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John B. Stetson University School of Technology Annual Supplement

John B. Stetson University

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JOHN B. STETSON UNIVERSITY BULLETIN,
Vol. II, No. 2, August, 1902.

JOHN B. STETSON UNIVERSITY

SCHOOL OF TECHNOLOGY

ANNUAL ANNOUNCEMENT



DE LAND, FLORIDA

1902-1903



Stetson University



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SCHOOL OF TECHNOLOGY

DE LAND, FLORIDA

ANNUAL ANNOUNCEMENT

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DeLand, Fla.
E. O. PAINTER & CO., PRINTERS
1902.

JOHN T. STETSON UNIVERSITY

SCHOOL OF TECHNOLOGY

DE LAUD FLORIDA

ANNUAL REPORT

1901-1902

PRINTED BY
THE UNIVERSITY PRESS
AT
DE LAUD, FLORIDA

John B. Stetson University.

The University was founded primarily in the interest of the young people of Florida. It was also believed that such an institution would meet the needs of many who, from considerations of health, are attracted southward by our genial winter climate. The University includes the following departments and courses:

THE COLLEGE OF LIBERAL ARTS.

The Classical Course.

Leading to degree of A.B.

The Latin Scientific Course.

Leading to degree of Ph.B.

The Scientific Course.

Leading to degree of B.S.

THE DEPARTMENT OF LAW.

Leading to degree of LL.B.

THE SCHOOL OF TECHNOLOGY.

Leading to degrees of M.E., C.E. and E.E.

NORMAL AND PRACTICE SCHOOL.

ACADEMY.

SCHOOL OF MUSIC.

SCHOOL OF ART:

BUSINESS COLLEGE.

For Catalogue, address

PRESIDENT JOHN F. FORBES,

DeLand, Florida.

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Location.

The city of DeLand, the capital of Volusia county, Florida, is situated about twenty miles from the east coast of the peninsula, and about one hundred miles south of Jacksonville. It may be reached directly by the Plant System of Railways, or by the boats on the St. Johns river, which land at Beresford, four miles away. Orange City, a station on a branch of the East Coast Railway, is five miles distant.

The city is on high pine land, not near any water, standing or running, and is remarkable for its general healthfulness. The climate is almost a specific for throat and lung troubles, catarrh, rheumatism, etc. Students who are unable, from delicate health, to attend school in the North during the winter, find it possible to pursue their studies here regularly, and yet constantly improve in health.

DeLand offers many attractions to families desiring to establish winter homes in Florida, or to become permanent residents. The city has waterworks, electric lights, paved streets, brick business blocks, an ice factory, dairies, livery stables, good boarding-houses and hotels, notably the new "College Arms" and numerous stores carrying such stocks of goods as are not usually found outside of large trade centers. Four weekly news-

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papers are published in DeLand. Seven white churches, owning as many suitable houses of worship, maintain services. Numerous fraternal organizations have lodges. There is a well-organized public school occupying a fine new building. Since 1889 there has been no licensed saloon in Volusia county, and prosecutions for illegal selling are prompt and vigorous.

* The general healthfulness and beauty of the city, together with the high character of its inhabitants and the stimulating intellectual, moral and religious influences, make this almost an ideal situation for an institution of learning.

School of Technology.

Faculty.

JOHN F. FORBES, A.M., Ph.D., *President.*

ELLERY B. PAINE, M.S., *Dean and Professor of Mechanical and Electrical Engineering.*

J. ARCHY SMITH, M.S., *Professor of Mathematics.*

G. PRENTICE CARSON, A.M., *Professor of Chemistry.*

FRANK R. OSBORNE, *Professor of Physics.*

EDMUND K. BROADUS, A.M., *Professor of English.*

MADAME E. HORTENSE SENEGAS, *Instructor in French.*

EDWIN G. BALDWIN, A.M., *Instructor in German.*

FRANK DANA SEARS, B.S., C.E., *Instructor in Mathematics and Civil Engineering.*

General Statement.

The strong and wholesome reaction toward the practical in education, or better perhaps toward the recognition of the rights of the hand and of constructive skill, has revealed itself in the rapid and extensive establishment throughout the country of Schools of Technology, Manual Training, Applied Science, etc.

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John B. Stetson University, recognizing this movement as one in the right direction and of great value and especially recognizing the needs of our own State in this direction, has decided to establish a School of Technology and Manual Training, and the first session of this new department of the University will be opened October 1st, 1902.

The end in view is to provide a way for young men to fit themselves for engineering work in the best possible manner. Courses are open in Mechanical Engineering, Civil Engineering and Electrical Engineering. The courses are arranged with three points emphasized as strongly as possible. They are as follows:

First, thorough instruction as to the principles and theories which are at the bottom of engineering sciences.

Second, knowledge as to the best modern methods of making natural phenomena serve some useful end.

Third, original work of a kind involving the first two points and tending to throw the student on his own resources where he must think for himself.

With this idea constantly in mind a careful balance is kept between the instruction in the lecture and class rooms and the work in the shops and laboratories.

SCHOOL OF TECHNOLOGY

Requirements for Admission.

Applicants for admission to the Apprentice years must have a good practical knowledge of Arithmetic, English Grammar, United States History, Geography, and Orthography. For admission to the Freshmen year the work of the Apprentice years or an equivalent in other institutions will be required. The Apprentice years are the same for all Engineering Courses.

During the year 1902-'03 students will be accepted for any of the Apprentice years and for the Freshmen and Sophomore years.

Courses of Study.

Leading to courses in Mechanical Engineering, Civil Engineering and Electrical Engineering.

Apprentice Course.

First Year.

Algebra to quadratics.

English, three periods per week.

French or German.

Manual training and drawing.

Second Year.

Plane Geometry, four periods per week.

English (Rhetoric).

Chemistry.

French or German.

*All subjects five hours per week unless otherwise stated.

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Third Year.

Advanced Algebra and Solid Geometry.

English, four periods per week.

Physics.

Manual training and drawing.

Course in Mechanical Engineering.

Leading to the degree of Mechanical Engineer

Freshman Year.

Trigonometry, College Algebra, Analytic Geometry.

General Chemistry.

Carpentry, turning, pattern making, three periods per week.

Descriptive Geometry, two periods per week.

Sophomore Year.

Calculus and Applications to Mechanics.

General Physics and introduction to Electrical Measurements.

Forge and foundry work, machine sketching.

Junior Year.

Surveying and analytic mechanics.

Machine tool work; valve gear and steam engine design.

Mechanics of Machinery, Applied Mechanics.

SCHOOL OF TECHNOLOGY

Senior Year.

Electives under the direction of the Director of the Department.

Course in Civil Engineering.

Leading to the degree of Civil Engineer.

Freshman Year.

Trigonometry, College Algebra, Analytic Geometry.

General Chemistry.

Surveying; land, topographical, mining, hydrostatic, three periods per week.

Descriptive Geometry and Drawing, two periods per week.

Sophomore Year.

Calculus and Applications to Mechanics.

General Physics and introduction to Electrical Measurements.

Surveying; city, railroad, geodetic, sanitary and irrigation.

Junior Year.

Stereotomy and Analytic Mechanics.

Bridge Construction, stresses in various forms of trusses, engineering material and strength of material.

One elective.

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Senior Year.

Electives under the direction of the Director of the Department.

Course in Electrical Engineering.

Leading to the Degree of Electrical Engineer.

Freshman Year.

Trigonometry, College Algebra, Analytic Geometry.

General Chemistry.

Carpentry, turning, pattern making, three hours per week.

Descriptive Geometry and Drawing, two hours per week.

Sophomore Year.

Calculus and Applications to Mechanics.

General Physics and Introduction to Electrical Measurements.

Forge and Foundry work, Machine sketching.

Junior Year.

Analytic Mechanics and Surveying.

Engine design, Machine design, Practice in Electricity.

Applied Mechanics, Electrical Measurements.

Practice in Metals.

Senior Year.

Electives under the direction of the Director of the Department.

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Science Hall.

Science Hall is the central building of a group now being erected for the School of Technology, to be opened at the beginning of the next college year. It is 200 feet long by 80 feet in depth, three stories high. The style is of the Spanish Renaissance, with low nearly flat roof, the brick walls finished in grey stucco. In its setting of palm trees the building has a peculiarly pleasing effect.

The Engineering laboratories and work-shops occupy the main ground floor. The wood-working room is equipped so that each student may have for his own use a bench with vise, also a complete set of tools including planes, saws, chisels, gauges, squares, hammers, etc. There are also many electrically driven machines, including lathes of various sizes, circular saw, band saw, etc.

In the machine shop there is a good assortment of electrically driven engine lathes, and other iron working tools, including drill presses, planer, shaper, milling machine, universal grinding machine and wet tool grinder, besides bench tools, standard guages and measuring machines.

Space is also found on the ground floor for the Mechanical and Electrical laboratories. During the latter part of the engineering courses the student will devote much time to the study of materials and the operation of mechanical and electrical ap-

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paratus, and the laboratories afford opportunity for investigation of a wide range of subjects.

The entire first floor is occupied by the lecture rooms, offices and laboratories of the department of Physics and Chemistry. The drawing rooms are on the third floor.

Power Plant.

Behind Science Hall is a building 40x52 feet used for a boiler and power house. In the boiler room are four boilers with a total capacity of nearly 200 horse power, equipped with a complete system of mechanical draft.

In the engine and dynamo room are the machines which furnish electric power for the shops and laboratories in Science Hall.

Foundry and Forge Shop.

In the Foundry and Forge shop, a building 40x80 feet, will be found a cupola for iron casting, brass furnaces, and forges. This will enable the student to become familiar with the process of making iron and brass castings, the forging and welding of wrought iron and steel and the making of tools and how to temper them.

Through the kindness of the managers the entire equipment of the electric light plant near DeLand is made available to the students in electrical engineering. This makes possible many instructive experiments with alternate current machin-

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ery. All students in the electrical course will be given practice with the operation of this plant under the ordinary running conditions.

Arrangements have also been made so that the refrigerating plant at Stetson may be used for experimental work. Hence students in the mechanical course have an excellent opportunity for the study of the manufacture of artificial ice on a commercial scale.

Instruction in Manual Training is offered to teachers taking special work at the University. This is of value to all, but especially so to those who expect to teach manual training at some future time.

On completion of the course of study outlined the student becomes candidate for the degree of Mechanical, Civil or Electrical Engineer by presenting a suitably prepared thesis, which contains the result of the student's investigation of some engineering problem.

Expenses.

For students who board in the Dormitory the charge for the Apprentice Years will be one hundred and ninety-four dollars per year, and for the courses in either Mechanical, Civil or Electrical Engineering two hundred and twenty-two dollars per year. This includes tuition, board, room, heat, lights and washing.

To those living in the city the charge for tui-

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tion alone in the Apprentice Years will be thirty-eight dollars, and for the courses in either Mechanical, Civil or Electrical Engineering sixty-six dollars per year.

A fee of \$5 is charged for a diploma conferring an Engineering degree.



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