

First Annual Announcement



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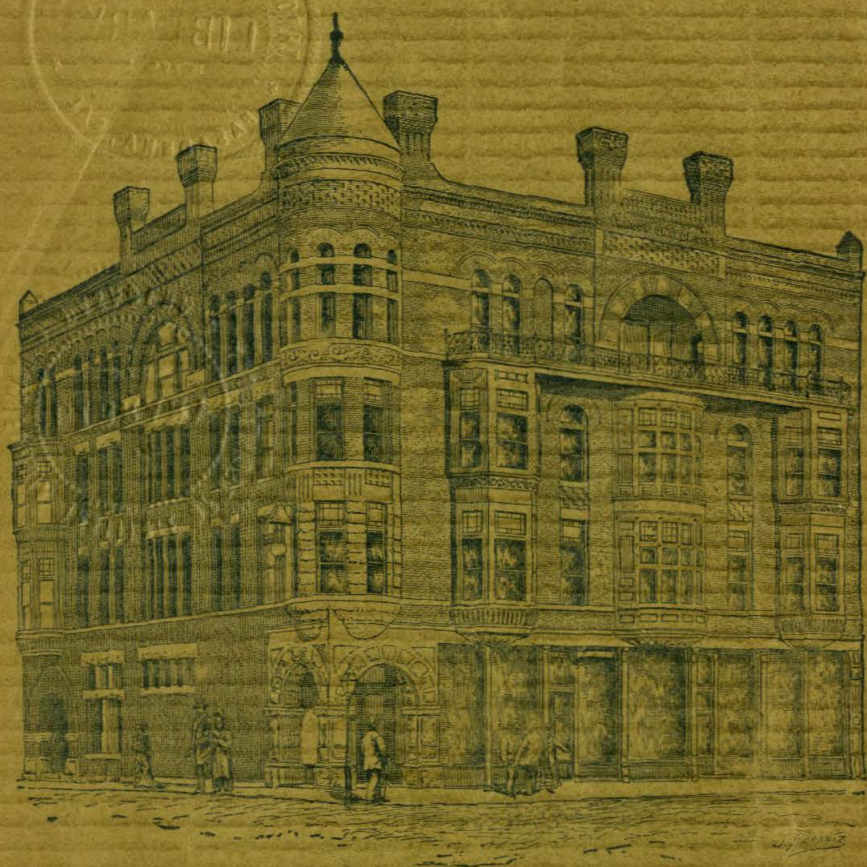
THROOP UNIVERSITY

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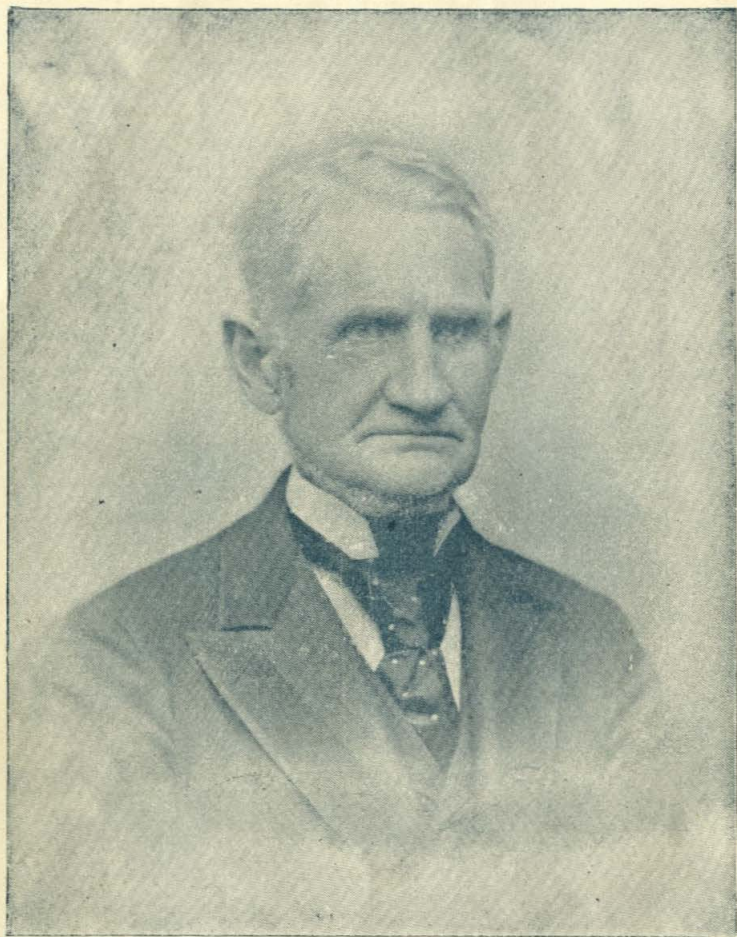
• • Pasadena

• • California

1892-93



THROOP UNIVERSITY



HON. AMOS G. THROOP.

FIRST ANNUAL CATALOGUE

OF



THROOP UNIVERSITY

PASADENA, CALIFORNIA.

1892-93

KINGSLEY-BARNES PRINT

CALENDAR

1892-93

Fall Term begins . . . Tuesday, September 20, 1892.
Thanksgiving Vacation . . . Thursday, Nov. 24 to Monday, Nov. 28.
Fall Term ends . . . Wednesday, December 21.

HOLIDAY VACATION

Winter Term begins . . . Wednesday, January 4, 1893.
Winter Term ends . . . Friday, March 24.

SPRING VACATION

Spring Term begins . . . Monday, April 3.
Spring Term ends . . . Tuesday, June 20.

SUMMER VACATION

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CARRIE B. CONGER,
Instructor in Instrumental Music.

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Historical Sketch



THROOP UNIVERSITY, which takes its name from its generous patron, Hon. Amos G. Throop, who endows it with his wealth and consecrates all his energy to its support, was founded in 1891. Articles of incorporation were filed September 23; the first Board of Trustees organized on October 2. A five years' lease of the Wooster Block, a handsome and commodious four-story brick building, situated at the corner of Fair Oaks Avenue and Kansas Street, was at once secured and immediately fitted up with appropriate furnishings. The doors of the institution were opened to students on November 2. It was established, and is to be maintained and operated as an institution of learning embracing the different departments and colleges of higher education, to furnish to students of both sexes and all religious opinions a liberal and practical education, which, while thoroughly Christian, is to be absolutely non-sectarian in its character.

Pasadena, the seat of the University, is generally acknowledged to be the most beautiful residence city in California. It has a population of over five thousand, and its suburbs are the homes of about five thousand more. It is situated within ten miles of the city of Los Angeles, at the head of the San Gabriel Valley and at the base of Mt. Wilson, the most picturesque of the California Alps. In beauty and healthfulness, in the culture of its homes, and in its high social and moral tone, Pasadena is without a rival in the Golden State. It is reached by the Santa Fé and the Los Angeles Terminal Railways.

Students residing in Los Angeles can live at home, making the daily trips to and from Pasadena at a cost of only five dollars per month.

Departments

Eight departments have been organized: The Collegiate Department offers four courses of four years each; viz., a Classical Course, leading to the degree of Bachelor of Arts; a Philosophical Course, leading to the degree of Bachelor of Philosophy; a Scientific Course, leading to the degree of Bachelor of Science; and an English Course, leading to the degree of Bachelor of Letters.

The Normal Department makes a specialty of preparing teachers for service in High Schools, for positions as teachers of languages, mathematics, science, etc. The training of teachers for schools in which education by doing has become a real thing, will receive particular attention in this department.

The Preparatory Department furnishes full preparation for any first-class college.

The Manual Training Department is to be one of the leading features of the institution. A new building known as "Polytechnic Hall" is being erected for its accommodation at the corner of Fair Oaks Avenue and Chestnut Street, and is to be ready for occupancy September 25. In point of material and professional equipment for the complete industrial education of young men and women, the Polytechnic Hall of Throop University will rank second to none.

A Department of Accounts, Stenography and Typewriting will furnish first-class business training.

The Department of Art offers excellent facilities in both Painting and Drawing.

The Department of Music affords opportunity for a higher grade of musical culture than is ordinarily available. The vocal music is in charge of an eminent artist, a pupil of the Bjorksteins of New York, while instruction on the piano is given by one of Sherwood's most accomplished students.

A Sub-preparatory Department will receive a limited number of pupils who need more special and individual attention than can be given in other schools.

Library and Laboratories

A Library has already been established and the collection of valuable works of reference begun. Money for this purpose has been received, not only from the endowment fund, but from friends of the institution, and from the returns of a lecture course given under the management of students and faculty, to which Judge Enoch Knight of Los Angeles, Dr. David Wallace Mott of Santa Paula, Prof. John Dickinson, and the President of the University, each contributed one lecture. Miss Ellen Beach Yaw and Miss Ada Mariner gave a musical and literary evening to this course. The equipment of chemical, physical and other laboratories is well under way, and provision is being made for valuable extension of these facilities in the Polytechnic Hall. In this work, too, the University has been aided by generous friends, to whom grateful acknowledgments are due.

Donations

The gifts above referred to have been contributed as follows: By Mrs. J. C. Vaughan of Chicago, Ill., to Library and Furnishings; by Mrs. H. B. Manford of Sierra Madre, Cal., to Furnishings; by Hon. Delos Arnold of Pasadena to Scientific Cabinet; by Dr. William Channing of Pasadena to Library; by Mrs. Gould of Pasadena to Furnishings; by Prof. C. H. Keyes of Riverside to Library; a few citizens of Pasadena to Library; Mrs. C. S. Callender of Pasadena to Library; by Mr. Sam Canfield of Pasadena to Library; by Miss Emma B. Wait of Pasadena to Library.

Literary Societies

One association of students for literary, oratorical and parliamentary culture has already been organized. It is known as "The Philomathian Society." Its officers are Robert S. Allen, President, Fannie A. Hall, Vice-President, and Ella J. Cockrell, Secretary.

Discipline

The discipline of the institution will constantly keep in mind the development of self-governing citizens, self-respecting, law-abiding men and women. The helpfulness of the ever-watchful friend will take the place of the educational police officer. Students will be expected to attend whatever church their parents or guardians may elect. Sixteen societies have houses of worship and pastors located in this city. Representatives of all the leading denominations are found on the Faculty, and a definite effort will be made to establish in the community such a relationship for the student as is desired by the home.

Homes for Students

Nearly two floors of the commodious Wooster building are being handsomely fitted up as living rooms for students. These will be in charge of the Matron, Mrs. J. B. Sunderlin, and will be available at a rate of not more than one dollar per week for each student. Pupils desiring quarters in this building must apply early, as only a limited number will be received. *Arrangements are being made for the opening of a Students' Home Dining Hall in the immediate vicinity of the Wooster building, which will enable students to make the total cost of living less than is usually possible in California.*

Manual Training Department

It has been determined to make this department one of the leading features of the institution. One of its chief purposes will, in the language of Prof. George S. Mills, be "to foster a higher appreciation of the value and dignity of intelligent manual labor. A boy who sees nothing in manual labor but dull brute force, despises both the labor and the laborer. With the acquisition of skill in himself comes the willingness to recognize skill in his fellows. When once he appreciates skill in handicraft he honors the workman. This social influence must not be underrated. Many perplexing questions of the day arising from lack of sympathy between the classes and the consequent lack of discrimination between skilled and unskilled labor, will grow clearer as the influence of such an education is felt."

Dr. Woodward says: "A manual training school is not a school for the training of carpenters, blacksmiths, machinists and mechanical engineers. In a manual training school, properly so-called, no attempt is made to cultivate dexterity at the expense of thought. No mere slight-of-hand is aimed at, nor is muscular exercise of itself held to be of educational value. An exercise, whether with tools or with books, is valuable only in proportion to the demand it makes upon the mind for intelligent, thoughtful work. In the school shop the stage of mechanical habit is never reached. The only habit actually acquired is that of thinking. No blow is struck, no line drawn, no motion regulated from muscular habit. The quality of every act springs from the conscious will, accompanied by a definite act of judgment."

While 'tis true that the young man or woman who takes the manual training course afterwards masters any one of a score of arts, trades or callings in a few months where the average man or woman requires years, it is far from true that this training is only or chiefly valuable to the boy who is to be a carpenter, a blacksmith, a draughtsman, an architect, a machinist, an engineer or an artist. For the physician or surgeon no preparatory training is worth more. For the lawyer in this day of endless commercial litigation what preparation is better? For the preacher what training can better fit him to appreciate the condition of the masses of the people? And as "Learn to do by doing" becomes something more than a fine institute sentiment, such training for the teacher will be indispensable. The man who has to manage large commercial, manufacturing or constructive enterprises needs such training for the protection and economic expenditure of his capital, more than the laborer needs it for the winning of his bread.

It must not be assumed that the girl who takes this training is to become a draughtswoman, a milliner, an artist, an architect, a professional cook, housekeeper or dressmaker, a typewriter, a pharmacist or a teacher. True, she has prepared herself to rise to mastery in these lines; but she has also prepared herself for the thorough management of a home. She has secured a training as essential for the lady whom others must serve as for her who by skill wins her daily bread.

This department is to be located in Polytechnic Hall. This new structure, which is built of brick and two stories in height, has a frontage of one hundred and forty feet on Fair Oaks Avenue and eighty feet on Chestnut Street. It is to be finished and furnished for use on or before September 25, 1892, and will accommodate two hundred and forty students, working in three divisions. The first floor contains the forging shop, which is to be fitted up with twenty forges and anvils and all necessary tools. Next to the forging shop is the machine shop, with speed and power lathes, planers, shapers, drills, and general tools. Here too students will work in divisions of twenty each. A physical workroom, a physical lecture-room, and a physical laboratory well equipped with apparatus, also find place on this floor. A room devoted to sewing and garment making occupies the southeast corner of the first floor.

The second floor is devoted to six distinct lines. Along the Chestnut street front are situated the pattern shop, the moulding shop and the woodworking shop. The southern wing contains the chemical laboratory and lecture-room, the quarters of the cooking department, a room for the freehand and architectural drawing and clay modeling.

The central tower will be three stories in height and will contain the library which will be devoted almost entirely to the departments contained in "Polytechnic Hall."

It is proposed to complete the quadrangle a little later, by building a hall to be devoted to the special study of electricity and electrical appliances.

Mr. W. H. Parker of Washington University at St. Louis, and also a graduate of the famous St. Louis Manual Training School, has been secured to take charge of the industrial lines for the young men. Additional instructors will be secured from time to time as necessity requires.

The history of industrial education in its relations to woman repeats the record made in other lines. The world is slow to provide for woman facilities similar and equal to those prepared for men. Scott College, the Toledo Manual Training School, has been more eminently successful in this work than any other institution in America. Miss Mabel Wilson of that school has been called to take charge of the manual training for

girls. No pains will be spared to make this department second to none in the country.

Manual Training School Courses

Five parallel lines of work constitute the course of study for the Manual Training Department, which extends over four years, in which the school time of the student is about evenly divided between mental and manual exercises. Forty-five minutes of each day is given to freehand, architectural and mechanical drawing, while one and one-half hours daily are devoted to shop work. The five lines of work above referred to are as follows :

First—A course in English Language and Literature, History, Civics and Economics. Especial attention will be paid to the study of the English Language ; no other proficiency will be accepted as excuse for lack of ability in the art of writing or speaking English.

Second—A course in Mathematics, including higher Arithmetic, Book-keeping, Algebra, Geometry and Trigonometry.

Third—A course in Science, including Biology, Geology, Physics and Chemistry.

Fourth—A course in Freehand, Architectural and Mechanical Drawing.

Fifth—(a) A course of tool instruction involving carpentry, wood-turning, molding, brazing, forging, soldering, bench and machine work in metals, special work in electrical appliances. (b) Instruction in Domestic Economy, including light wood-work and carving, sewing, cutting and fitting of garments, home decoration, etc.

The order of study and work is substantially as follows :

Course of Study and Training for Young Men.

FIRST YEAR.

1. Mathematics—Higher Arithmetic, Algebra.
2. Science—Zoölogy, Botany.
3. Language—English, Composition and Literature.
4. Drawing—Freehand from objects and from casts. Ornamental designing and lettering. Practice line sheet with instruments. Simple projections with geometrical problems.
5. Shop-work—Joinery, Wood-turning, Wood-carving.

SECOND YEAR.

1. Mathematics—Algebra completed.
2. Science—Geology and Physical Geography, or Book-keeping.
3. Language—English, Rhetoric and Literature.
4. Drawing—Orthographic projections with line shading. Intersection of solids and development of surfaces with flat tinting. Isometric projections.
5. Shop-work—Forging, Bending and Upsetting, Welding, Tool-making, Ornamental Iron-work, Brazing.

THIRD YEAR.

1. Mathematics—Plane Geometry.
2. Science—Physics.
3. History—General History.
4. Drawing—Cornice designs with patterns for shop. Working drawings. Higher geometrical problems. Construction of gears, etc. Tracing and blue printing.
5. Shop-work—Pattern-making, Molding, Tinning, Cornice-work, Metal Spinning, Chipping and Filing, Machine Shop-exercises.

FOURTH YEAR.

1. Mathematics—Solid Geometry and Plane Trigonometry.
2. Science—Chemistry.
3. History—The History of Constitutional Development, with especial attention to the Constitutions of the United States and California.
4. Drawing—Perspective, Shades and Shadows, Architectural (floor plans, elevations, pen-sketching), Brush shading, final drawings.
5. Shop-work—Building machinery, both electrical and mechanical. Construction of physical apparatus. Electrical work: wiring, lighting, etc.

Latin, French and German are permitted as electives with the Science of the first two years and History of the third year.

Courses of Study and Training for Young Women.

FIRST YEAR.

1. Mathematics—Higher Arithmetic, Algebra.
2. Science—Zoölogy, Botany.
3. Language—English, Composition and Literature.
4. Drawing—Freehand or Mechanical, and Lettering.
5. Shop-work—Light carpentry, Wood-carving.

SECOND YEAR.

1. Mathematics—Algebra completed.
2. Science—Geology and Physical Geography, or Book-keeping.
3. Language—English, Rhetoric and Literature.
4. Drawing—Freehand or Mechanical, Designs for Wood-carving, Pen sketching.
5. Shop-work—Course in plain sewing: various stitches and seams in muslin work, button-holes, patching, darning, and one garment made entirely by hand.

THIRD YEAR.

1. Mathematics—Plane Geometry.
2. Science—Physics.
3. History—General History.
4. Drawing—Freehand or Architectural, and Mechanical Designing.
5. Shop-work—Instruction and actual practice by each pupil in cooking, including boiling, broiling, baking, frying and mixing, with their subdivisions. Chemistry of cooking. Instruction in the purchase and care of household supplies. Arrangement and decoration of the table.

FOURTH YEAR.

1. Mathematics—Solid Geometry and Plane Trigonometry.
2. Science—Chemistry.
3. History—The History of Constitutional Development, with especial attention to the Constitutions of the United States and California.
4. Drawing—Architectural Details and Decorative Designing. Life Studies.
5. Shop-work—Dressmaking: Measuring, Drafting, Cutting, Fitting and making of garments by each pupil. Instruction in shopping. Theory and Art of Dress as regards form and color. Relation of Dress to climate, condition, habit.

Latin, French and German are permitted as electives with the Science of the first two years and History of the third year.

Conditions of Admission

TO MANUAL TRAINING DEPARTMENT.

Candidates must present a satisfactory certificate of good moral character and pass examination in the following subjects: 1. Arithmetic, through Percentage and its applications. 2. Common School Geography. 3. United States History. 4. Reading and Spelling. 5. The writing of good Descriptive and Narrative English, with correct use of capitals and punctuation. 6. The Elements of English Grammar.

Similar examination will admit to the Preparatory Department.

Pupils not fully prepared can make preparation in the Sub-preparatory Department.

Pupils seeking advanced standing will be accorded the same after satisfactory examination.

Special classes in cooking, sewing, etc., will be organized for ladies desiring such opportunity.

Requirements for Admission to the Freshman Classes

1. Mathematics: Arithmetic, including the Metric System, and excluding the technical parts of Commercial Arithmetic; Algebra through Quadratic Equations; Plane and Solid Geometry, and Plane Trigonometry.

2. English: The essentials of English Grammar and the principles of English Composition and Rhetoric as presented in the first seventy-one lessons of Kellogg's Text-book, or any other of equivalent grade. A thorough knowledge of the writings of some one author, and familiar acquaintance with the following works: Bulfinch's *Age of Fable* (first twenty-nine chapters), Scott's *Lady of the Lake*, Irving's *Alhambra*, Thackeray's *Newcomes*, Shakspeare's *Merchant of Venice*, and Julius Cæsar.

3. Latin: Grammar, including Prosody, as presented in Allen and Greenough or Harkness; Cæsar (*Gallic War*, Books I-IV); Cicero (six orations, including the four *Catilinarian Orations*); Virgil (six books of the *Æneid*), with questions in all cases on the implied grammar, the subject-matter and the archeology naturally suggested, and in the case of the poetry on the prosody; sight translation of easy Latin prose; translation into Latin of brief narrative.

4. Greek: White's *First Lessons in Greek*, I-LX; Xenophon's *Anabasis*, Books II-IV; Homer's *Iliad*, Books I and II, omitting catalogue

of the ships; questions on grammar, subject-matter, archeology, and, in the case of Homer, on prosody; Jones' Greek Prose Composition, or its equivalent; sight translation of easy Greek prose.

5. Modern History and Geography: History of the United States and a general knowledge of Physical and Political Geography, and an elementary knowledge of the Government of the United States.

6. Ancient History and Geography: Smith's History of Greece, to the death of Alexander; Liddell's History of Rome, to the death of Commodus, with connected geography.

7. Mediæval and Modern History: Some such work as Myer's Mediæval and Modern History will indicate the amount required.

8. Science: Physics; Gage's or Appleton's School Physics, Biology, and the elements of either Geology or Chemistry.

9. Modern Languages: Two years of French, German or Spanish, including the ability to read at sight simple prose, to translate simple English into the language chosen, and also a knowledge of the principles of the grammar of the language.

10. Civics: One year's study of Constitutional Development.

Candidates for admission to the Ancient Classical Course, leading to the degree of Bachelor of Arts, will be required to qualify in subjects: 1 (omitting Trigonometry, Algebra after Quadratics and Solid Geometry), 2, 3, 4, 5, 6, and Modern History.

Candidates for admission to the Philosophical Course, leading to the degree of Bachelor of Philosophy, will be required to qualify in subjects: 1 (omitting Trigonometry, Algebra after Quadratics and Solid Geometry), 2, 3, 5, 6, 9, and Modern History.

Candidates for admission to the Scientific Course, leading to the degree of Bachelor of Science, will be required to qualify in subjects: 1, 2, 5, 7, 8 and 9.

Candidates for admission to the English Course, leading to the degree of Bachelor of Letters, will be required to qualify in subjects: 1 (except Solid Geometry and Trigonometry), 2, 5, 6, 7, 8, 10, and in addition must give evidence of familiarity with the following works: Whittier's *Snow Bound*, Longfellow's *Evangeline*, Lowell's *Sir Launfal*, *Sir Roger de Coverly*, Payne's *Burke*, Vol. I, and Hale's *Longer English Poems*.

The graduates of high schools and academies accredited to the University of California or Leland Stanford Junior University will be admitted without examination. All candidates must present evidence of good moral character. Students who are not prepared to enter college will find excellent facilities for making such preparation in the Academic Department, the course of study for which is given below:

Courses of Study for Academic Department

SCIENTIFIC COURSE	ANCIENT CLASSICAL COURSE	PHILOSOPHICAL COURSE	ENGLISH COURSE
FIRST YEAR			
Higher Arithmetic—Algebra English. Biology.	Higher Arithmetic—Algebra English. Latin.	Higher Arithmetic—Algebra English. Latin.	Higher Arithmetic—Algebra English. Biology.
SECOND YEAR			
Algebra. English. Medieval and Modern History.	Algebra.—Modern History. English. Latin.	Algebra.—Modern History. English. Latin.	Algebra. English. Medieval and Modern History.
THIRD YEAR			
Geometry. French, German or Spanish. Physics.	Geometry. Latin. Greek.	Geometry. Latin. French, German or Spanish.	Geometry. Civics. Physics.
FOURTH YEAR			
Solid Geometry and Trigonometry. French, German or Spanish. Chemistry.	Greek and Roman History. Latin. Greek.	Greek and Roman History. Latin. French, German or Spanish.	Greek and Roman History. Geology. English.

Courses of Instruction in College

(For the coming year none but Freshman and Sophomore Classes will be organized.)

ENGLISH—Freshman Year. Prose Composition and Advanced Rhetoric.
Sophomore Year. English Literature from its beginnings to the present.

LATIN—Freshman Year. Livy, Cicero and Terence, with Latin Composition.

Sophomore Year. Horace and Plautus, with Latin Composition and Roman Literature.

GREEK—Freshman Year. Attic Prose and Homer, sight reading and composition.

Sophomore Year. Plato, Euripides, Æschylus and Sophocles.

FRENCH—Freshman Year. } Advanced Courses in Grammar,
Sophomore Year. } Literature and Conversation.

GERMAN—Freshman Year. } Advanced Courses in Grammar,
Sophomore Year. } Literature and Conversation.

MATHEMATICS—Freshman Year. Spherical Trigonometry with a review of Plane Trigonometry.

Sophomore Year. Surveying and Conic Sections.

HISTORY—Freshman Year. Europe during the Middle Ages, and Constitutional History of England.

Sophomore Year. Europe from the Reformation to the French Revolution, and the History of the English Colonies in America.

SCIENCE—Freshman Year. Systematic and Economic Botany.

Sophomore Year. Comparative Zoölogy.

General Physics or Geology may be substituted during the Freshman Year, and Organic Chemistry or Mineralogy during the Sophomore Year.

General Information

Students of sufficient preparation desiring to take special courses in Collegiate, Preparatory, or Manual Training Departments will be admitted on application to the President of the University. Applications for admission should be filed with the Secretary as early as possible. Classification examinations will commence on September 17, and departments will organize on September 20.

Term bills will be payable strictly in advance, and students should present the Secretary's receipt for the same on making application for admission to classes.

No allowance will be made for absence unless occasioned by protracted illness. All requests for rebates must be addressed to the Executive Committee.

Tuition and Expenses.

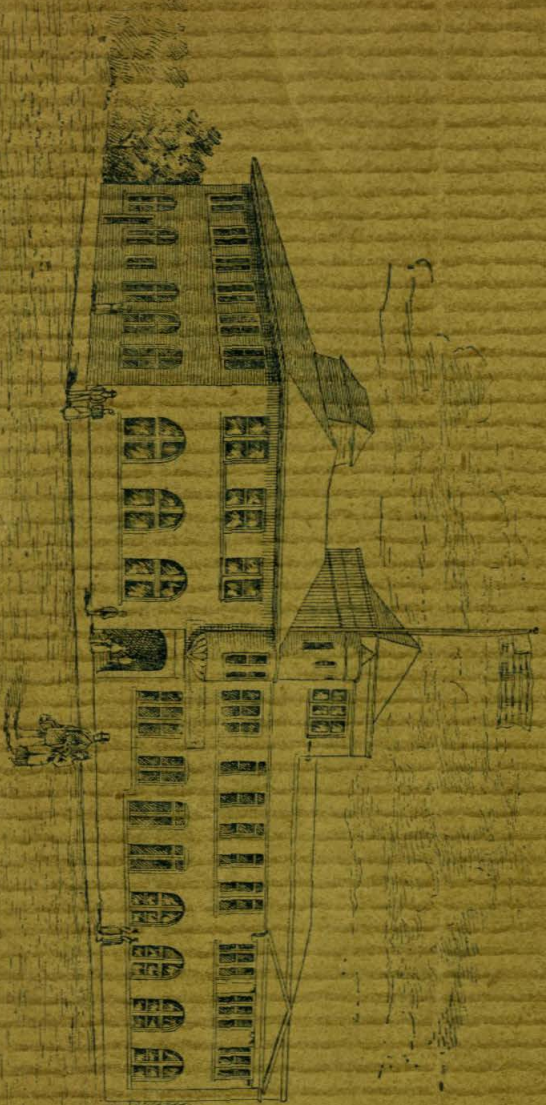
Tuition per half year in College,	\$40 00
Tuition per year, in College, if paid in advance,	75 00
Tuition per half year in Manual Training Department,	40 00
Tuition per year, in advance, Manual Training Department,	75 00
Tuition in Preparatory Department, per half year,	35 00
Tuition in Preparatory Department, per year, in advance,	60 00
Vocal Music, per lesson,	2 00
Instrumental Music, per lesson,	1 25
Art, per lesson,	1 00
Art, lessons per term,	24 00
Stenography and Typewriting, per month,	10 00
Room Rent, per week,	1 00
Board, per week,	\$3 50 to 4 00
Incidentals, per term,	1 00

For further information address

PRES. CHARLES H. KEYES,

THROOP UNIVERSITY,

Pasadena, Cal.



POLYTECHNIC HALL, THROOP UNIVERSITY