; the composition and uses of manures; composting; chemistry of farm operations, such as plowing, fallowing, draining, etc. Text-book, Johnson's "How Crops Feed."

METEOROLOGY.

Embracing the composition of the atmosphere; atmospheric pressure; temperature and humidity; laws of storms; rain, snow and atmospheric electricity. A full course in meteorological observations is taken under direction of the Signal Service. Text-book, Loomis' Meteorology.

MINERALOGY.

This includes the study of the laws of crystallography, with the properties, forms and uses of the principal minerals of the United States. Blow-pipe analysis forms a very important part of the course, each student being required to name and identify a large series of minerals. Text-book, Dana's Mineralogy.

HOUSEHOLD CHEMISTRY.

A course of lectures upon this subject is yearly delivered to a class of young ladies. The course embraces the chemistry of cooking; the composition of food; bread; tea, chocolate and coffee; butter and milk; ripening and preservation of fruits, etc.

SPECIAL COURSES

Are constantly in progress in Assaying, Pharmaceutical Chemistry and Photography.

ENGLISH LANGUAGE.

Words are simply tools used to express ideas; and, since the vast majority of our communications are made by the employment of spoken or written words, skill in using them is as profit-

able to the industrialist as is dexterity with the needle profitable to the seamstress. The direct aim of the course is to make the student skillful and intelligent in handling the machinery called language, just as an engineer handles a locomotive; and no drill will be omitted, or effort spared, to gain this end. Apart from the course itself, which is far more practical and complete than that usually found in literary colleges, the constant attention given this subject by all the departments, and especially the practice required in the printing classes, affords superior advantages to the student.

DRILL IN ENGLISH.

"As grammar was made after language, so ought it to be taught after language."—HERBERT SPENCER.

Drill in English embraces the following topics:

Sounds of the language; drill in producing the vocal, sub-vocal and aspirate elements with accuracy, distinctness and volume; vowels, consonants.

Letters: Form; power; rules for spelling, drill.

Words: Signification, properties, modifications, variations, relation and dependence.

Sentences: Drill in statement of ideas; description, clearness, terseness, vigor; business letters, discussion; capitalization; syllabication; punctuation; construction and analysis of sentences; elements, uses and names; criticism of compositions printed as written; proof reading; grammatical construction; superfluous words and clauses; drill in reading, speaking and penmanship.

Text-Books: Webster's Academic Dictionary; Lee and Hadley's Advanced Lessons in Language.

Pupils deficient in spelling, etc., should enter the printing class, the printing-office being the work-shop of language.

STRUCTURE OF ENGLISH.

ELEMENTS OF WORDS.—The end aimed at in this study is to learn everything about words which will aid in their effective use. Among the topics included are:

Roots: What they are; their origin; their force and value as an element of language; the manner of their growth into different parts of speech.

Stems: Their derivation; their offices and properties; their relations to the other parts of words.

Prefixes and Suffixes: The several sources whence derived;

the relation of their force or significance to those sources; explanation of the laws and principles governing their use along with stems.

Compounds: Their value; their properties and uses; the laws governing their formation.

Synonyms: Definitions; causes of their abundance in English; the principles to be observed in choosing among them, to express a thought.

Criticism: This constitutes a prominent part of the exercises of the pupil through his whole course in the study of English. It not only diversifies and enlivens the class-room exercises, but reduces to practice the principles of the structure of the language. By this means, the student acquires not only a knowledge of English, but readiness, skill and accuracy in speaking or writing it. The exercises in criticism embrace not only examination of selected matter, but original composition.

ELEMENTS OF SENTENCES.—The purpose in view in studying this subject is not to traverse the ground gone over in the study of grammar, but to fix in the mind of the student a clear understanding and remembrance of names, the properties and offices of the several classes of words entering into an English sentence, by showing him the reason of things; to make more simple, as well as interesting and practically useful, a study otherwise "dry and unprofitable" in many cases, by explaining the reason of the verbal forms and changes, the rules and maxims he is to remember and observe in his use of language. In the same manner he is conducted through a study of the mutual relations and dependencies of the several elements making up a sentence.

MATHEMATICS.

Figures and lines, like words, are only instruments with which to convey ideas, or perform operations, that cannot be easily done without them. The arithmetical principles used in business are few and simple; but accuracy and rapidity in computation are only gained by practice. College graduates often fail to retain clerkships, not because they do not know *why* given operations are performed, but because they can neither add, multiply nor divide with that habitual correctness which renders their work reliable.

DRILL IN ARITHMETIC.

The chief design of this study is to make the student expert in the use of numbers, as employed by the industrialist for profit. The occupation of a successful farmer demands the application of every principle of practical arithmetic, and is taken as a starting point, rather than that of an abstract system. Beginning with a simple cash account, book-keeping is gradually developed to the full extent of its real utility. The areas of fields, expense of crops, construction of houses, sales of produce, and investment of capital, involve all the fundamental operations, and those of profit and loss, commission, taxes, insurance, exchange and stocks. Following this line, the student, so far from hammering away at "pure" science, draws from the mathematical store-house what he needs, and sees why he needs it. Accuracy of calculation and posting, rather than a mere comprehension of the principles, is aimed at. Besides the recitation-room drill in business forms, practice in the field is also given. Estimating the number of cords in a pile of wood said to be 100x4x4 feet is one thing; measuring a pile of wood, through which any number of cats may be harmlessly thrown, and in which four feet sticks are the exception, is quite another and more difficult thing.

ARITHMETIC AND BOOK-KEEPING

Is a continuation of the above, having the same purpose and adopting such methods as the necessities of the class indicate. Thorough instruction in the principles and forms of business law is given. It will be seen that this method of teaching book-keeping, besides ensuring arithmetical practice, develops practical skill in that important art.

ALGEBRA.

Algebra is included in the course as a preparation for the study of Surveying.

DRAWING.

The practical value of Industrial Drawing can hardly be over-estimated, first, because its study is the best drill for the development of the perceptive faculties, which are the ones most employed in daily life; and, second, because the working classes make a far greater use of lines than they do of figures. A farmer follows a line when laying a straight furrow; the car-

penter uses the square and rule twenty times as often as he does figures; and a woman in cutting a pattern, or deciding that one bonnet is prettier than another, does so by the line or "form." So that either in its direct application, or in the exercise of that taste which comes from skill in using lines, this branch of mathematics is quite as important as a means of "mental discipline" as is the branch of computation, and is of far greater daily use. The admirable system of Prof. Walter Smith, Art Director of Massachusetts, is thoroughly followed through the grades of Free-hand, Geometrical, Object, Model, Perspective, Mechanical, and Topographical Drawing, during the terms indicated by the Course of Study. In addition, constant practice in the application of lines to metal and wood is furnished in the Blacksmith, Carpenter, Turning, Scroll-sawing, Carving, Engraving and Printing shops, and to fabrics in the Sewing Department.

PRACTICAL GEOMETRY.

Not one farmer in a thousand ever uses the transit in surveying his land, the testimony of the county surveyor being decisive in court; but every farmer makes countless applications of lines and angles in laying off fields, roads, gardens, planning houses, determining levels, etc. The object of Practical Geometry is to teach the properties and uses of angles, and to make the student skillful in the application of lines to the field by the use of such simple instruments as are always within reach, or within his ability to construct; and accurate in the transferring of plans to the grounds, board, or block.

PRACTICAL SURVEYING.

The drill in the use of figures and lines given by the mathematical course as above indicated renders the mastery of surveying an easy task. There is no calculation made or formula used by the working engineer which cannot be readily understood and performed by a skillful arithmetician after proper instruction. The hand-book of the engineer is accordingly supplemented with such special guidance as is found necessary for a full comprehension of the mathematical principles and their applications; and extended field practice is required in the use of the compass, level, transit and theodolite.

STUDIES SPECIAL TO WOMAN.

Besides the studies already indicated, attention is called to the following:

SPECIAL HYGIENE.

As shown in the course, one term is devoted to the study of Physiology, from the text-book of Dr. J. C. Dalton. This is followed in the fourth year by a course of lectures to young ladies by Mrs. Cripps on the subject of Hygiene, embracing such applications of physiological truths and such instruction in hygienic matters as are valuable to woman.

FARM ECONOMY considers those affairs of the farm which usually come under the supervision of the farmer's wife or daughter, and which are not included in "gardening" or "household economy;" such as butter and cheese-making, dairy management, etc. A course of lectures is delivered by the Professor of Practical Agriculture. See page 8.

GARDENING is included in Practical Horticulture. See page 9.

HOUSEHOLD CHEMISTRY. See Chemical Department, page 10.

HOUSEHOLD ECONOMY

Follows Household Chemistry and consists of lectures by Mrs. Cripps in the art of house-keeping, embracing cookery, domestic management, and kindred topics. Many elderly gentlemen sufficiently know, and more young gentlemen will duly discover, that systematic knowledge of how cooking ought to be done is luminously different from the ability to do it.* Instruction without practice can effect but little. Accordingly, a kitchen laboratory has been completely furnished, and affords every facility for drill in the art of cooking. This drill chiefly differs from that of a kitchen in the respect that after a girl has learned to wash dishes or pare potatoes she is not kept everlastingly at either. After full trial we have found it just as feasible to give this practice, with profit and pleasure to the pupil, as it is to give laboratory practice in chemistry — and no more expensive.

*There can hardly be a better illustration of the practical difference between "science" and "art," or one which flashes through humanity with greater vividity! If the happiness of men depended as much upon the efficiency of agencies for the "mental discipline" and "culture" of women as it does upon their housewifely ability, the owlism would have been punched out of a score of very respectable studies long ago.—J. A. A.

GENERAL INFORMATION.

BUILDINGS.

OLD COLLEGE BUILDING.—Stone, three stories, 40x60, nine rooms, used for library, cabinet and dormitories. One mile distant from following:

COLLEGE BUILDING.—Stone, 42x100, two stories, containing chapel and ten recitation rooms. It was designed for a barn, but is now used by the Literary Departments.

LABORATORY.—Cross form, 109x109, one story, stone, containing a lecture room, office, balance room and four large laboratories.

HORTICULTURAL BUILDING.—Stone, one story and basement, 31x80, five rooms for recitations, work-shop, etc.

MECHANICAL BUILDING.—Stone, 38x102, two stories, seven rooms, containing Wood Shops, Printing, Telegraph, Sewing, and Instrumental Music Departments.

BARN.—Stone, one story and basement, 46x96, furnishing accommodations for forty head of cattle and eight horses, with granaries, harness room, etc.

BLACKSMITH SHOP.—Wood, 20x40; two forges.

ILLUSTRATIVE APPARATUS.

A FARM of 185 acres, thoroughly equipped and cultivated. Short-horn, Devon, Jersey and Galloway cattle; Berkshire and Essex swine; etc., etc.

A NURSERY of 30 acres, thoroughly equipped and stocked with experimental apple, pear and peach orchards, vineyard, small fruits, etc.

THE CHEMICAL DEPARTMENT, with its new Laboratory and appliances, is practically equal to any in the United States.

THE MECHANICAL DEPARTMENT has twenty-five kits of carpenter's tools; lathes, scroll-saws, etc.; and a well furnished blacksmith shop.

THE SEWING DEPARTMENT is well equipped with machines and appliances.

THE MATHEMATICAL DEPARTMENT is supplied with the appliances necessary for study and practice in surveying.

THE PRINTING DEPARTMENT has twenty-six pairs of cases; presses, etc.

THE TELEGRAPH DEPARTMENT has four miles of line, twenty-five instruments, and every facility for practical instruction.

TERMS OF ADMISSION.

Candidates for admission must be fourteen years of age, and pass a satisfactory examination in reading; arithmetic, through decimal fractions; English grammar, to syntax. Classes are started at the beginning of each year in Drill in Arithmetic and Drill in English; and the pupil must have the knowledge above indicated, else he will be unable to retain position if admitted.

Pupils will be received at any time during the year, if able to pass an additional examination upon the subjects studied by the classes which they expect to enter. But they will find it very greatly to their advantage to be present at the opening of each term, or as soon thereafter as possible.

GRADES.

Both the Literary and Industrial recitations are graded daily upon a scale of 100; and an examination of all classes is made at the close of each month. A student not attaining an average grade of sixty is promptly dropped to a lower class, or excluded from the Institution until able to do so. The work of grading is strict and uniform in all the departments, and this process is rigorously used for sifting out incompetent and indolent pupils; thus more than accomplishing all that is designed to be effected by a "high standard of admission." Hence, the student's continuance in the College wholly depends upon his own action.

The course is based upon the determination to make the labor required in the preparation of one industrial and of three literary recitations as much as the average student can healthfully perform, in ten hours a day. We design to give the pupil the worth of the time expended at College; and, in order thereto, he must do a full day's real work with brain or hand. Only those students who can maintain a standing of ninety in each study will be allowed to take more than the prescribed number of recitations; and no one will be permitted to have less than one industrial and three literary recitations.

RELIGIOUS.

Unless otherwise directed by parents, students are required to attend chapel at 8:30 A. M., on academic days, and divine service once every Sabbath.

EXPENSES.

Except as above noted, there are no charges whatever for attendance, either in the shape of tuition or contingent fees. Furnishing an absolutely free education is as much as can be reasonably asked; and the Institution neither boards, clothes, nor supplies the student with text-books. Boarding can be obtained in private families at from \$3 to \$4 per week. Washing costs from seventy-five cents to one dollar per dozen. Text-books, which can be procured in Manhattan, cost from \$2.50 to \$5 per term.

No student need expend over \$5 or \$5.50 per week; and many of our best men are living at from \$2 to \$4 per week. Students desiring to "board themselves" can do so at from \$1.25 to \$2 per week. In a club of four young men, renting a house, the average cost to each for the term was \$1.11 per week.

LABOR.

Manual labor by the students may be for either of two purposes: First, to acquire skill in a given art; second, to earn money. In the first case, the labor is educational; in the second, it should be paid for by the party benefited.

EDUCATIONAL LABOR.—Manual labor in the recitations of the Industrial Departments, like mental labor in those of the Literary Departments, is purely educational and will not be remunerated. While the interest of the student will be held paramount in the direction of this labor, the practice necessary to dexterity will be required.

REMUNERATED LABOR.—When the Institution needs labor on the Farm or elsewhere which is not educational, but simply for its own profit, and which a student is able and willing to perform, it becomes an employer instead of a teacher, and he an employe instead of a scholar. It pays for work; he works for pay. The relation between them is commercial, not educational; and both parties must act upon business principles. Hence, the College will only furnish such employment as its own interests require, and will pay according to the value of the service rendered at from seven to ten cents an hour.

AMOUNT EARNED.

It is impossible to say how much any one can earn, since that depends upon what the student can do and what work there is to be done. Some are making one-half their expenses, some the whole, and exceptional men have made more than expenses. As a rule, a faithful boy skilled in farm work can earn half his expenses by entering the Labor Class of Practical Agriculture. During the year he can ordinarily acquire sufficient skill in the wood or iron shops to enable him to make articles for sale. The whole question is one for his own consideration and decision; and he should not be too sanguine. We can teach all who come, but it is impossible for us to *promise* anything more. Hitherto we have refrained from holding out strong inducements respecting the amount of labor we might have to offer; but in view of the fact that during the last three years we have had more to do than the students could perform, we are inclined to give greater encouragement on this point. Any boy who is in dead earnest, who is familiar with farm operations, and who can raise \$50 to start with, should be able to carry himself through the four years' course.

RULES.

1. Behave as a true man or woman should, at all times and in all places.
2. Attend to your own business promptly, thoroughly and courteously; and vigorously let alone that of other people.
3. Penalty: "Leave!"

CALENDAR.

FALL TERM 1877.—Begins Thursday, August 23d, and closes Thursday, December 20th.

SPRING TERM 1878.—Begins Thursday, January 3d, and will close Wednesday, May 22d.

PUBLICATIONS.

The "HAND-BOOK," published in 1874, containing a full discussion of the educational question and the aims of the Institution, will be forwarded to any one desiring it.

THE INDUSTRIALIST, a weekly journal edited by the Faculty and published by the Printing Department, contains original and seasonable articles on the Farm, Orchard, Trades, Sciences, and Education. Price, 75 cents a year. Address, A. A. Stewart, Manhattan.

LIST OF STUDENTS

ENROLLED FROM

JANUARY 7th, 1875, to MAY 23d, 1877.

| NAME. | POST-OFFICE. | COUNTY. |
|------------------------|--------------|---------------|
| Abbott, Frank C. | Manhattan | Riley. |
| Adams, Emma L. | Manhattan | Riley. |
| Allen, Edwin R. | Toledo | Chase. |
| Anderson, Bernhard | Lindsburg | McPherson. |
| Arnold, Joseph F. | Columbus | Indiana. |
| Bailey, William E. | Lyndon | Osage. |
| Bayles, John | Manhattan | Riley. |
| Béals, Sarah F. | Toledo | Chase. |
| Beamer, David A. | Netawaka | Jackson. |
| Beck, John W. | Manhattan | Riley. |
| Beckwith, Anson | Washington | Washington. |
| Beckwith, Weldon E. | Wabaunsee | Wabaunsee. |
| Bell, Franklin P. | Towanda | Butler. |
| Benedict, Flora | Vienna | Pottawatomie. |
| Benjamin, Daniel A. | Effingham | Atchison. |
| Benjamin, Emery W. | Effingham | Atchison. |
| Bissell, Edgar | Phillipsburg | Phillips. |
| Blain, Arthur T. | Manhattan | Riley. |
| Blanc, John H. | Strawn | Coffey. |
| Bletcher, Frederick A. | Reedville | Marshall. |
| Boies, Frank | Valley Falls | Jefferson. |
| Boley, Mary B. | Manhattan | Riley. |
| Brady, Louis R. | Manhattan | Riley. |
| Branson, Martin H. | Eureka | Greenwood. |
| Branson, Samuel F. | Eureka | Greenwood. |
| Briggs, Harry | Manhattan | Riley. |
| Brous, Frank D. | Manhattan | Riley. |
| Brous, Wilber | Manhattan | Riley. |
| Brown, Ada E. | Manhattan | Riley. |
| Brown, Cortez | Round Grove | Washington. |

| NAME. | POST-OFFICE. | COUNTY. |
|----------------------------|--------------------|-------------------|
| Brown, Mark L..... | Manhattan..... | Riley. |
| Browning, Alice..... | Manhattan..... | Riley. |
| Browning, Emma E..... | Manhattan..... | Riley. |
| Browning, Lois..... | Manhattan..... | Riley. |
| Buell, C. Stewart..... | Binghamton..... | New York. |
| Buell, Delight A..... | Binghamton..... | New York. |
| Buel, George K..... | Wabaunsee..... | Wabaunsee. |
| Buell, Walter A..... | Binghamton..... | New York. |
| Buel, Warren C..... | Pavilion..... | Wabaunsee. |
| Burnham, William P..... | Fort Bayard..... | New Mexico. |
| Burroughs, Arlettie J..... | Manhattan..... | Riley. |
| Burroughs, Frank C..... | Manhattan..... | Riley. |
| Caldwell, Thomas J..... | Carlyle..... | Allen. |
| Campbell, Emma..... | Manhattan..... | Riley. |
| Campbell, Ettie A..... | Manhattan..... | Riley. |
| Campbell, Fannie A..... | Manhattan..... | Riley. |
| Campbell, Flora A..... | Circleville..... | Jackson. |
| Campbell, Florence A..... | Manhattan..... | Riley. |
| Campbell, May..... | Manhattan..... | Riley. |
| Campbell, William A..... | Manhattan..... | Riley. |
| Campdoras, Leon S..... | North Topeka..... | Shawnee. |
| Cannon, William R..... | Carlyle..... | Allen. |
| Carpenter, Mattie A..... | Topeka..... | Shawnee. |
| Chamberlain, Willis P..... | Manhattan..... | Riley. |
| Child, Ella S..... | Manhattan..... | Riley. |
| Clark, Anna C..... | Manhattan..... | Riley. |
| Coffey, Winnie..... | Manhattan..... | Riley. |
| Cole, Fannie L..... | Manhattan..... | Riley. |
| Conroy, Emma..... | Manhattan..... | Riley. |
| Copley, Albert..... | Perry..... | Jefferson. |
| Copley, John T..... | Perry..... | Jefferson. |
| Cotton, Fred L..... | Wabaunsee..... | Wabaunsee. |
| Cotton, Kate H..... | Wabaunsee..... | Wabaunsee. |
| Cox, George A..... | Junction City..... | Davis. |
| Cox, Lizzie R..... | Junction City..... | Davis. |
| Craig, Addie J..... | Manhattan..... | Riley. |
| Craig, Sarah..... | Manhattan..... | Riley. |
| Cripps, Edward V..... | Lyndon..... | Osage. |
| Crouse, Clay C..... | Oswego..... | Labette. |
| Crowl, Florence..... | St. George..... | Pottawatomie. |
| Crowl, Jessie C..... | St. George..... | Pottawatomie. |
| Damon, Rosa M..... | Manhattan..... | Riley. |
| Davidson, George K..... | Fort Sill..... | Indian Territory. |
| Davidson, William B..... | Fort Sill..... | Indian Territory. |
| DeForest, Rodman A..... | Wetmore..... | Nemaha. |

| NAME. | POST-OFFICE. | COUNTY. |
|---------------------------|-------------------|---------------|
| Degraw, Ettie U..... | Vienna..... | Pottawatomie. |
| Delahay, Charles..... | Leavenworth..... | Leavenworth. |
| Dellinger, John F..... | La Cygne..... | Linn. |
| Dow, Charles A..... | Hartford..... | Lyon. |
| Dunbar, Lottie R..... | Topeka..... | Shawnee. |
| Dutcher, A. J..... | Manhattan..... | Riley. |
| Dutcher, Matie..... | Manhattan..... | Riley. |
| Eckman, Emma F..... | Osborne City..... | Osborne. |
| Eckman, Wilmer K..... | Osborne City..... | Osborne. |
| Eells, Allan B..... | Manhattan..... | Riley. |
| Eells, Hattie M..... | Manhattan..... | Riley. |
| Elliot, Willard S..... | Manhattan..... | Riley. |
| Ellsworth, Miles..... | Effingham..... | Atchison. |
| Emmons, George E..... | St. George..... | Pottawatomie. |
| Emmons, Joseph N..... | St. George..... | Pottawatomie. |
| Engle, Charles E..... | Manhattan..... | Riley. |
| Engle, Laura..... | Manhattan..... | Riley. |
| Ensign, Ellen J..... | Pavilion..... | Wabaunsee. |
| Ensign, Francis..... | Pavilion..... | Wabaunsee. |
| Ernst, William..... | Emporia..... | Lyon. |
| Esdon, Maggie..... | Manhattan..... | Riley. |
| Evans, Esther E..... | Plainfield..... | Illinois. |
| Everhart, Logan..... | Parsons..... | Labette. |
| Failyer, George H..... | Columbus..... | Cherokee. |
| Failyer, Mariam..... | Columbus..... | Cherokee. |
| Failyer, Miriam..... | Columbus..... | Cherokee. |
| Fawley, Abram..... | Milford..... | Davis. |
| Fay, Charles W..... | Ogden..... | Riley. |
| Fields, William H..... | Manhattan..... | Riley. |
| Flack, Annie C..... | Enterprise..... | Dickinson. |
| Flack, John B..... | Enterprise..... | Dickinson. |
| Fletcher, Clinton..... | New Cambria..... | Missouri. |
| Fletcher, Ellen..... | Manhattan..... | Riley. |
| Fletcher, Hannah..... | Manhattan..... | Riley. |
| Foster, Walter E..... | Osborne City..... | Osborne. |
| Fraunberg, William S..... | Chetopa..... | Labette. |
| Frelich, John H..... | Columbus..... | Cherokee. |
| Frizzell, Edwin C..... | Topeka..... | Shawnee. |
| Frizzell, Eunic N..... | Topeka..... | Shawnee. |
| Fuller, A. P..... | Ottawa..... | Franklin. |
| Fuller, Lewis F..... | America City..... | Nemaha. |
| Gale, Ella..... | Manhattan..... | Riley. |
| Gale, George A..... | Manhattan..... | Riley. |
| Garrett, Nina..... | Wyandotte..... | Wyandotte. |
| Gibbon, John W..... | Burlington..... | Coffey. |

| NAME. | POST-OFFICE. | COUNTY. |
|----------------------------|---------------------|---------------|
| Gifford, Frank..... | Milford..... | Davis. |
| Gillett, Charles..... | Savannah..... | Pottawatomie. |
| Gist, Joseph..... | Manhattan..... | Riley. |
| Gist, John..... | Sabetha..... | Brown. |
| Gist, Owen..... | Sabetha..... | Brown. |
| Glossop, Lydia..... | Manhattan..... | Riley. |
| Godfrey, Albert N..... | Madison..... | Greenwood. |
| Gregg, Mollie B..... | Manhattan..... | Riley. |
| Gregory, Wesley C..... | Lyndon..... | Osage. |
| Griffing, John S..... | Manhattan..... | Riley. |
| Gross, George M..... | Junction City..... | Davis. |
| Griffing, William J..... | Manhattan..... | Riley. |
| Grover, Ella..... | Savannah..... | Pottawatomie. |
| Grover, Mary A..... | Savannah..... | Pottawatomie. |
| Grover, Mortimer C..... | America City..... | Nemaha. |
| Haines, H. F..... | Manhattan..... | Riley. |
| Haman, Frank..... | Manhattan..... | Riley. |
| Harding, Louis A..... | Manhattan..... | Pottawatomie. |
| Harding, Rowanna..... | Manhattan..... | Pottawatomie. |
| Harding, Rowena..... | Manhattan..... | Pottawatomie. |
| Harding, Thomas A..... | Manhattan..... | Pottawatomie. |
| Harmon, Webster..... | Valley Falls..... | Jefferson. |
| Harper, Josephine C..... | Manhattan..... | Riley. |
| Harris, Charles S..... | Ottawa..... | Franklin. |
| Harvey, Henry J..... | Wichita..... | Sedgwick. |
| Haun, John E..... | Sedgwick..... | Harvey. |
| Hayes, Burt..... | Binghamton..... | New York. |
| Haynes, David..... | Manhattan..... | Riley. |
| Hennings, Clarence H..... | New York City..... | New York. |
| Hibbard, Alice..... | Manhattan..... | Riley. |
| Hickey, Pierce..... | Marysville..... | Marshall. |
| Hicks, John H..... | Concordia..... | Cloud. |
| Hiddleson, Frank W..... | Solomon Rapids..... | Mitchell. |
| Higinbotham, Ettie F..... | Manhattan..... | Riley. |
| Higinbotham, George A..... | Manhattan..... | Riley. |
| Himes, Phebe..... | Manhattan..... | Riley. |
| Hixon, Columbus..... | Holton..... | Jackson. |
| Hixon, Samuel..... | Holton..... | Jackson. |
| Hodges, David..... | Strawn..... | Coffey. |
| Hodges, Samuel R..... | Strawn..... | Coffey. |
| Hopkins, Samuel D..... | Milford..... | Davis. |
| Houston, Charles S..... | Manhattan..... | Riley. |
| Houston, Hortense..... | Manhattan..... | Riley. |
| Houston, Lawrence N..... | Manhattan..... | Riley. |
| Houston, U. Grant..... | Manhattan..... | Riley. |

| NAME. | POST-OFFICE. | COUNTY. |
|--------------------------|--------------------|---------------|
| Howard, Giles P..... | Manhattan..... | Riley. |
| Howard, Jasper..... | Manhattan..... | Riley. |
| Howard, Walter C..... | Manhattan..... | Riley. |
| Hoyt, Emma..... | Manhattan..... | Riley. |
| Hoyt, Frederick O..... | Hiawatha..... | Brown. |
| Hoyt, Kate O..... | Manhattan..... | Riley. |
| Hubble, Frank P..... | Holton..... | Jackson. |
| Hughes, Frank..... | Leavenworth..... | Leavenworth. |
| Hulett, Turner C..... | Edgerton..... | Johnson. |
| Huling, Orlando D..... | Columbus..... | Cherokee. |
| Hulse, Etta V..... | Manhattan..... | Riley. |
| Humphrey, Carrie E..... | Milford..... | Davis. |
| Humphrey, Louis E..... | Milford..... | Davis. |
| Humphrey, Merritt C..... | Milford..... | Davis. |
| Hurlburt, Alice..... | Emporia..... | Lyon. |
| Hurlbut, Jeannette..... | Oswego..... | Labette. |
| Huston, Charles..... | Junction City..... | Davis. |
| Ingraham, Florence..... | Manhattan..... | Riley. |
| Irish, Gertrude S..... | Manhattan..... | Riley. |
| Irish, Helen M..... | Manhattan..... | Riley. |
| Jameson, Anna..... | Manhattan..... | Riley. |
| Jameson, Mary C..... | Manhattan..... | Riley. |
| January, Charles..... | Bedford..... | Iowa. |
| Jaquith, Walter W..... | Milford..... | Davis. |
| Jarbeaux, Belle D..... | Hill Gove..... | Wallace. |
| Jeffrey, George A..... | Manhattan..... | Riley. |
| Jeffrey, William..... | Manhattan..... | Riley. |
| Jenkins, William H..... | Topeka..... | Shawnee. |
| Johnson, Charles A..... | Wamego..... | Pottawatomie. |
| Johnston, May..... | Clay Center..... | Clay. |
| Johnston, Nellie..... | Clay Center..... | Clay. |
| Jones, Carrie L..... | Wabaunsee..... | Wabaunsee. |
| Jones, Henry..... | Wabaunsee..... | Wabaunsee. |
| Jones, Horace..... | Wabaunsee..... | Wabaunsee. |
| Jones, Richard C..... | Kennekuk..... | Atchison. |
| Kay, James S..... | Oak Grove..... | Pottawatomie. |
| Kay, Jennie A..... | Oak Grove..... | Pottawatomie. |
| Keller, Milton W..... | Milford..... | Davis. |
| Keller, Virgil E..... | Milford..... | Davis. |
| Kershaw, Jarvis..... | Manhattan..... | Riley. |
| Kimball, Carrie..... | Manhattan..... | Riley. |
| Kimble, Martha..... | Manhattan..... | Riley. |
| Kimble, Mary A..... | Manhattan..... | Riley. |
| King, Carrie..... | Manhattan..... | Riley. |
| King, John..... | Marysville..... | Marshall. |

| NAME. | POST-OFFICE. | COUNTY. |
|----------------------------|--------------------|---------------|
| Knapp, Frank..... | Osawatomie..... | Miami. |
| Knipe, George D..... | Manhattan..... | Riley. |
| Knipe, Lucy A..... | Manhattan..... | Riley. |
| Knipe, William A..... | Manhattan..... | Riley. |
| Knostman, Amelia..... | Manhattan..... | Riley. |
| Knostman, Emma..... | Manhattan..... | Riley. |
| Kroenke, Carl..... | Wamego..... | Pottawatomie. |
| Landon, Frank B..... | Vienna..... | Pottawatomie. |
| Lane, William J..... | La Cygne..... | Linn. |
| La Tourrette, James F..... | Fort Lyon..... | Colorado. |
| Leasure, Marion F..... | La Cygne..... | Linn. |
| Lewin, John..... | Wakefield..... | Clay. |
| Lewis, Eva M..... | Vienna..... | Pottawatomie. |
| Lewis, Ira H..... | Chetopa..... | Labette. |
| Little, Charles E..... | Emporia..... | Lyon. |
| Little, Hattie..... | Emporia..... | Lyon. |
| Lofinck, Reuben E..... | Manhattan..... | Riley. |
| Lynch, Frederick C..... | Columbus..... | Cherokee. |
| Lynch, James H..... | Columbus..... | Cherokee. |
| Mails, Charles..... | Manhattan..... | Pottawatomie. |
| Mails, Jennie E..... | Manhattan..... | Pottawatomie. |
| Maltby, James C..... | Salina..... | Saline. |
| Maltby, William..... | Salina..... | Saline. |
| Mann, John..... | Lyons..... | Rice. |
| Marlatt, Willie B..... | Manhattan..... | Riley. |
| Mathes, George W..... | Strawn..... | Coffey. |
| Maynard, Henry S..... | Osawatomie..... | Miami. |
| McCallum, Albert..... | Alida..... | Davis. |
| McCallum, Charles P..... | Alida..... | Davis. |
| McCallum, Daniel E..... | Alida..... | Davis. |
| McCallum, Hattie E..... | Alida..... | Davis. |
| McClanahan, S. L..... | Farlington..... | Crawford. |
| McConnell, Charles S..... | Manhattan..... | Riley. |
| McCormick, Henry H..... | Bramlette..... | Woodson. |
| McKanlass, William..... | Alida..... | Davis. |
| McKelvy, Robert..... | Washington..... | Washington. |
| McNair, Samuel E..... | Wabaunsee..... | Wabaunsee. |
| McNamee, John..... | Junction City..... | Davis. |
| McNamee, Mary F..... | Junction City..... | Davis. |
| McNamee, Michael..... | Junction City..... | Davis. |
| McQuary, J. Hollister..... | Salina..... | Saline. |
| Meacham, Mary A..... | Manhattan..... | Riley. |
| Meeker, Julian L..... | Ottawa..... | Franklin. |
| Metcalf, Holmes D..... | Ottawa..... | Franklin. |
| Merritt, Arthur H..... | Perry..... | Jefferson. |

| NAME. | POST-OFFICE. | COUNTY. |
|---------------------------|--------------------|------------|
| Midgley, Thomas..... | Minneapolis..... | Ottawa. |
| Miller, Frank E..... | Pike..... | New York. |
| Morgan, Samuel M..... | Americus..... | Lyon. |
| Moore, Cassie J..... | Auburn..... | Shawnee. |
| Morris, Mary E..... | Manhattan..... | Riley. |
| Moses, George C..... | Manhattan..... | Riley. |
| Neale, Cora A..... | Manhattan..... | Riley. |
| Nelson, John H..... | Bennington..... | Ottawa. |
| Noyes, Amelia..... | Wabaunsee..... | Wabaunsee. |
| Noyes, Ida L..... | Wabaunsee..... | Wabaunsee. |
| O'Leary, Alena..... | Abilene..... | Dickinson. |
| Oursler, Alphonso..... | Circleville..... | Jackson. |
| Parish, Effie A..... | Manhattan..... | Riley. |
| Parish, Ella A..... | Manhattan..... | Riley. |
| Parish, Emma..... | Manhattan..... | Riley. |
| Parker, Mary G..... | Manhattan..... | Riley. |
| Parkerson, Fannie R..... | Manhattan..... | Riley. |
| Parkerson, Freeman H..... | Manhattan..... | Riley. |
| Parsons, Mildred B..... | Kansas City..... | Missouri. |
| Patee, Henry..... | Manhattan..... | Riley. |
| Patton Jerry B..... | Wildwood..... | Rice. |
| Pechner, Lizzie..... | Manhattan..... | Riley. |
| Peck, Seward N..... | Junction City..... | Davis. |
| Peckham, William H..... | Manhattan..... | Riley. |
| Penry, Charles E..... | Hutchinson..... | Reno. |
| Perry, George H..... | Manhattan..... | Riley. |
| Pike, Frank H..... | Florence..... | Marion. |
| Pillsbury, Nellie..... | Manhattan..... | Riley. |
| Phillips, Anna..... | Manhattan..... | Riley. |
| Platt, Augustus H..... | Manhattan..... | Riley. |
| Platt, George L..... | Manhattan..... | Riley. |
| Platt, Hattie..... | Manhattan..... | Riley. |
| Pound, Byron..... | Manhattan..... | Riley. |
| Pound, Isabella B..... | Manhattan..... | Riley. |
| Powell, Omar..... | Vermillion..... | Marshall. |
| Powers, Herbert W..... | Manhattan..... | Riley. |
| Prentiss, Portus..... | Atchison..... | Atchison. |
| Proctor, Belle A..... | Twin Springs..... | Linn. |
| Proctor, John C..... | Twin Springs..... | Linn. |
| Puterbaugh, Hamlin F..... | Topeka..... | Shawnee. |
| Quinby, Frank B..... | Wakefield..... | Clay. |
| Rambo, Anna..... | Plymouth..... | Lyon. |
| Rambo, James W..... | Plymouth..... | Lyon. |
| Rathbun, Phebe..... | Manhattan..... | Riley. |
| Records, Francis A..... | Peru..... | Howard. |

| NAME. | POST-OFFICE. | COUNTY. |
|---------------------------|-----------------------|---------------|
| Redenbaugh, Lydia..... | Lyndon..... | Osage. |
| Reed, Almeda J..... | Milford..... | Davis. |
| Reed, Corwin J..... | St. Clare..... | Pottawatomie. |
| Reed, Nona..... | Topeka..... | Shawnee. |
| Reynolds, Theodore..... | Junction City..... | Davis. |
| Rhoades, Anna..... | St. George..... | Pottawatomie. |
| Richmond, Corydon S..... | Delano..... | Sedgwick. |
| Richmond, Gustavus A..... | Delano..... | Sedgwick. |
| Richmond, Irving..... | Delano..... | Sedgwick. |
| Riggs, Lewis E..... | Florence..... | Marion. |
| Riley, Lizzie..... | Manhattan..... | Riley. |
| Robertson, Mary J..... | Burr Oak..... | Jewell. |
| Rogers, Louis B..... | Solomon City..... | Dickinson. |
| Rogers, Julia F..... | Burlingame..... | Osage. |
| Rogers, Hope L..... | Solomon City..... | Dickinson. |
| Rogers, John W..... | Solomon City..... | Dickinson. |
| Romberger, Charles E..... | Manhattan..... | Riley. |
| Romick, James W..... | Solomon City..... | Dickinson. |
| Romick, Mary M..... | Manhattan..... | Riley. |
| Roper, Nida..... | Manhattan..... | Riley. |
| Ruland, Frank C..... | Augusta..... | Butler. |
| Rushmore, Harry C..... | Grantville..... | Jefferson. |
| Russell, Charles N..... | Tierra..... | New Mexico. |
| Salter, Lewis A..... | Thayer..... | Neosho. |
| Sanford, Lillie..... | Burlingame..... | Osage. |
| Sapp, Elwood..... | Thayer..... | Neosho. |
| Sawyer, Nellie..... | Ottawa..... | Franklin. |
| Schreiner, Ernst..... | La Grange..... | Marshall. |
| Schroeder, Charles E..... | Brooklyn..... | New York. |
| Schwalm, John..... | Burlington..... | Coffey. |
| Shaw, James..... | Manhattan..... | Riley. |
| Sherman, Marcus..... | Robinson..... | Brown. |
| Shiner, William Bee..... | Bexar..... | Texas. |
| Shinkle, Ezra..... | Twin Springs..... | Linn. |
| Shipman, Charles F..... | Elmdale..... | Chase. |
| Shofe, Ella B..... | Cottonwood Falls..... | Chase. |
| Shumaker, Simon C..... | Wetmore..... | Nemaha. |
| Sibrell, Hattie..... | Junction City..... | Davis. |
| Sikes, Melva E..... | Vienna..... | Pottawatomie. |
| Sikes, William H..... | Vienna..... | Pottawatomie. |
| Simpson, Emma..... | Manhattan..... | Riley. |
| Smith, Charles E..... | Manhattan..... | Riley. |
| Smith, Clement O..... | Emporia..... | Lyon. |
| Smith, Henry..... | Lyndon..... | Osage. |
| Smith, Leslie H..... | Plowboy..... | Shawnee. |

| NAME. | POST-OFFICE. | COUNTY. |
|---------------------------|--------------------|---------------|
| Smith, Mary B..... | Centerville..... | Linn. |
| Snyder, Ella..... | Highland..... | Doniphan. |
| Snyder, Gussie..... | Highland..... | Doniphan. |
| Spooner, Matthew..... | Wakefield..... | Clay. |
| Sternberg, Albert..... | Fort Harker..... | Ellsworth. |
| Sternberg, Charles H..... | Fort Harker..... | Ellsworth. |
| Stewart, Albert A..... | Oswego..... | Labette. |
| Stewart, Alice E..... | Manhattan..... | Riley. |
| Stiles, Albert H..... | Pavilion..... | Wabaunsee. |
| Stockwell, Samuel H..... | Americus City..... | Nemaha. |
| Stone, Anna..... | Manhattan..... | Riley. |
| Stone, William S..... | Towanda..... | Butler. |
| Streeter, Abbie J..... | Bala..... | Riley. |
| Streeter, Charles A..... | Bala..... | Riley. |
| Thompson, Charles H..... | Alma..... | Wabaunsee. |
| Thompson, Ella..... | Irving..... | Marshall. |
| Thorpe, Hattie..... | Manhattan..... | Riley. |
| Thorpe, Jennie B..... | Manhattan..... | Riley. |
| Tittsworth, Wilbur H..... | Atchison..... | Atchison. |
| Todd, Irving..... | Manhattan..... | Riley. |
| Travelute, Charles F..... | Marysville..... | Marshall. |
| Ulrich, Corinna..... | Manhattan..... | Riley. |
| Ulrich, Edwin H..... | Manhattan..... | Riley. |
| Ulrich, William..... | Manhattan..... | Riley. |
| Veatch, Belle V..... | Manhattan..... | Riley. |
| Viets, Clayton L..... | Towanda..... | Butler. |
| Vincent, Ella..... | Manhattan..... | Riley. |
| Wake, George A..... | Wakefield..... | Clay. |
| Walker, James..... | Pleasant Run..... | Pottawatomie. |
| Ward, Stanley M..... | Ellenville..... | New York. |
| Warner, Cora..... | Ogden..... | Riley. |
| Warner, Nannie..... | Ogden..... | Riley. |
| Waters, Eben..... | Parsons..... | Labette. |
| Weeks, Abbie C..... | Irving..... | Marshall. |
| Weeks, Joseph..... | Phillipsburg..... | Phillips. |
| Wells, Arthur..... | Phillipsburg..... | Phillips. |
| Wells, Harvey A..... | Phillipsburg..... | Phillips. |
| Wertzberger, Anna..... | Alma..... | Wabaunsee. |
| White, Samuel A..... | Palermo..... | Doniphan. |
| Whitehorn, Arthur..... | Manhattan..... | Riley. |
| Whiting, Fairy E..... | Manhattan..... | Riley. |
| Whitman, Ida..... | Lyndon..... | Osage. |
| Whitman, Minerva E..... | Lyndon..... | Osage. |
| Whitney, Genevieve..... | Manhattan..... | Riley. |
| Whitney, George..... | Eudora..... | Douglas. |

| NAME. | POST-OFFICE. | COUNTY. |
|---------------------------|--------------------|---------------|
| Whitney, Kittie S..... | Manhattan..... | Riley. |
| Whitney, Willard..... | Manhattan..... | Riley. |
| Whitted, Charles S..... | Lyndon..... | Osage. |
| Wilkin, Frank..... | Wichita..... | Sedgwick. |
| Wiley, Ida..... | Columbus..... | Cherokee. |
| Williams, Cordelia..... | Topeka..... | Shawnee. |
| Williamson, Joseph E..... | Royal Center..... | Indiana. |
| Williamson, Lizzie..... | Royal Center..... | Indiana. |
| Williston, Carrie..... | Manhattan..... | Riley. |
| Williston, Frank H..... | Manhattan..... | Riley. |
| Wilson, Amos E..... | Solomon City..... | Dickinson. |
| Winder, Ivaloo..... | Strawberry..... | Washington. |
| Wingrove, Page..... | Clay Center..... | Clay. |
| Winne, Ella..... | Manhattan..... | Riley. |
| Winne, John..... | Manhattan..... | Riley. |
| Wisner, Albert..... | Manhattan..... | Riley. |
| Wisner, William..... | Manhattan..... | Riley. |
| Womack, Thomas J..... | Russell..... | Russell. |
| Wood, Adelbert D..... | Americus..... | Lyon. |
| Wood, Arlie..... | Parsons..... | Labette. |
| Wood, Clarence E..... | Pleasant Run..... | Pottawatomie. |
| Wood, Frank W..... | Valley Falls..... | Jefferson. |
| Woodman, Agnes M..... | Manhattan..... | Riley. |
| Woolam, Mamie..... | Wamego..... | Pottawatomie. |
| Wright, Robert..... | Dodge City..... | Ford. |
| Wyland, Thomas J..... | Jewell City..... | Jewell. |
| Wylie, Oliver..... | Tabor..... | Clay. |
| Young, Bettie..... | Manhattan..... | Riley. |
| Young, Willoughby..... | Junction City..... | Davis. |

LIST OF GRADUATES.

| Names. | 1867. | Residence. |
|----------------------------|-------|-------------------------|
| Denison, Henry L..... | | Boulder City, Colorado. |
| Haines, Belle M..... | | Topeka, Kansas. |
| Haines, Emma L..... | | Wamego, Kansas. |
| Points, John J..... | | Omaha, Nebraska. |
| White, Martha A..... | | Chicago, Illinois. |
| | 1871. | |
| Campbell, Emily M..... | | Concordia, Kansas. |
| Denison, Ellen F..... | | Baldwin City, Kansas. |
| Houston, Luella M..... | | Manhattan, Kansas. |
| Wheedon, Charles O..... | | Lincoln, Nebraska. |
| White, Kate E..... | | Manhattan, Kansas. |
| | 1872. | |
| Haines, Theophania M..... | | Ellis, Kansas. |
| Todd, Albert..... | | West Point, New York. |
| Williston, S. Wendell..... | | Manhattan, Kansas. |
| | 1873. | |
| Davis, Eliza Z..... | | Manhattan, Kansas. |
| Kimble, Samuel..... | | Manhattan, Kansas. |
| | 1874. | |
| Brous, Harry A..... | | Manhattan, Kansas. |
| Clark, Edgar F..... | | Manhattan, Kansas. |
| Davis, John E..... | | Manhattan, Kansas. |
| Gilbert, William D..... | | Manhattan, Kansas. |
| White, A. Judson..... | | Manhattan, Kansas. |
| | 1875. | |
| Lofinck, Reuben E..... | | Nevada, Missouri. |
| Stewart, Alice E..... | | Oberlin, Ohio. |
| | 1876. | |
| Gale, George A..... | | Manhattan, Kansas. |
| Gale, Ella M..... | | Manhattan, Kansas. |
| Sawyer, Nellie..... | | Ottawa, Kansas. |
| Kimball, Carrie M..... | | Manhattan, Kansas. |
| Whitman, Minerva E..... | | Lyndon, Kansas. |
| | 1877. | |
| Child, Ella S..... | | Manhattan, Kansas. |
| Failyer, George H..... | | Spring Creek, Kansas. |
| Griffing, John S..... | | Manhattan, Kansas. |
| Howard, Walter C..... | | Manhattan, Kansas. |
| Hoyt, Frederick O..... | | Hiawatha, Kansas. |
| Humphrey, Louis E..... | | Milford, Kansas. |
| LaTourrette, James F..... | | Fort Lyon, Colorado. |
| Leasure, Marion F..... | | LaCygne, Kansas. |
| Ulrich, William..... | | Manhattan, Kansas. |

TABULAR EXHIBIT, showing attendance by terms, sex, average age, and counties.

| Terms. | Number of Students. | | | Aver. age of Students. | | | Residence. | | |
|------------------------------|---------------------|------|--------|------------------------|------|--------|------------|-------|------|
| | Male. | Fem. | Total. | Male. | Fem. | Total. | Co. | St te | Tot. |
| January 7—May 26, 1875..... | 75 | 43 | 118 | 18.9 | 17.4 | 18.4 | 29 | 5 | 34 |
| August 26—Dec. 23, 1875..... | 108 | 69 | 177 | 18.4 | 17.5 | 18.0 | 33 | 6 | 39 |
| Total..... | 154 | 83 | 237 | 18.6 | 17.5 | 18.2 | 40 | 8 | 48 |
| January 5—May 17, 1876..... | 118 | 77 | 195 | 18.2 | 17.4 | 17.4 | 34 | 7 | 41 |
| August 24—Dec. 21, 1876..... | 111 | 67 | 178 | 18.3 | 17.1 | 18.0 | 36 | 6 | 42 |
| Total..... | 184 | 117 | 301 | 18.5 | 17.3 | 18.0 | 45 | 8 | 53 |
| January 4—May 23, 1877..... | 123 | 52 | 175 | 18.8 | 17.2 | 18.3 | 32 | 6 | 38 |

STATEMENT BY COUNTIES, showing the attendance each term.

| Counties. | 1875. | | | 1876. | | | 1877. |
|-------------------|-------------|------------|--------|-------------|------------|--------|-------------|
| | Spr'g Term. | Fall Term. | Total. | Spr'g Term. | Fall Term. | Total. | Spr'g Term. |
| Allen..... | 2 | ..... | 2 | ..... | ..... | ..... | ..... |
| Atchison..... | 1 | 1 | 2 | 2 | 4 | 4 | 3 |
| Brown..... | 2 | 1 | 2 | ..... | 3 | 3 | 1 |
| Butler..... | 3 | ..... | 3 | ..... | 1 | 1 | 1 |
| Chase..... | ..... | 3 | 3 | ..... | 2 | 2 | ..... |
| Cherokee..... | 3 | 4 | 4 | 4 | 8 | 8 | 8 |
| Clay..... | 3 | 2 | 4 | 3 | 1 | 3 | 5 |
| Cloud..... | ..... | ..... | ..... | ..... | 1 | 1 | ..... |
| Coffey..... | 1 | 5 | 5 | 4 | 1 | 5 | ..... |
| Crawford..... | ..... | ..... | ..... | ..... | 1 | 1 | 1 |
| Davis..... | 5 | 8 | 11 | 12 | 9 | 19 | 11 |
| Dickinson..... | 3 | 8 | 8 | 6 | 1 | 6 | 1 |
| Doniphan..... | ..... | 1 | 1 | ..... | 2 | 2 | ..... |
| Douglas..... | ..... | 1 | 1 | 1 | ..... | 1 | ..... |
| Ellsworth..... | ..... | 2 | 2 | 2 | ..... | 2 | ..... |
| Ford..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 |
| Franklin..... | 3 | 4 | 5 | 3 | ..... | 3 | ..... |
| Greenwood..... | 1 | ..... | 1 | 2 | 1 | 3 | 1 |
| Howard..... | 1 | ..... | 1 | ..... | ..... | ..... | ..... |
| Harvey..... | ..... | 1 | 1 | 1 | 1 | 1 | ..... |
| Jackson..... | 6 | 1 | 6 | 1 | ..... | 1 | ..... |
| Jefferson..... | 3 | 4 | 6 | 4 | 2 | 6 | 2 |
| Jewell..... | ..... | ..... | ..... | ..... | 1 | 1 | 2 |
| Johnson..... | 1 | 1 | 2 | 2 | ..... | 2 | ..... |
| Labette..... | 3 | 3 | 5 | 3 | 6 | 7 | 5 |
| Leavenworth..... | ..... | ..... | ..... | 2 | 2 | 2 | 2 |
| Linn..... | 5 | 3 | 7 | 3 | 1 | 3 | 1 |
| Lyon..... | ..... | 3 | 3 | 2 | 5 | 7 | 6 |
| Marion..... | ..... | ..... | ..... | 1 | ..... | 1 | 1 |
| Marshall..... | 1 | 5 | 5 | 4 | 3 | 5 | 3 |
| McPherson..... | ..... | ..... | ..... | 1 | ..... | 1 | 1 |
| Miami..... | 1 | 1 | 2 | 1 | 1 | 1 | ..... |
| Mitchell..... | 1 | ..... | 1 | ..... | ..... | ..... | ..... |
| Nemaha..... | 3 | 2 | 4 | 3 | 2 | 5 | 2 |
| Neosho..... | ..... | ..... | ..... | ..... | 1 | 1 | 2 |
| Osage..... | 4 | 6 | 8 | 5 | 1 | 6 | 2 |
| Osborne..... | ..... | 1 | 1 | 1 | 2 | 3 | 2 |
| Ottawa..... | 1 | ..... | 1 | 1 | ..... | 1 | ..... |
| Phillips..... | ..... | ..... | ..... | ..... | 2 | 2 | 3 |
| Pottawatomie..... | 4 | 17 | 19 | 18 | 8 | 19 | 10 |
| Reno..... | ..... | 1 | 1 | 1 | ..... | 1 | ..... |
| Rice..... | ..... | ..... | ..... | ..... | 1 | 1 | 2 |
| Riley..... | 43 | 67 | 83 | 79 | 78 | 117 | 66 |
| Russell..... | ..... | ..... | ..... | ..... | ..... | ..... | 1 |
| Saline..... | 1 | 2 | 2 | 1 | 1 | 2 | ..... |
| Sedgwick..... | 4 | 2 | 4 | 1 | 1 | 2 | 1 |
| Shawnee..... | 1 | 2 | 3 | 4 | 3 | 7 | 6 |
| Wabauunsee..... | ..... | 6 | 6 | 9 | 7 | 14 | 7 |
| Wallace..... | ..... | ..... | ..... | ..... | 1 | 1 | ..... |
| Washington..... | 2 | 1 | 3 | ..... | 3 | 3 | 1 |
| Woodson..... | 1 | ..... | 1 | ..... | ..... | ..... | ..... |
| Wyandotte..... | ..... | 1 | 1 | 1 | ..... | 1 | ..... |

States and Territories: Colorado, 2; Illinois, 3; Indiana, 3; Indian Territory, 2; Iowa, 1; Missouri, 1; New Mexico, 2; New York, 6; Pennsylvania, 1.

T H E F A R M !

This Department has in its possession small but very choice herds of

SHORT-HORN,
GALLOWAY
AND JERSEY CATTLE.

—ALSO—

BERKSHIRE
AND
ESSEX SWINE.

These breeds are kept by the College primarily for illustration and experiment. However, the material increase of the herd enables us to dispose of many animals every season. Farmers and stockmen wishing choice specimens of the above breeds, of both sexes, and at moderate prices, will do well to address the undersigned.

EDWARD M. SHELTON,

Manhattan, Kansas.

Superintendent of Farm.

SCHOOL DISTRICT BONDS!

—o-o-o—

School District Boards about to issue bonds are invited to communicate with us before negotiating elsewhere. The endowment funds of the College are invested in these bonds, for which we pay the highest market price.

Address,

E. GALE,

Manhattan, Kansas.

Loan Commissioner.

Kansas State Agricultural College Lands.

34,000 ACRES!

These lands are located in five of the best counties in the State, viz:
WASHINGTON, MARSHALL,
DICKINSON,
RILEY, CLAY.

These counties are traversed by railroads; are meandered by the Big and Little Blue rivers, the Kansas, Republican, Smoky Hill, Saline and Solomon rivers, and by many smaller streams; and the counties are well settled and dotted with improved farms.

The lands were carefully selected, and
ARE AMONG THE BEST IN THE STATE.

TERMS OF PURCHASE:

One-eighth cash, and balance in seven equal annual installments, with annual interest at ten per cent, or any amount may be paid in cash at time of purchase. For further particulars, and for colored lithographic map of the lands, address,

L. R. ELLIOTT,

Agent for Sale of Agricultural College Lands.

MANHATTAN, KANSAS.

THE INDUSTRIALIST.

A Weekly Journal edited by the Faculty and published by the Printing Department of the Kansas State Agricultural College. It contains original and seasonable articles on the Nursery, Farm, Trades, Sciences, and Education. Price, 75 cents a year. Address,;

A. A. STEWART,

Manhattan, Kansas.