

Series I.

Number II.

BULLETIN

OF THE

University of Notre Dame

NOTRE DAME, INDIANA



PICTORIAL NUMBER

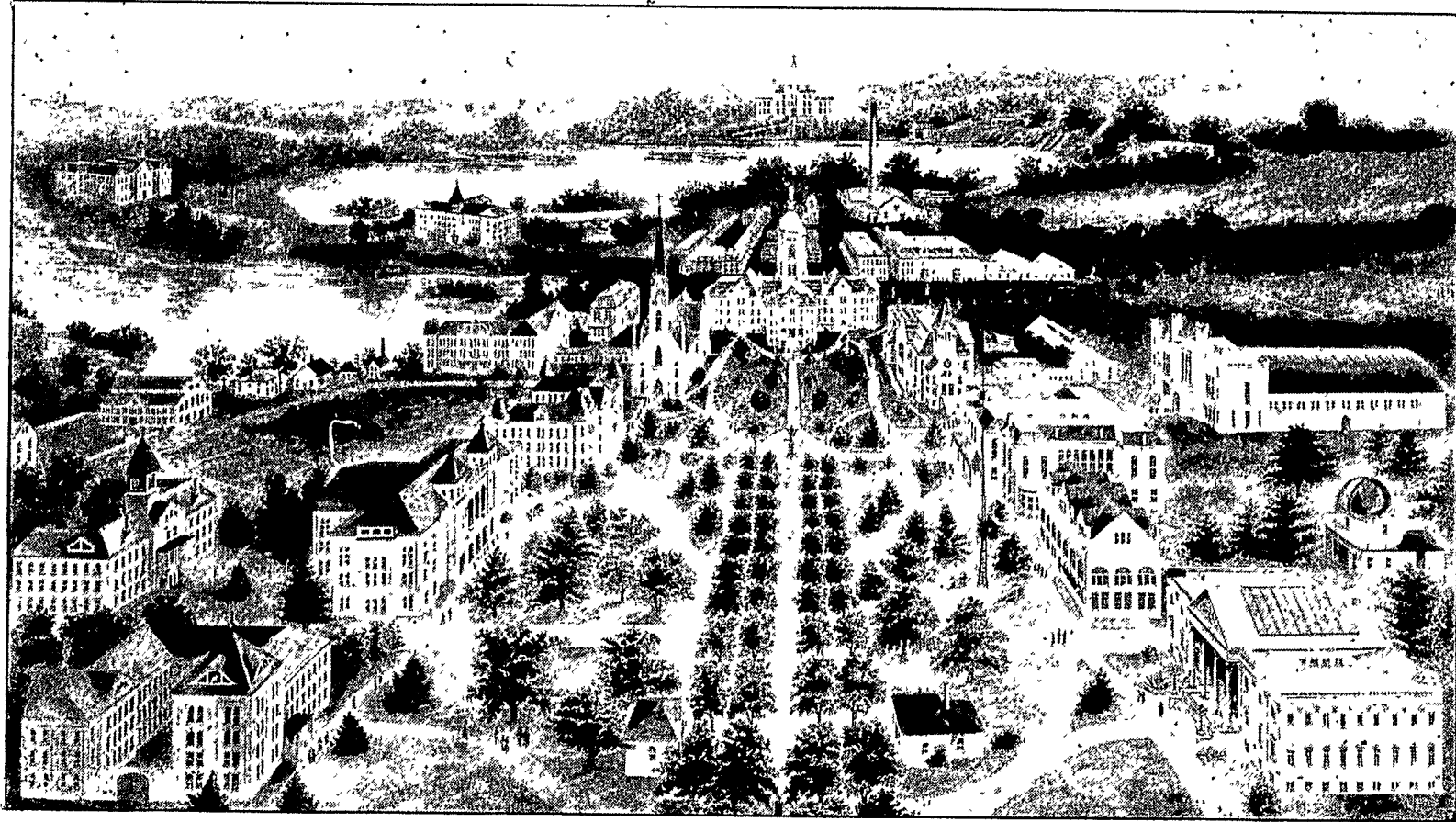
AUTUMN, 1905

PUBLISHED QUARTERLY AT NOTRE DAME

UNIVERSITY PRESS

OCTOBER, 1905

Entered at the Postoffice, Notre Dame, Indiana, as second class matter,
July 17, 1905.



THE UNIVERSITY OF NOTRE DAME—BIRD'S EYE VIEW.

Series I.

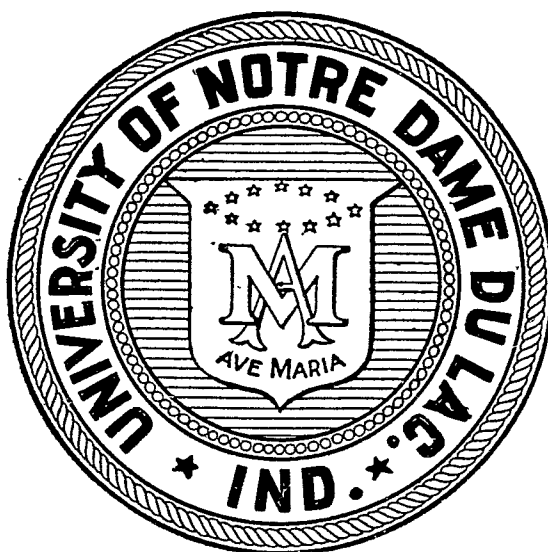
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DIRECTORY OF THE UNIVERSITY.

The FACULTY—Address:

THE UNIVERSITY OF NOTRE DAME,

NOTRE DAME, INDIANA

The STUDENTS—Address:

As for the faculty, except that the name of the
HALL in which the student lives should be added.

A Postoffice, a Telegraph Office, a Long Distance
Telephone, and an Express Office are at the University.

The University is two miles from the city of South Bend, Indiana, and about eighty miles east of Chicago. The Lake Shore and Michigan Southern, the Grand Trunk, the Vandalia, the Indiana, Illinois & Iowa, and the Michigan Central railways run directly into South Bend.

CALENDAR FOR 1905-1906.

- SEPTEMBER 12. Examination of Conditioned Students.
13-14. Entrance Examination.
15. School begins.
17. Reading of University Regulations in all the Halls.
- OCTOBER 13. Founder's Day.
27-28. Bi-Monthly Examinations.
29. Annual Retreat begins in the evening.
- NOVEMBER 1. Feast of All Saints.
30. Thanksgiving Day.
- DECEMBER 5. Contest in Oratory.
8. Feast of the Immaculate Conception.
18-19. Winter Examinations.
19. Christmas Vacation begins.
- JANUARY 5. School begins.
- FEBRUARY 2. State Oratorical Contest.
22. Washington's Birthday.
23-24. Bi-Monthly Examinations.
- MARCH 17. St. Patrick's Day.
19. St. Joseph's Day.
- APRIL 15. Easter. *No Easter Vacation.*
16. Easter Monday.
24-25. Bi-Monthly Examinations.
- MAY 1. Latest Date for handing in Prize and Graduation Essays in all Collegiate Courses.
16. Contest in Elocution.
30. Decoration Day.
- JUNE 4-9. Examination of Graduates.
10. Baccalaureate Sermon.
11-13. General Examinations.
13. Commencement. Preliminary Exercises
7:30 P. M.
14. Graduation Exercises, 8:00 A. M.

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UNIVERSITY OF NOTRE DAME.

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UNIVERSITY OF NOTRE DAME.

II

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BRO. GERARD, C. S. C.,
Instrumental Music.

DAMIS PAUL,
Piano and Violin.

J. LUDWIG FRANK,
Director of the Band.

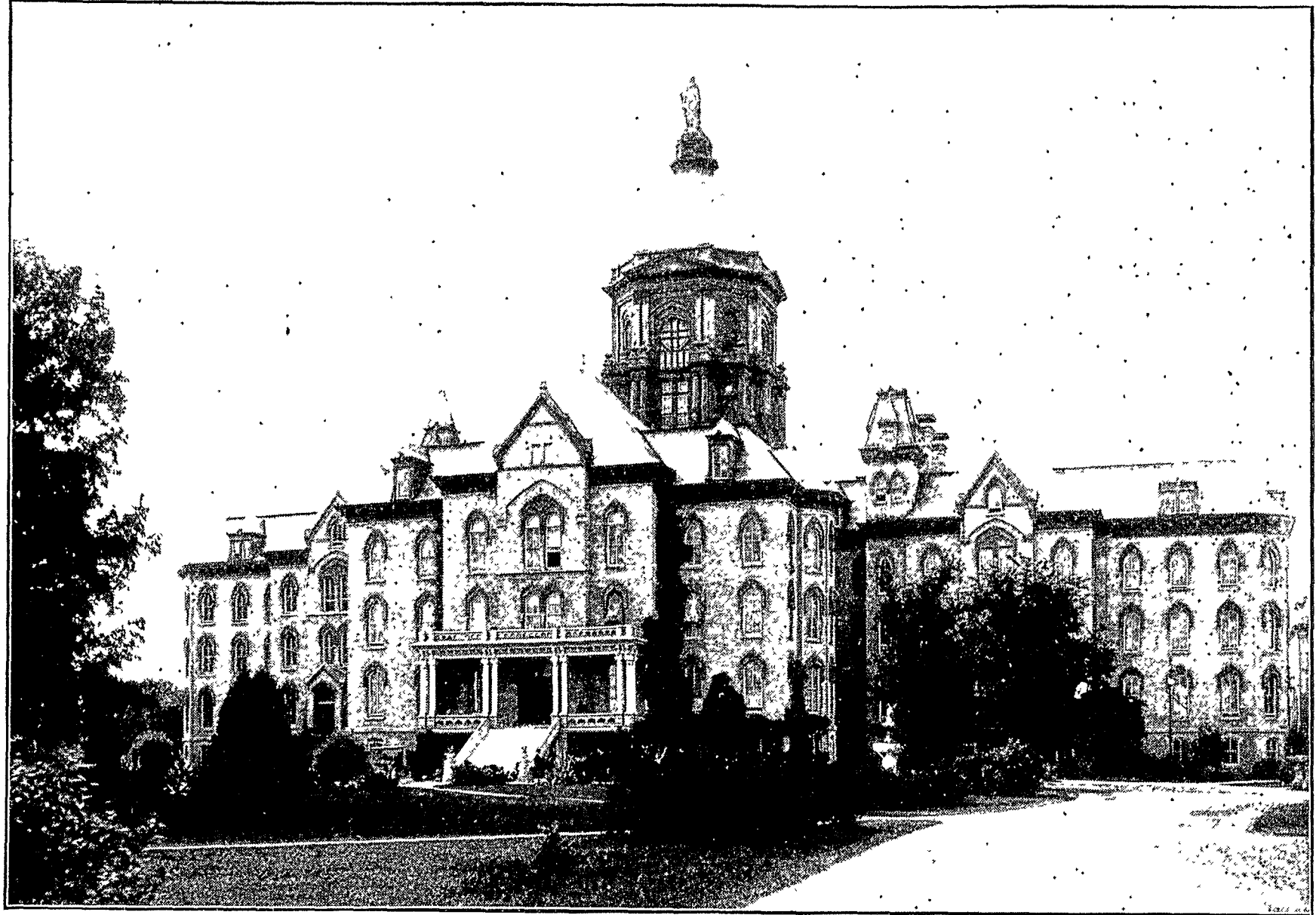
MILTON B. GRIFFITH,
Vocal Culture.

BENJAMIN R. ENRIQUEZ, C. E.,
Mathematics.

EDWARD M. SCHWAB, LL. B.,
Law.

WILLIAM B. KELLY,
Shopwork.

HENRY F. MAY,
Director of Gymnasium.



THE MAIN BUILDING.

UNIVERSITY OF NOTRE DAME.

The University of Notre Dame was founded in the year 1842, by the Very Reverend Edward Sorin, the late Superior General of the Congregation of Holy Cross. In an act approved January 15, 1844, the Legislature of Indiana gave the University power to grant degrees. The beginning of this act is :

"Be it enacted by the General Assembly of the State of Indiana, that Edward Frederick Sorin, Francis Lewis Cointet, Theophilus Jerome Marivault, Francis Gouesse, and their associates and successors in office, be, and are hereby constituted and declared to be, a body corporate and politic, by the name and style of the 'University of Notre Dame du Lac,' and by that name shall have perpetual succession, with full power and authority to confer and grant or cause to be conferred and granted, such degrees and diplomas in the liberal arts and sciences, and in law and medicine, as are usually conferred and granted in other universities in the United States, provided, however, that no degree shall be conferred or diplomas granted, except to students who have acquired the same proficiency in the liberal arts and sciences, and in law and medicine, as is customary in other universities in the United States."

UNIVERSITY BUILDINGS.

THE MAIN BUILDING.

The dimensions of this building are 320 by 155 feet ; it is five stories in height and is surmounted by a dome 207 feet in height. The executive offices, two study-halls, some dormitories and class-rooms and the refectories are in this building. The Library and the Bishops' Memorial Hall are also here temporarily. This building, like all others in the University, is lighted by electricity and gas, and heated by steam. The corridors of the first floor are decorated with mural paintings by Gregori.

THE CHURCH.

The Church of the Sacred Heart is 275 by 120 feet in ground dimensions and 125 feet in height from the floor to the roof-edge. The interior is decorated by Gregori, and the architecture is Gothic. There is a large crypt and many chapels. In the tower are a chime of 32 bells and the great six-ton chief bell.

THE LIBRARY.

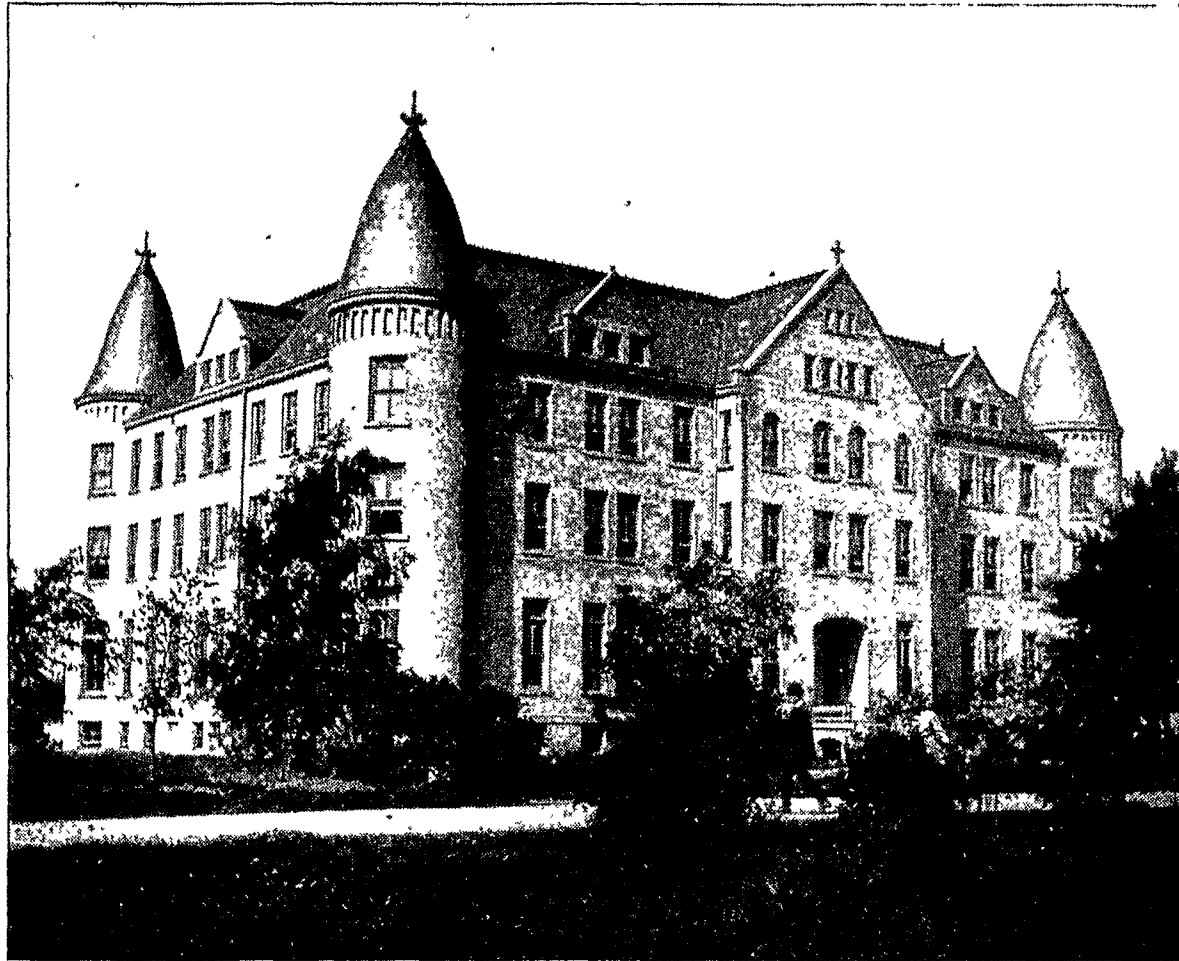
The Library contains 55,000 volumes. Students have access to it from 8:00 a. m. to 9:00 p. m.

WASHINGTON HALL.

This hall is 170 feet in length, 100 feet in width, and about 100 feet in height. It contains the rooms of the Department of Music, the reading rooms for Brownson and Carroll Halls, and the University Theatre. The Theatre is elaborately equipped with stage settings. It will seat 1,200 persons.



THE UNIVERSITY CHAPEL.



SORIN HALL.

SCIENCE HALL

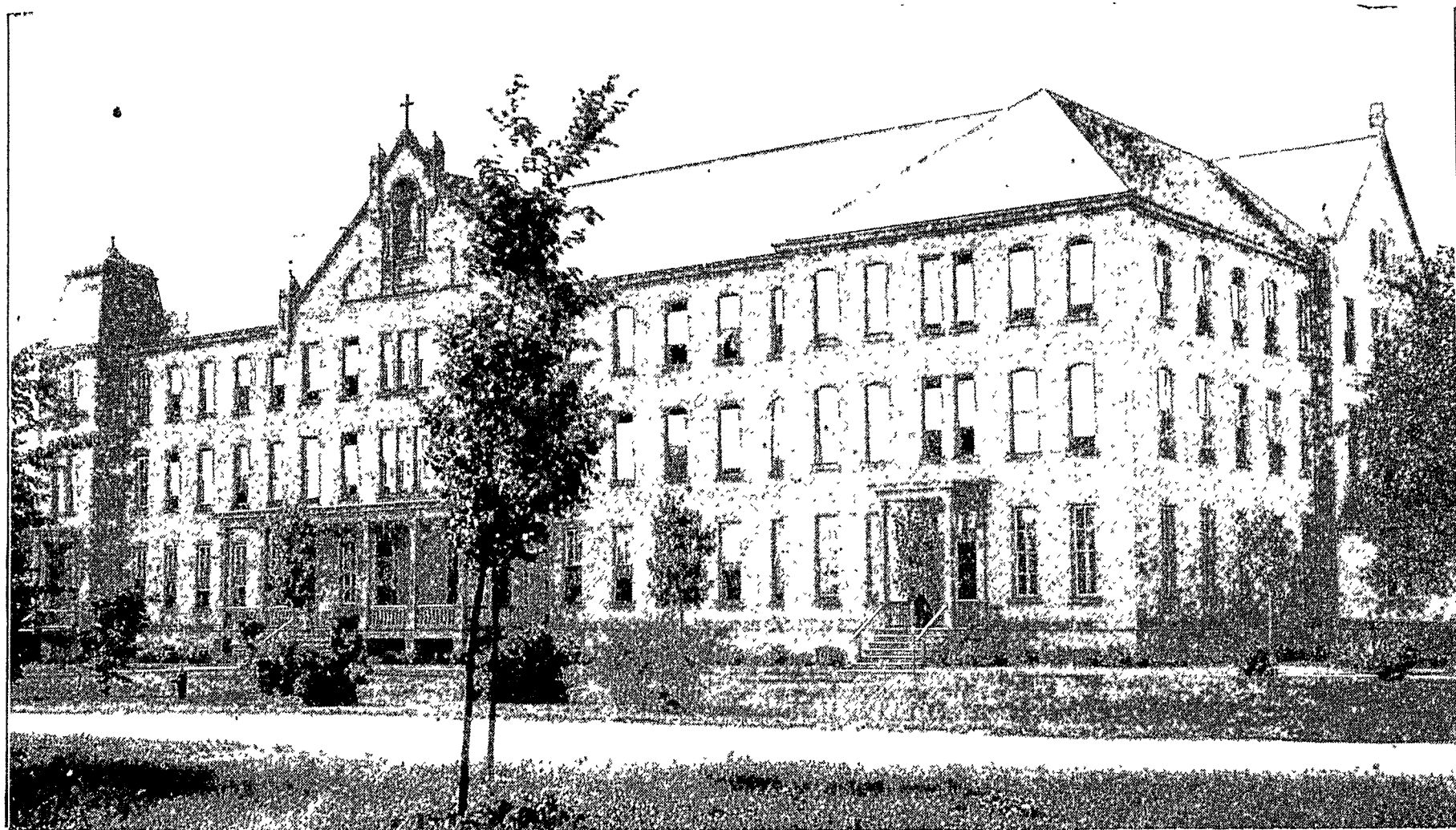
is situated a few steps south of Washington Hall. Its dimensions are 104 by 131 feet, and it is three stories in height. A large central space, the full height of the building, is occupied by a museum containing mineral, fossil, and biological specimens.

THE CHEMICAL DEPARTMENT

occupies the entire north side of the first and second floors of Science Hall.

On the second floor, and adjoining the general museum, is a large and well lighted room reserved for a library and chemical museum. Here are a library of chemical journals and books, and a steadily increasing collection of minerals, chemicals, and chemico-technical products of all kinds, designed to serve as illustrations of substances and processes, discussed in the various lecture courses. Adjoining this room are, successively, an apparatus room, filled with the most modern apparatus for lecture and experimental work; a chemical store-room, where laboratory supplies may be procured by the students; a lecture room, and a laboratory for qualitative and quantitative analysis. The laboratory is furnished with hoods, of good draught; the desks are provided with water, gas and the necessary reagents, and fully equipped with apparatus for work in gas analysis, organic analysis, and with apparatus for "Boiling Point and Freezing Point Determinations." The Balance Room, adjoining, contains assay and analytical balances sensitive to one ten-thousandth of a gramme. The lecture room is provided, among other things, with apparatus for stereopticon illustration, with electric batteries, and with a complete set of charts illustrative of the process employed in modern chemical industries.

The assay and furnace-room, on the first floor, is



CORBY HALL.

equipped with a set of gas furnaces of the most modern type, for the operations of roasting, fusing, scorifying and cupelling employed in the dry assay of ores.

The Department of

PHYSICS AND ELECTRICAL ENGINEERING

is located in the south wing. There is a large lecture room, with a seating capacity of sixty-five students, adjoining the rooms in which the apparatus is stored in dust-proof cases. Several smaller rooms in the basement contain heavy piers of masonry, for work with sensitive galvanometers.

The following is a partial list of the more important pieces of apparatus in the Physical Laboratories :

IN MECHANICS, ETC.:

Large physical balance,	Break circuit recording chronograph,
Standard kilogram,	
Standard metre,	Powerful hydraulic press with attachments,
Geneva cathetometer, capable of measuring to one twenty-five thousandth of an inch,	Rotary air pumps and receivers,
Dividing engine,	A large clock with electrical contact pieces,
Atwood's machine,	Self-winding clocks,
Compound pendulum,	Several mercury barometers,
	Two aneroid barometers.

IN ACOUSTICS :

A Mercadier radiophone,	Koenig's movable tuning forks, to draw compound curves on smoked glass,
Set of Koenig resonators,	
Set of electrically - operated tunnel forks by Koenig,	Three sets of organ pipes,
A Scott-Koenig Phonautograph,	Four sets of fine tuning forks,
Edison phonograph of earliest type,	Apparatus for manometric observation of sound phenomena,
Sets of vibrating rods, tubes and bells,	A large tuning fork producing the lowest audible sound,
Large double siren,	

A set of very small tuning forks producing the highest audible sounds,

A set of resonators mounted together with capsules for sensitive flames, arranged for the analysis of complex sounds,

Apparatus for producing longitudinal vibrations in rods,

An electrical metronome,

Mounted tuning forks carrying small mirrors arranged to perform Lissajou's experiment, producing complex curves.

IN LIGHT :

Complete set of apparatus, made by Soleil, Paris, for the measurement of the wave length of light by the various interference methods,

Sets of polarization apparatus,

Sets of lenses and spherical mirrors,

Two heliostats,

Four spectroscopes,

A polarizing saccharimeter,

Three projecting lanterns for gas or electric light, and 3,000 slides,

Set of large Nicol's prisms mounted,

Large compound prism to form widely dispersed spectrum,

Two Rowland gratings, 14,000 lines to the inch,

Set of photographs of solar spectrum by Rowland,

Several cameras with lenses and attachments,

A well equipped dark-room for photographic work,

Photometric room and equipment.

IN HEAT :

Melloni's apparatus for measuring radiation, absorption and reflection of heat, complete with a set of prepared substances,

Standard thermometers,

Air thermometers,

Steam engine indicator,

Calorimeters,

Apparatus for determining the coefficient of linear expansion, using the optical lever method.

IN ELECTRICITY AND MAGNETISM :

An absolute electrometer,

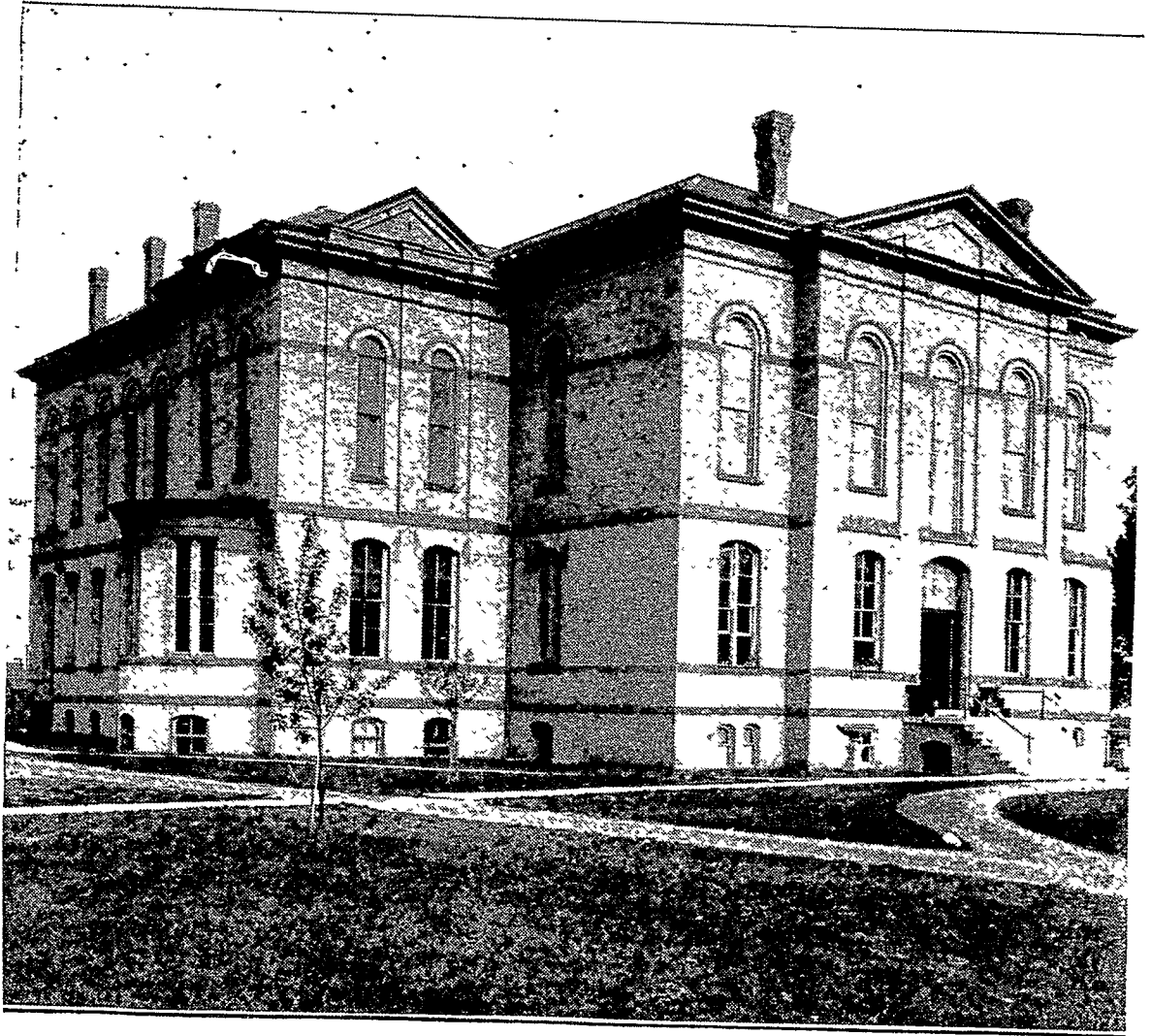
Holtz machine and apparatus for illustrating static phenomena,

Four induction coils,

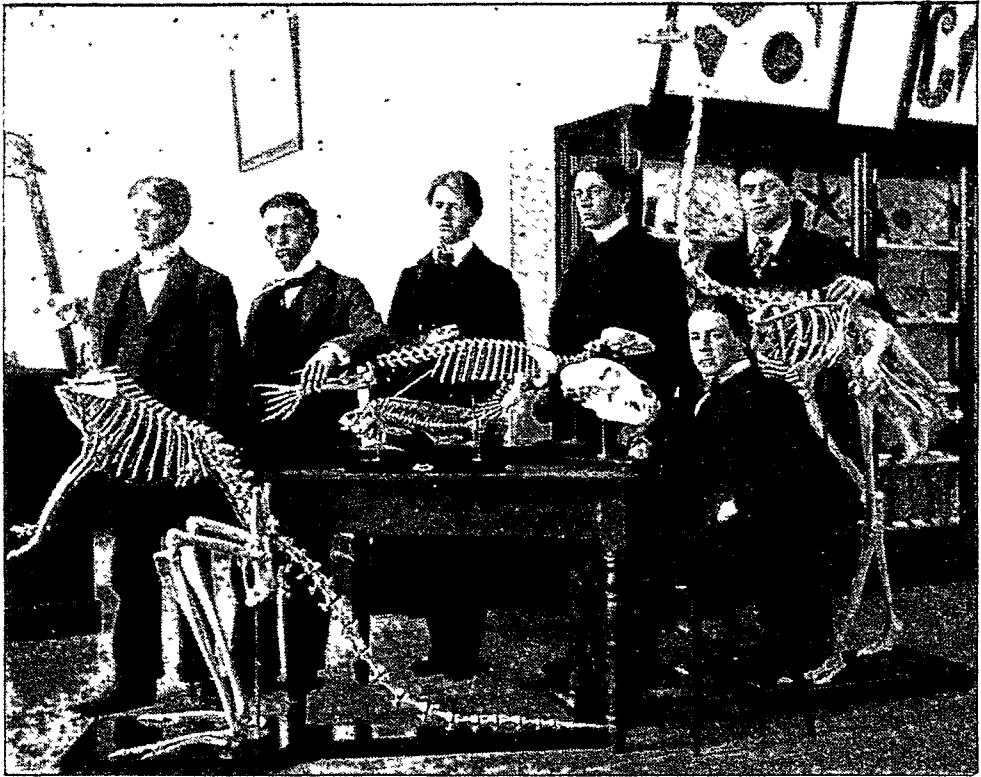
Six bridges of different types,

Historical set of motors showing evolution of the modern machine from the early forms of the reciprocating type.

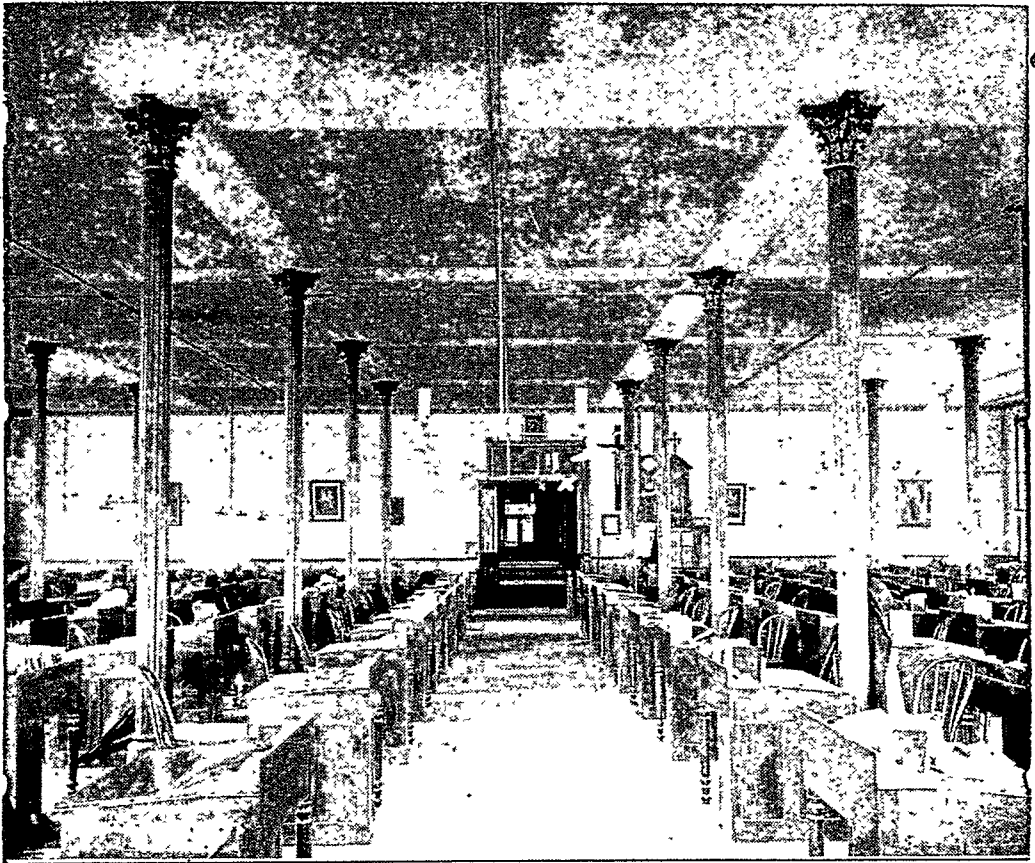
Ten galvanometers of various types,



SCIENCE HALL.



A CLASS IN SCIENCE HALL.



A STUDY HALL.

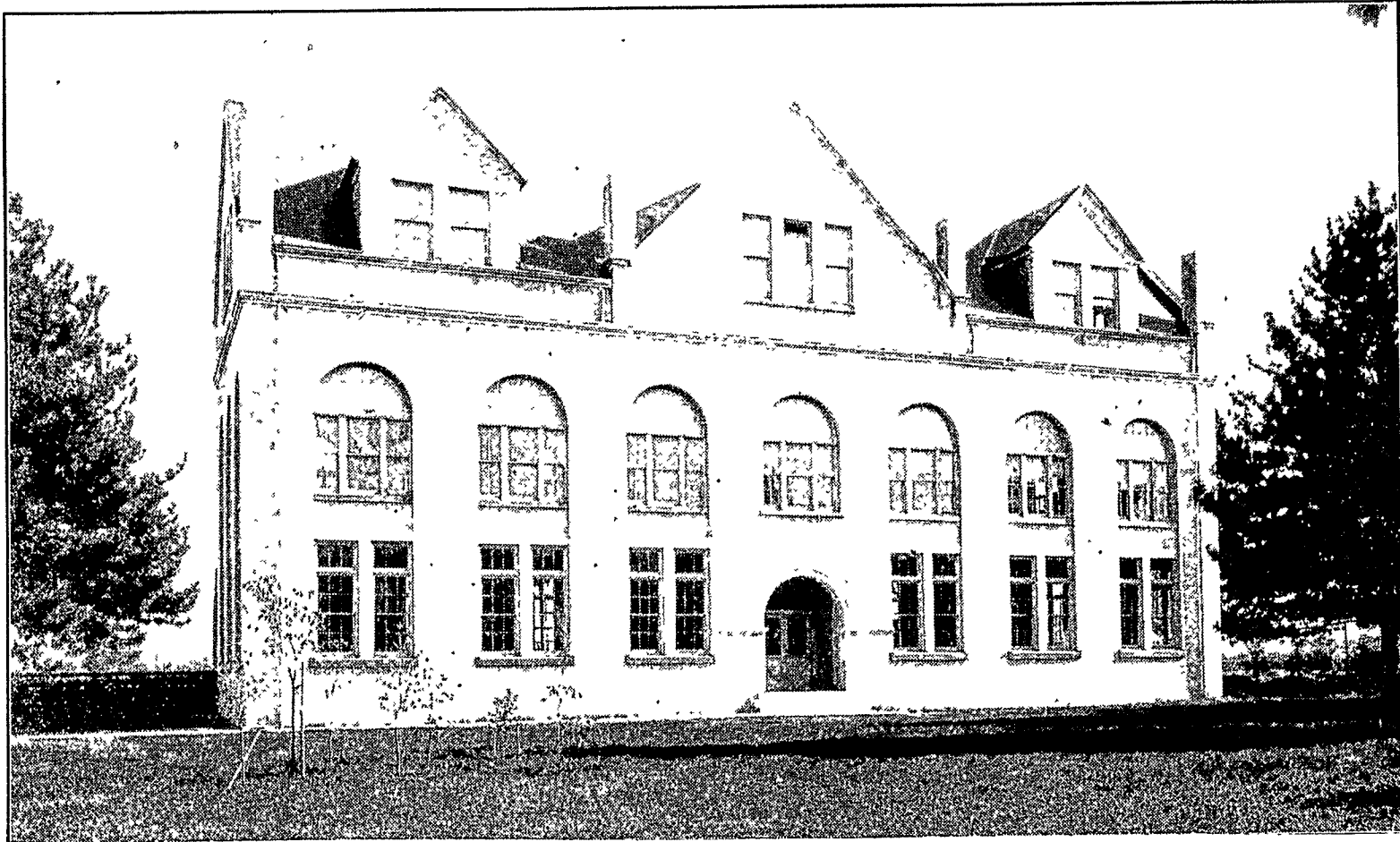
Ammeters and voltmeters,
 One 2,000 lb. electro magnet,
 Standard resistance coils,
 Several sets of storage cells,

Complete X-ray outfit,
 Sets of apparatus for wireless
 telegraphy.

In addition to the electrical apparatus in the Department of Physics, the equipment for practical work in Electrical Engineering consists of engines, dynamos, instruments, etc., of commercial size, as follows :

A three phase A. C. induction motor, arranged to operate on single phase circuits, with a condenser compensator,
 A high frequency 1000 V., 33 K. W., composite wound, Wood alternator of the latest type, with exciter and a full set of switchboard instruments,
 Several transformers of different capacity,
 A high tension transformer for testing insulation,
 An Edison bipolar 15 K. W. 125 V., generator,
 A Thompson-Houston arc light machine with regulator and fifteen lamps,
 A Wood arc machine, capacity 25 lights,
 An Edison bipolar 3 K. W. 125 V., dynamo, with special winding,
 A Van Depoele compound wound dynamo,
 A special A. C. and D. C. 5 H. P. dynamo or rotary converter.
 A series wound dynamo with wrought iron field,
 A number of small motors,
 A forty horse power high speed automatic engine,

A power or foot lathe with wood turning tools, drills and hand tools for metals,
 D'Arsonval and common galvanometers,
 Ballistic galvanometer, standard condenser, etc., for capacity work,
 Resistance boxes, standard megohms, etc.,
 High resistance Thompson galvanometer,
 Standard cells,
 Voltmeter arranged for the comparison of incandescent lamps,
 A plug switchboard controlling all circuits,
 A calibrating lamp rack,
 A small engine belted to shafting to drive a plating dynamo and a buffer for cleaning and polishing work to be plated; solution, tank, etc., — in all, a complete outfit for electro-type work,
 A hot wire ammeter,
 Twelve ammeters and voltmeters, mostly of the Weston type for direct current measurements,
 A set of wood working tools,



CHEMISTRY HALL.

- A set of inclined coil alternating current portable instruments; voltmeter, ammeter and wattmeter,
- A set of tools for metal working,
- Telegraphing relays, sounders, switchboards, etc.,
- Telephone apparatus, including subscribers sets of various modern types, a fifty drop manual switchboard complete and a lot of separate drops, jacks, switches, lightning arresters, etc.,
- Automatic telephone switchboard containing first and second selector and connector switches, interrupter heat coils, etc., and three subscribers sets. With this apparatus all the operations involved in the operation of a 10000 system may be performed.
- A complete central energy switchboard, several lines and subscribers sets and a selective signaling four party line outfit,
- A collection of historical sets, including Reis' transmitter and receiver,
- Standard portable bridge,
- Common portable bridge,
- Testing battery,
- Kohlrausch bridge for measuring battery resistance, etc.,
- A lot of arc lamps, series and constant potential, open and enclosed arcs of various types.
- A dynamometer type wattmeter,
- Recording wattmeters of various types,
- A collection of motor starting rheostats,
- A set of parts of incandescent lamps showing the various stages in their manufacture,
- A large collection of porcelain insulators, etc., used in electrical work, including a lot of insulators for high tension transmission lines,
- A lot of armature core disks, transformer core stampings, formed coils, brush holders, pole pieces, samples of insulation, commutator segments, etc., used in dynamos of good design, donated by leading manufacturers of electrical machinery,
- A case of marked samples of wire insulators, lamps, and other construction materials,
- Library of practical technical books of reference and files of leading periodicals and trade publications.

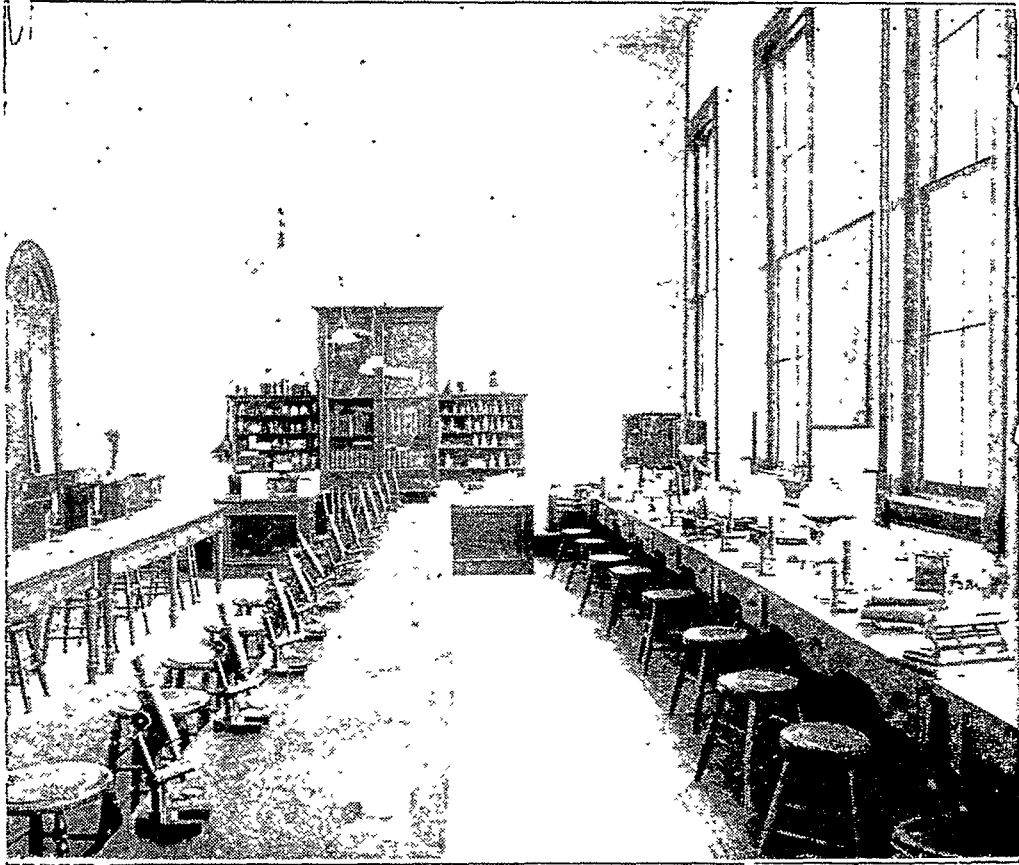
EQUIPMENT IN THE DEPARTMENTS OF BIOLOGY,
GEOLOGY, AND MINERALOGY.

The Department of Biology, on the north side of the second floor of Science Hall, consists of three large classrooms and laboratories properly ventilated and lighted. There are also private laboratories set apart for post-graduate students. All the class-rooms are furnished with charts and models necessary in teaching the different courses. The arrangement of windows is such that the rooms can be easily darkened so that a stereopticon and lantern slides on the subjects of Botany, Zoology, and Physiology may be used.

The Laboratories are well equipped with compound and dissecting microscopes, and in each room there is a library of books pertaining to biological subjects. The botanical laboratory contains twenty-four compound microscopes and all the requisite accessories for work in Vegetable Histology and Cryptogamic Botany. The general laboratory of Microscopy, Histology and Embryology is also supplied with compound microscopes and the equipments indispensable in the courses mentioned above.

The bacteriological laboratory is completely equipped with compound microscopes, incubators, sterilizers, and all the improved apparatus employed in thorough and careful work in Bacteriology. Apart from the others is a laboratory of Photo-Micrography which contains a perfect photo-micrographic instrument with a complete set of accessory apparatus for experimentation, photographing microscopic objects, making lantern-slides, etc. A large and fully equipped dark-room adjoins this laboratory.

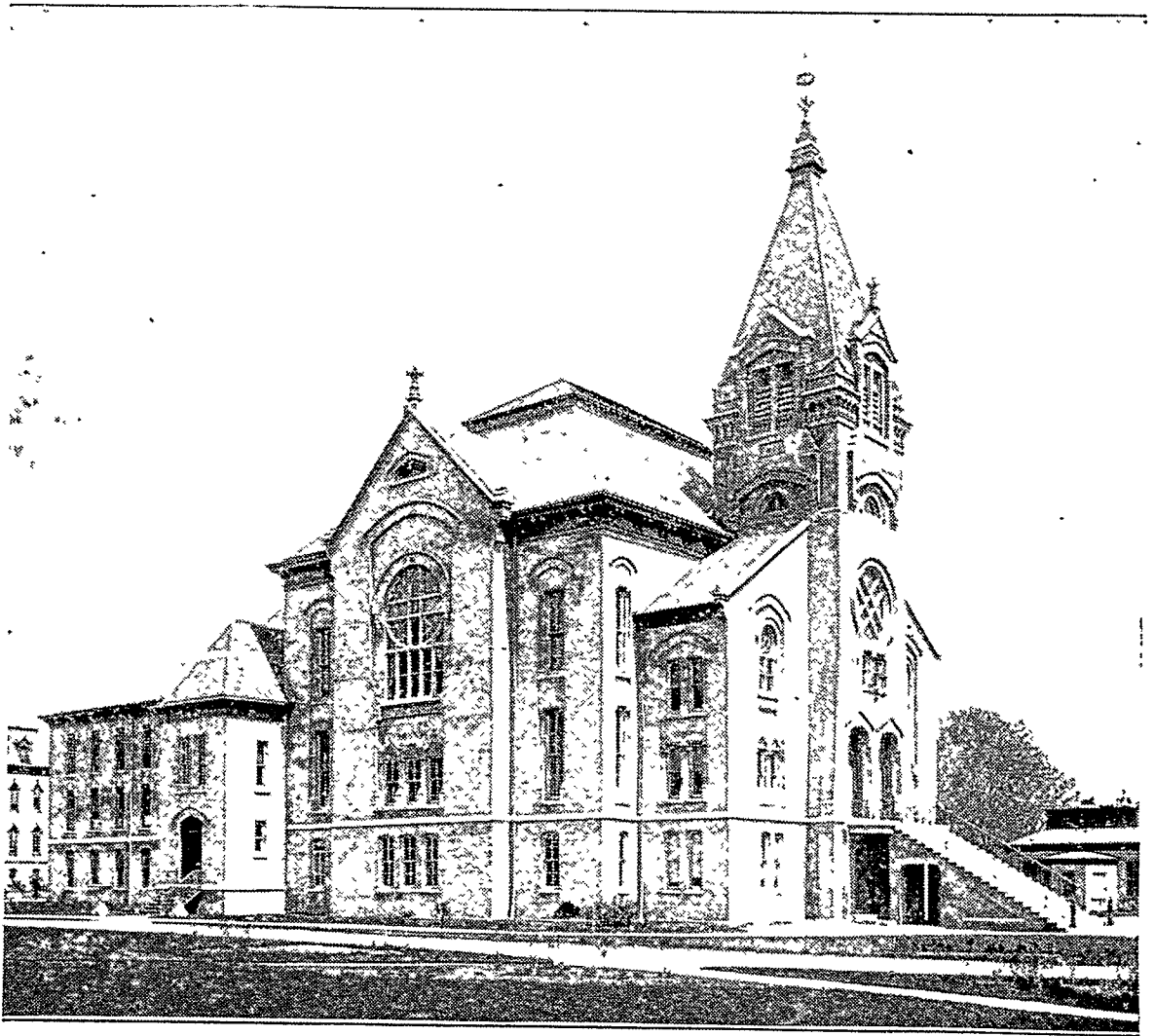
The south side of the second floor consists of classrooms and laboratories for the courses in Geology and



A LABORATORY IN SCIENCE HALL.



HANDLING DANGEROUS BACTERIA.



THE UNIVERSITY THEATRE.

Mineralogy. The laboratories adjoining the class-rooms are well equipped for work in blow-pipe analysis and assaying.

THE MUSEUM

connected with the departments described above, is well arranged for convenience of study. The zoological collection on the second floor at present fills sixteen large cases and represents typical forms of all the orders and genera of vertebrate and invertebrate animals. A large collection of representative vertebrate skeletons has recently been added to this part of the Museum.

The botanical collection, also on this floor, consists of two complete Herbaria, one of the United States, the other of Canada. There is also a second collection of the woods and fruits of the United States, almost complete.

The collections in Geology and Mineralogy occupy the first floor. These collections are arranged in a series of cases on each side of the building. In one series is a carefully classified collection of minerals and ores. The opposite series of cases contains a large geological collection; some of the specimens here are of the rarest fossil remains of animal and plant life.

ENGINEERING HALL.

This building is situated directly south of Science Hall, and is a large three-story brick building, well lighted and heated. The two upper floors are given up to Chemistry and Pharmacy. The general Inorganic, Organic and Elementary Chemical laboratories are on the third floor, while the second floor is mostly taken up with pharmaceutical laboratories, a well equipped drug store, a lecture room and a general stock room. Each laboratory is provided with ample hood accommodations, and each desk is furnished with water, gas and suction.

The southern portion of the second story of this Hall is used for the

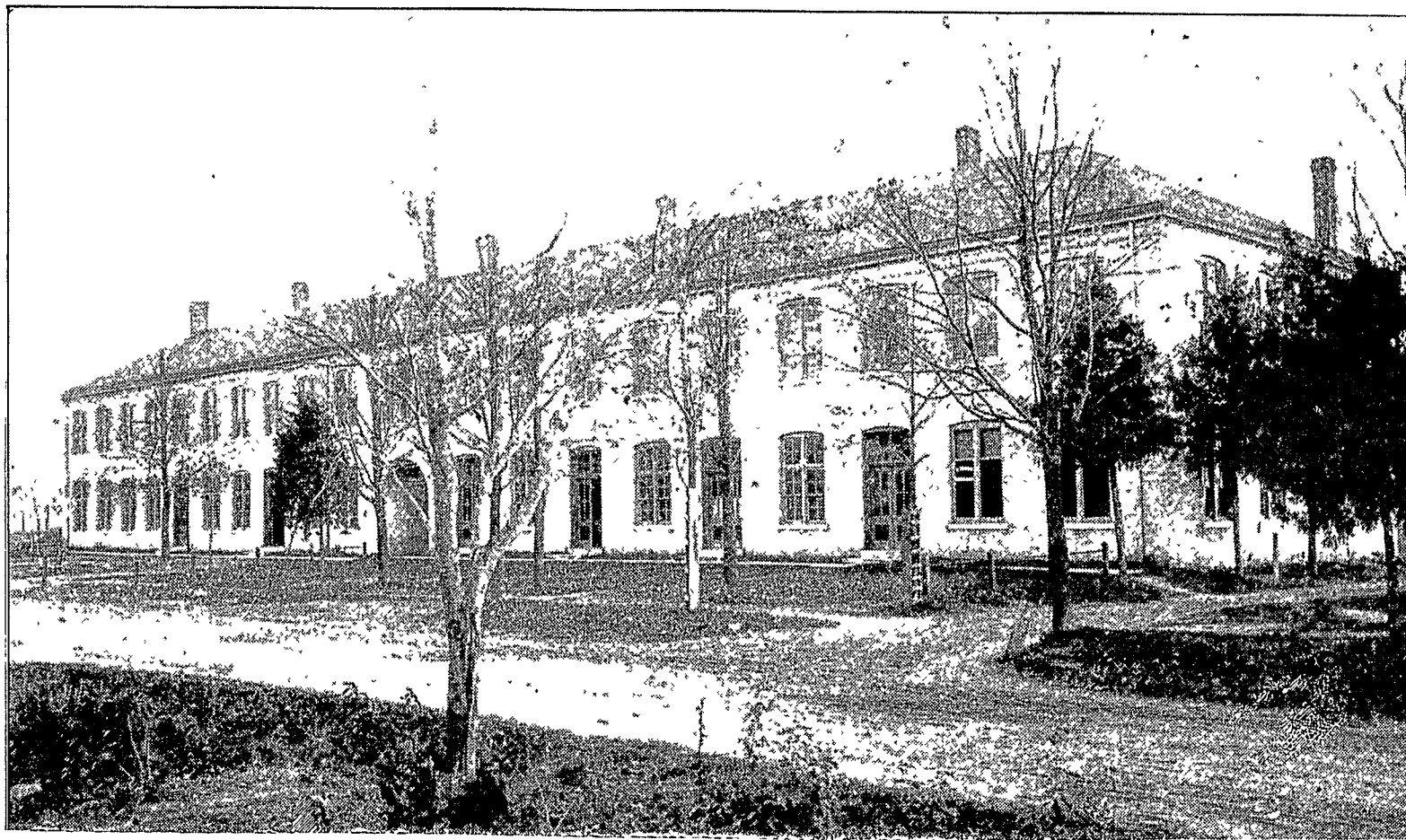
CIVIL ENGINEERING DEPARTMENT.

The equipment for this department is sufficient for all the practice and exercises in the field necessary to illustrate and teach the practical methods of engineering. The instrumental outfit consists of one surveyor's transit, two engineer's transits with levels and vertical circles attached to telescopes, one engineer's wye level, and a plane table with all the attachments, clinometers, chains, tapes, etc.

MECHANICAL ENGINEERING DEPARTMENT.

The wood shop, machine shop and blacksmith shop are on the first floor. The wood shop is supplied with modern work-benches fully equipped with the smaller tools necessary for carpentry, twelve lathes for turning, a jig saw, a revolving planer and a circular saw, the whole forming an adequate equipment for a thorough mastery of joinery, scroll work and pattern making.

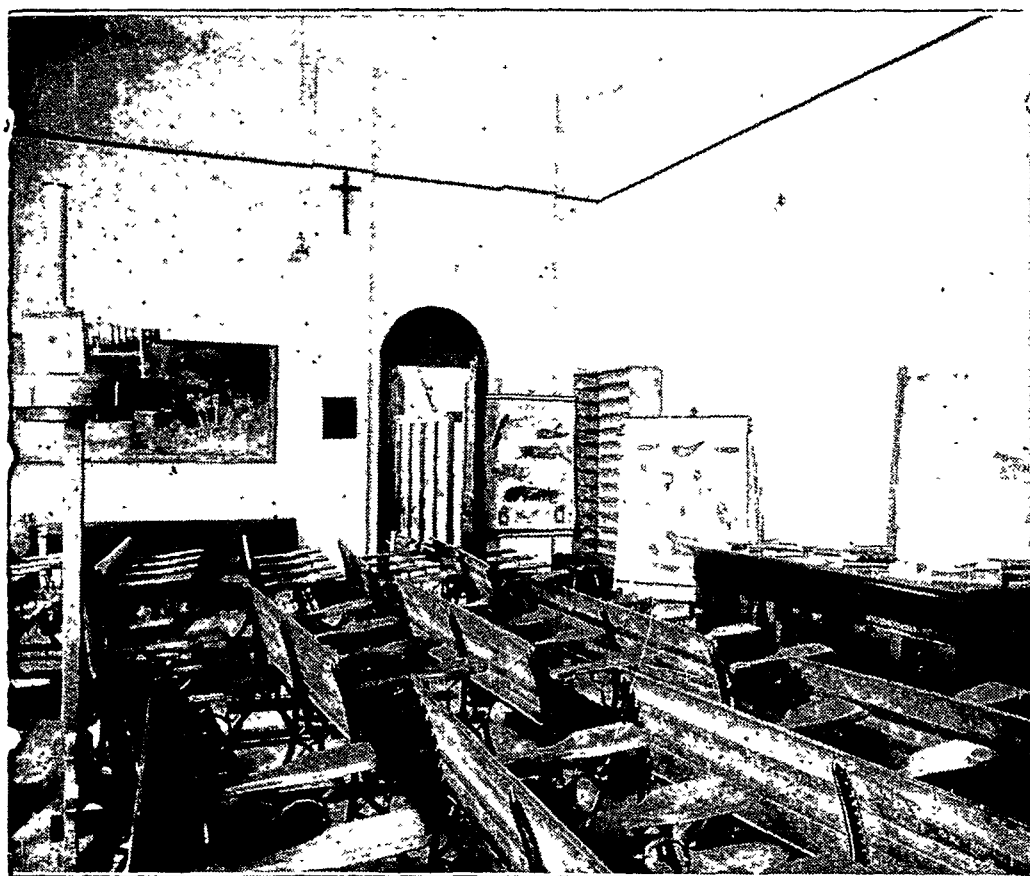
The machine shop contains two horizontal slide valve steam engines which are used for experimental purposes. The power for operating the machine shop is derived from the electric station of the University, two ten-horse power motors being used for this purpose, from which power is transmitted to the various machines by a line of shafting running the entire length of the building. The latest improved lathes have been provided, nine in number, varying from a five inch swing in the smallest to a large engine lathe with sixteen foot bed having a capacity for work twenty-eight inches in diameter. Two drill presses, a large planer, a shaping machine and a Brown and Sharp milling machine complete the outfit, thus making the machine shop a model of its kind. The



LABORATORY OF MECHANICAL ENGINEERING.



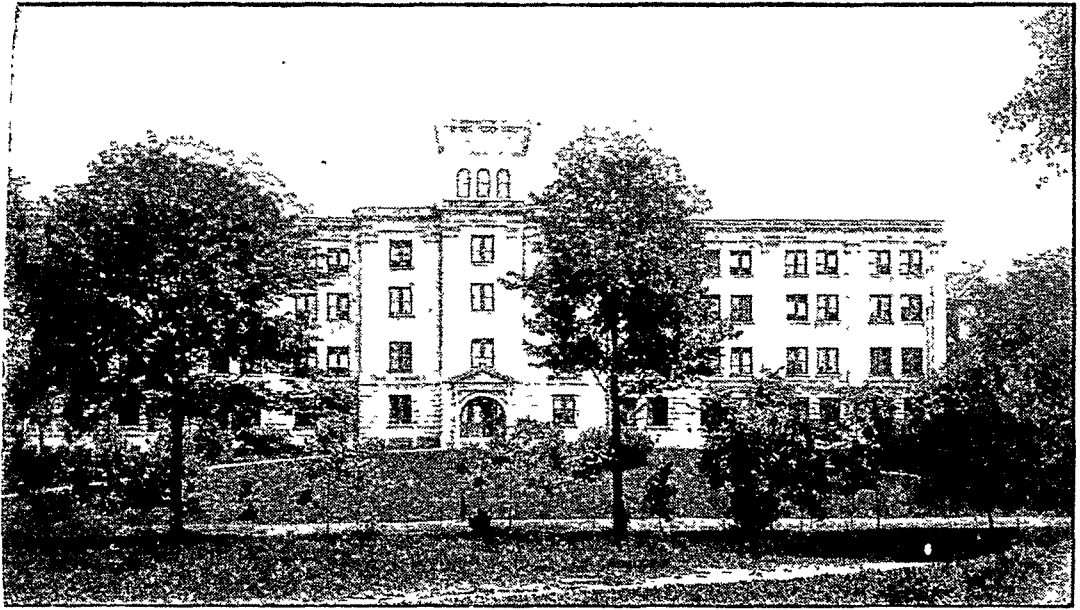
PHYSICAL CABINET.



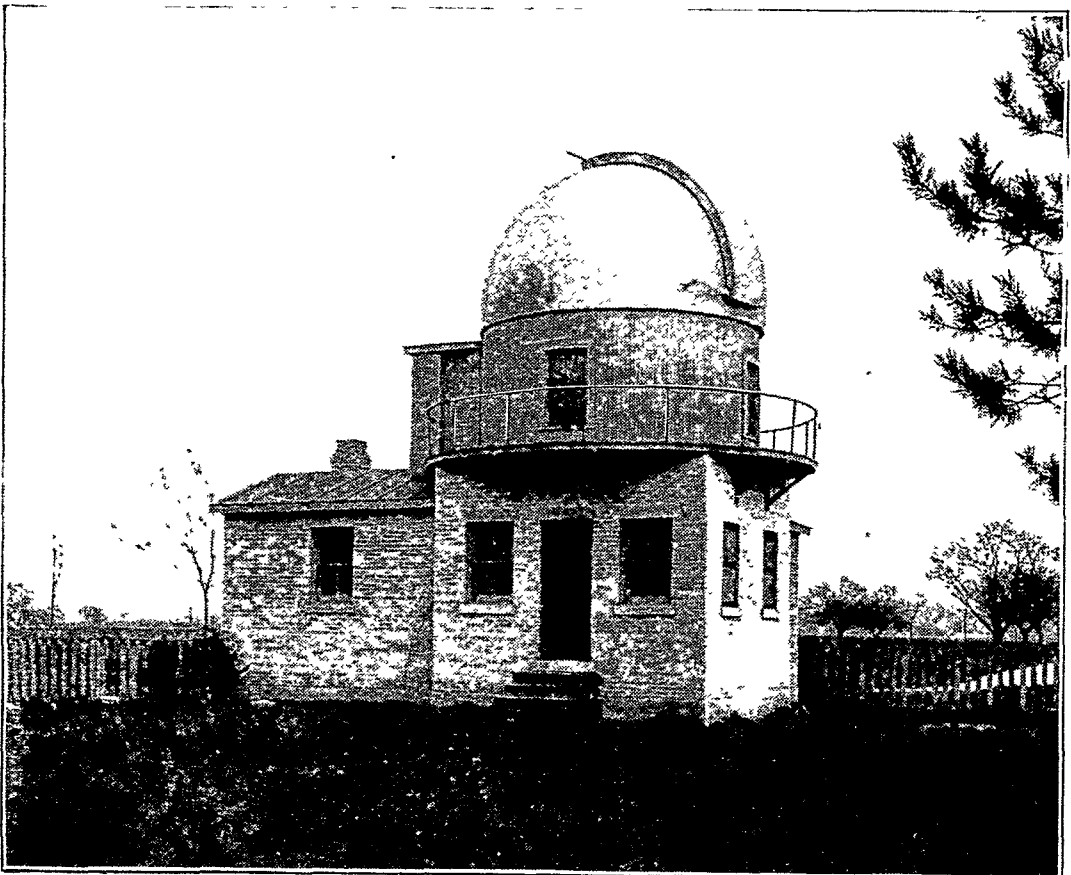
A CLASS-ROOM IN SCIENCE HALL.

blacksmith shop has the usual complement for teaching, forging, annealing, welding and tool making. In the foundry work the student is instructed in the proper disposition of gates and sprues, the mixing of sand, setting up and drawing simple and complicated patterns and core making. This is supplemented with lectures on the proper mixing and heating of cast iron for the various purposes for which it is used.

In addition to the facilities afforded by the shops, the engineering students have access to the steam and power plants of the University which have been recently remodeled and made to compare favorably with the best contemporary practice. The main steam plant contains two batteries of ten horizontal tubular boilers, aggregating 1200 horse power. In connection with the boilers is installed the necessary testing apparatus as follows:—a Worthing hot water meter for measuring the amount of feed water, a feed water thermometer, for getting temperature of generated steam, a throttling calorimeter for ascertaining the quality of steam and an automatic recording pressure gauge giving a continuous record of the boiler pressure. Provision is made for finding the temperature and pressure of the flue gases by means of a pyrometer and draught gauge and for obtaining samples of flue gas for analysis. These, with a Carpenter coal calorimeter for determining the heating value of the fuel, comprise a full and complete equipment for giving the student an intimate knowledge of the practical part of boiler management and testing. A Webster feed water heater and purifier, two compound duplex pumps, two vacuum pumps working on the heating system, two large Worthington fire pumps 16 by 9 by 12 with a capacity of 1500 gals. per minute, with numerous separators, steam traps, automatic reducing valves, etc., complete the apparatus in the main steam plant. A McEwen high



THE COMMUNITY HOUSE.



THE OBSERVATORY.

speed automatic engine, an Armington and Simms engine of similar type and several low speed horizontal engines with planimeters, indicators, reducing wheels, slide rules and other necessary instruments, are used in studying the operation of the steam engine, distribution and economy of steam, regulation, valve setting and heat wastes.

SORIN HALL.

This building is 144 feet in length, with two wings 112 feet in depth. It has a basement and three high stories, and contains 101 private rooms for advanced students. These rooms are furnished, and students of Senior, Junior or Sophomore standing in any of the Collegiate Courses are not required to pay rent. On the first floor there is a chapel, a law lecture room and a law library. The building is lighted with electricity and heated with steam. In the basement are recreation rooms and bath rooms.

CORBY HALL.

Corby Hall is a second residence building. It has three stories and a basement, and it is 240 feet in width. There are 125 private rooms for students, with recreation rooms and a chapel. The building is lighted with electricity and gas and heated with steam. For room-rent and care of the room a fee is charged.

THE OBSERVATORY.

This building is located near the Engineering Hall and is designed for an equatorial telescope and for a transit or meridian circle. The equatorial telescope now in the building is intended for students of Astronomy, and is in use whenever favorable weather permits.

THE INFIRMARY.

This building, 200 feet by 45 feet in ground measurement and three stories in height, contains rooms for

the use of students during illness. The sick are nursed by Sisters of the Holy Cross, and the University physician visits them daily.

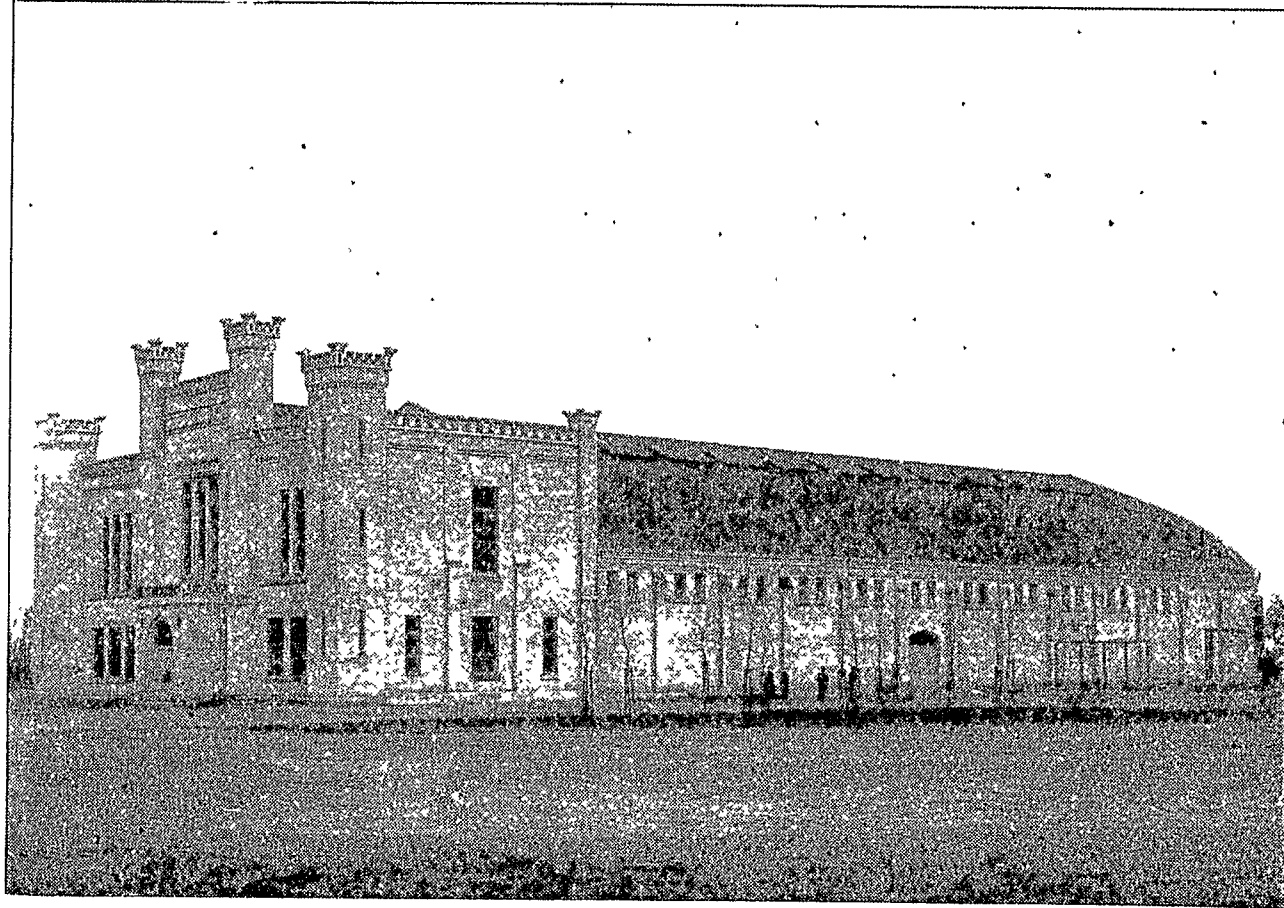
THE GYMNASIUM.

The gymnasium which was burnt down in November, 1900, was replaced by a building 230 by 200 feet in dimensions. The track-hall is now 100 by 180 feet on the ground: it is used for indoor meets, winter baseball practice, basketball and military drill. The gymnastic hall is 100 by 40 feet and is furnished with a full set of new apparatus; below that are the offices, dressing-rooms and showerbaths. Friends of the University and the alumni contributed more than \$3,000 to the fund for re-building.

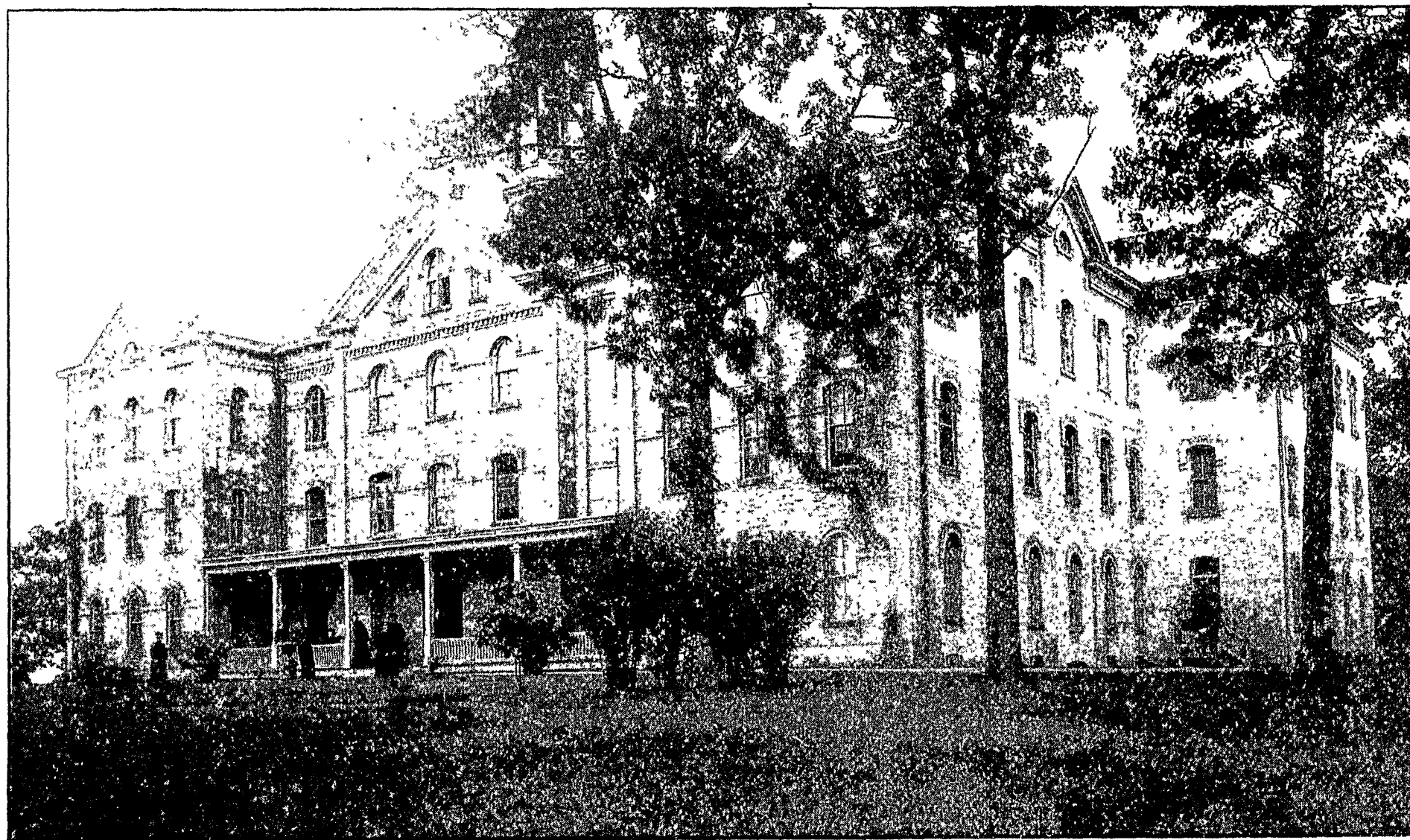
The Cartier Field is an enclosed field for athletic games. There is a permanent grand stand near the baseball diamond and the cinder track, and a portable stand near the football rectangle. The field contains ten acres of ground, and is a gift to the University from Mr. Warren A. Cartier, C. E., of the class of '87.

OTHER BUILDINGS.

There are numerous other large buildings connected with the University; of these the principle are: Saint Joseph's Hall, Holy Cross Hall, the Community House, the Presbytery, and Saint Edward's Hall.



THE UNIVERSITY GYMNASIUM.



HOLY CROSS HALL.

DISCIPLINE.

Official bi-monthly reports of each student's class standing will be sent to parents and guardians.

The Faculty maintains that an education which gives little attention to the development of the moral part of a youth's character is pernicious, and that it is impossible to bring about this development where students are granted absolute relaxation from all Faculty government while outside the class-room. A young man must learn obedience to the law by the actual practice of obedience, not by mere appeals to honor.

Moreover, the quiet and concentration of mind that are needed for collegiate work are not obtained except where discipline exists.

Therefore the following regulations, shown to be salutary by experience, are enforced at the University:

1. No student shall leave the University grounds without permission from the President or the person delegated to represent him.

2. *Leave of absence will not be granted to students during the term time, except in cases of urgent necessity. There is no vacation at Easter.*

3. Students are required to report at the University immediately after arriving at South Bend. This rule is binding not only at the beginning of the scholastic year, but at all other times when leave of absence has been granted. Unnecessary delay in South Bend is looked upon as a serious violation of rule.

4. *Flagrant disobedience to authority, cheating in examinations, the use of intoxicating liquors, immorality, the use of profane and obscene language, and an unauthorized*

absence from the college limits are among the causes for expulsion. In case of suspension or expulsion for such offences, *no fees will be returned.*

5. No branch of study shall be taken up or discontinued without the consent of the Director of Studies.

6. Preparatory students are enrolled in Brownson, Carroll or St. Edward's Hall according to age: boys seventeen years of age or older are placed in Brownson Hall; those over thirteen and under seventeen, in Carroll Hall; and those under thirteen, in St. Edward's Hall.

7. The use of tobacco is forbidden except to those students of Sorin, Corby and Brownson Halls that have received from their parents written permission to use tobacco.

8. Continued violation of regulations in Sorin or Corby Halls leads to forfeiture of rooms.

9. *Although students of all religious denominations are received, the University is nevertheless a strictly Catholic institution, and all students are required to attend divine service in the College Church at stated times.*

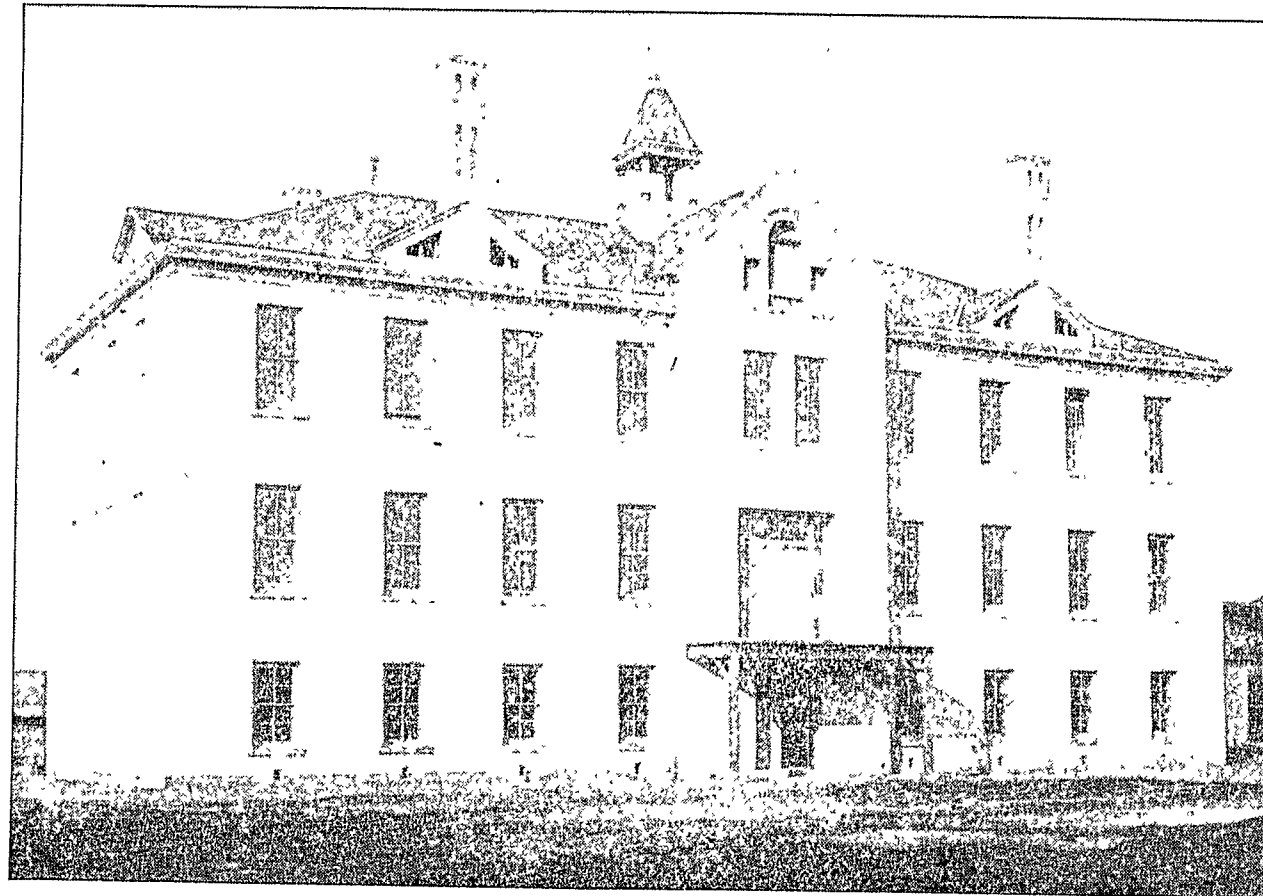
10. The use of intoxicating liquors is strictly prohibited.

11. Undue attention to athletics at the expense of study will not be permitted, but students are expected to take part in outdoor sports and other games.

12. A limited number of athletic contests is permitted with college organizations from without.

13. All athletic associations of the students is strictly forbidden to countenance anything that savors of professionalism.

14. All athletics will be governed by a Faculty Board of Control which will be guided in its rulings by the regulations adopted by the Conference Colleges. The President of the University and members of the Faculty will compose this Board, and reserve the right of a final

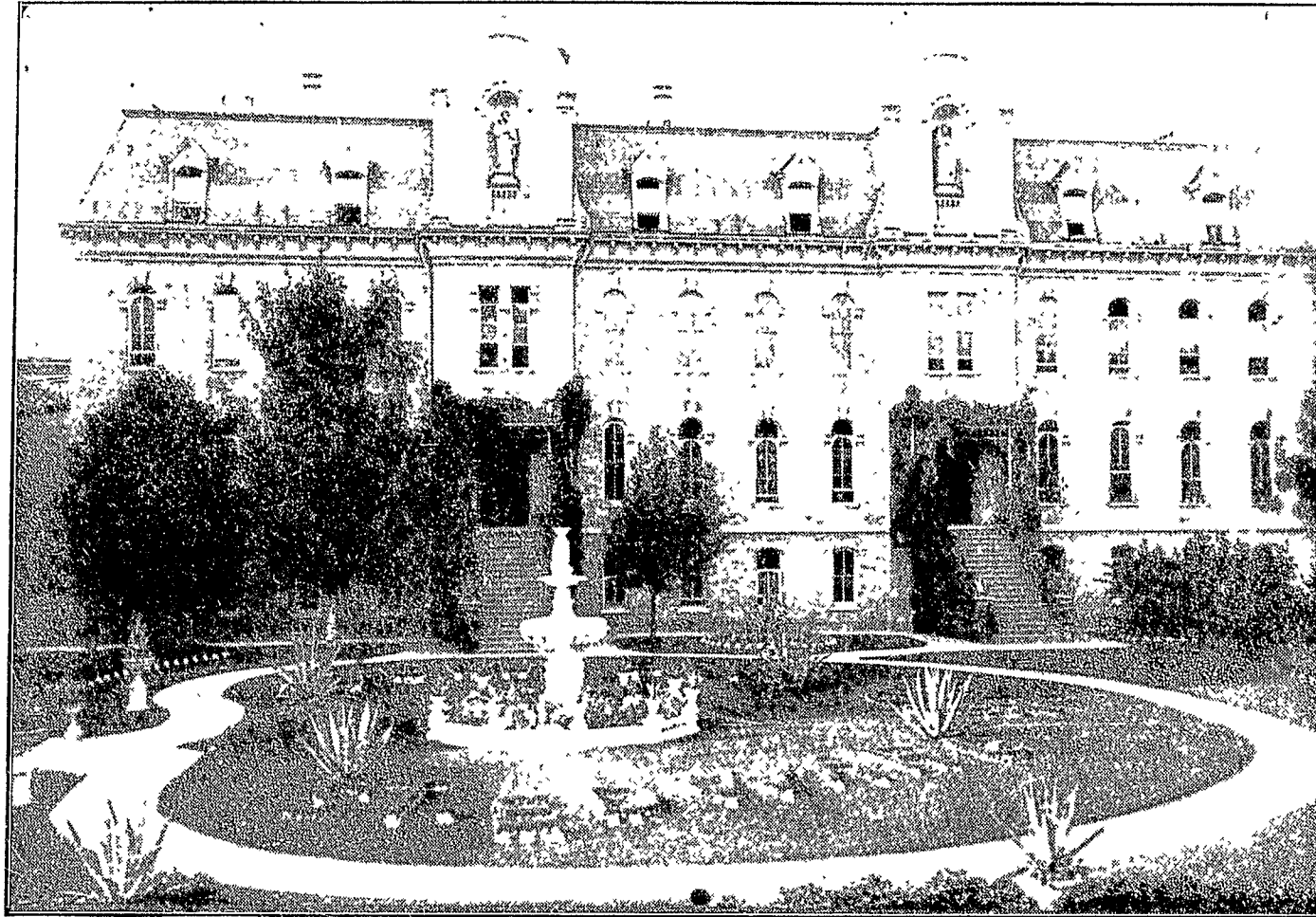


ST. JOSEPH'S HALL.

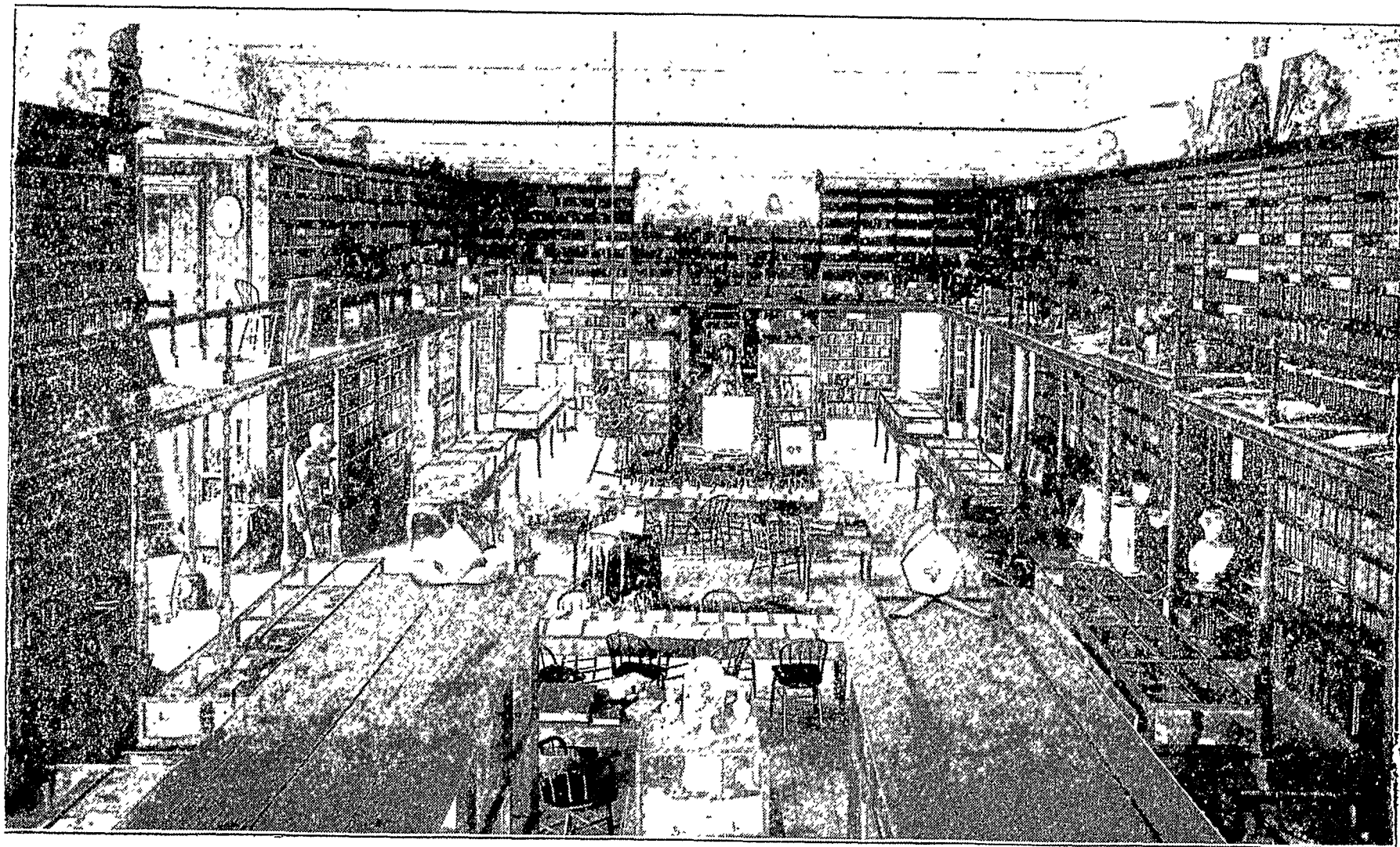
decision on all questions concerning athletics. The Faculty Board will determine the amateur standing of the members of the athletic teams and apportion the finances. By this means indiscreet and unconsidered action of students will be checked.

LECTURES AND CONCERTS.

Each winter, eminent men are invited to lecture before the students. Among those who have addressed the University in the past few years may be noted four Apostolic Delegates: Cardinals Satolli and Martinelli, and Monsignors Falconio and Agius; Archbishops Ireland, Riordan, Keane, Glennon and Christie, and Bishops Spalding, Alerding, McQuaid, O'Gorman and Shanley. There were also such noted European churchmen as the Abbé Felix Klein and the foremost of living English historians, Dom Gasquet, besides men of letters like Marion Crawford, Maurice Francis Egan, Henry Van Dyke, Seumas MacManus, William Butler Yeats, James Jeffrey Roche, Hamilton Wright Mabie and Henry James, and such men of affairs as Senator Taft, ex-Senator Hill, Senator Beveridge, Secretary of Navy Charles Jerome Bonaparte, William P. Breen and Bourke Cockran. Concerts are given frequently by organizations from without.



ST. EDWARD'S HALL.



A CORNER OF THE LIBRARY.

EXPENSES.

Matriculation Fee (payable on first entrance)	\$ 10.00
BOARD, TUITION, (Latin, Greek and Modern Languages included) Lodging, Washing, and Mending of Linens, per Session of nearly Ten Months.....	400.00

PAYABLE IN ADVANCE, as follows:

On Entrance in September:

Matriculation Fee (payable first year only)	\$ 10.00
First Payment on Board and Tuition	250.00
Deposit on Book and Stationery Account	10.00
Special Lecture and Concert Course	3.00

Also, in this First Payment must be included any extra Expense the student may wish to incur, such as charges for Private Room, Special Courses (listed below), and Spending Money.

On January 15:

Balance on Board and Tuition	\$150.00
and any extra expenses the student may have incurred.	

No rebate will be allowed for time absent at the opening of the Sessions, September and January. The charge of \$400.00 covers the tuition fee, which is fixed at \$100.00 per Scholastic Year. The latter sum is accepted as an entirety for tuition during the Scholastic Year, and will not be refunded in whole or in part if the student be dismissed for wilful infraction of the fundamental rules and regulations herein stated and hereby brought to his notice; and so likewise in the event of his leaving and absenting himself from the University at any time or for any cause without proper permission. However, an exception is made if it seems to be expedient for him to go to his home because of severe or protracted illness. *Degrees will not be conferred on any student whose account with the University has not been settled.*

SPECIAL EXPENSES—PAYABLE IN ADVANCE:

For whole Session of nearly Ten Months.

PRIVATE ROOMS—

Sorin Hall: Seniors, Juniors and Sophomores, Free;	
Freshmen	\$50.00
Corby Hall	80.00

While the students, as a rule, are advised to confine themselves to the regular studies of the course they have entered, any of the following may be taken at the rate mentioned per Scholastic Year. The charges will be *pro rata* for any portion of the year.

Instrumental Music—Lessons on Piano and use of Instrument... ..\$60.00	Use of each Instrument..\$ 5.00
Use of Piano for Advanced Students..... 30.00	Vocal Culture..... 40.00
Telegraphy..... 25.00	Elocution — Special Course..... 10.00
Typewriting—Full Course (20 Lessons) 5.00	Use of Library..... 5.00
Phonography..... 25.00	“Scholastic”—College Paper..... 1.50
Practical Mechanics..... 30.00	Artistic Drawing.... . 25.00
Lessons on Violin, Guitar, Flute, Cornet, Clarinet or Mandolin..... 30.00	Applied Electricity..... 40.00
	Special Lecture and Concert Course..... 3.00
	Gymnastics—Full Course (20 Lessons)..... 5.00

Laboratory Fees Listed under Regular Courses.

GRADUATION FEE.

For all Courses leading to a Degree, \$10.00; Commercial Course, \$5.00.

REMARKS.

The Entrance Fees, cost of Books, Music and Laboratory Fees, etc., are required with first payment.

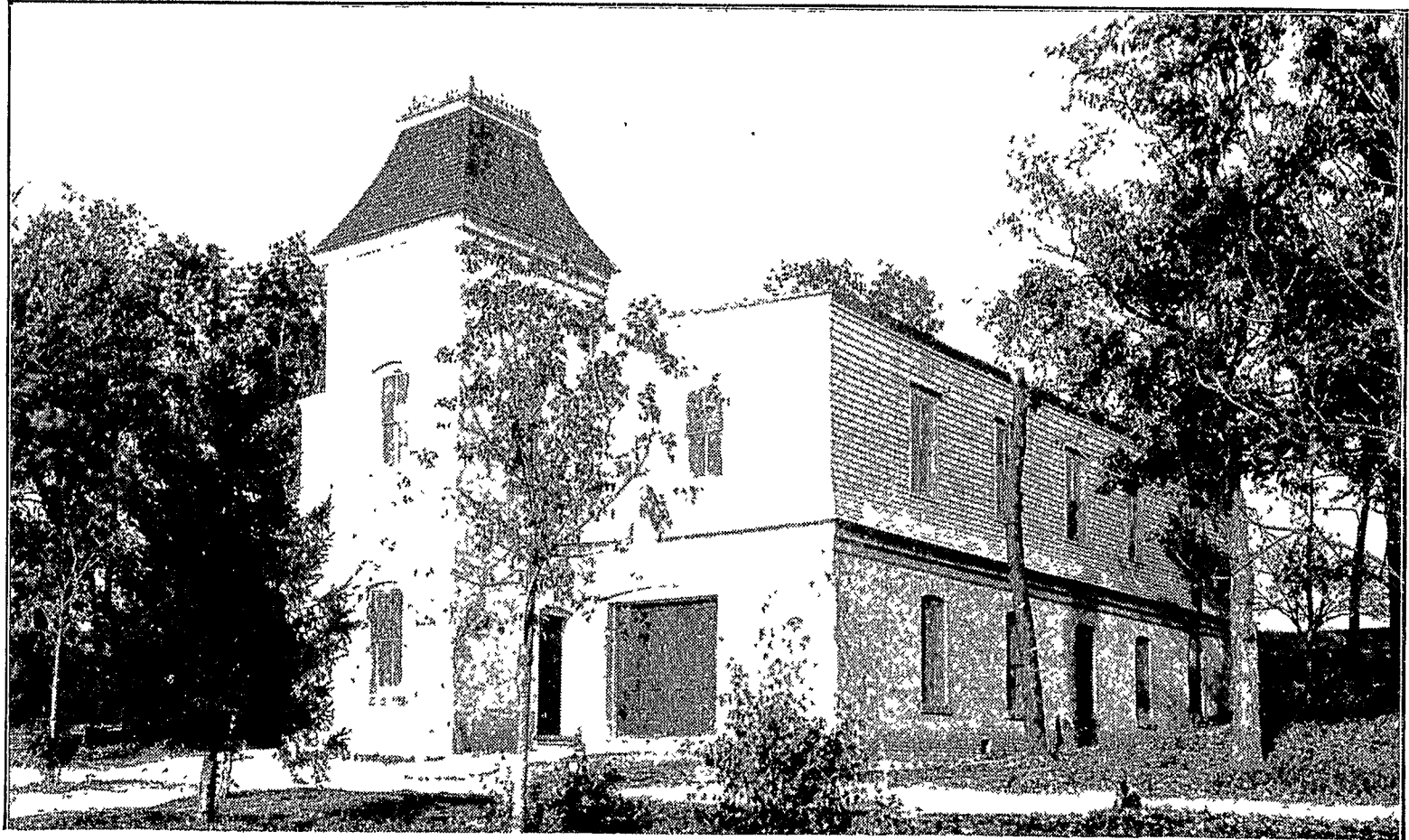
Remittance should be made by draft, post office money order or express, payable to the order of the President.

Checks on local banks are not desirable, and exchange will be charged in all cases.

Term bills and other accounts are subject to sight draft if not paid within ten days after they have been rendered.

Sorin, Corby, Brownson and Carroll Halls are closed during the months of July and August. Students wishing to spend their Summer Vacation under the care of the College Authorities can be accomodated at San José Park, Lawton, Michigan.

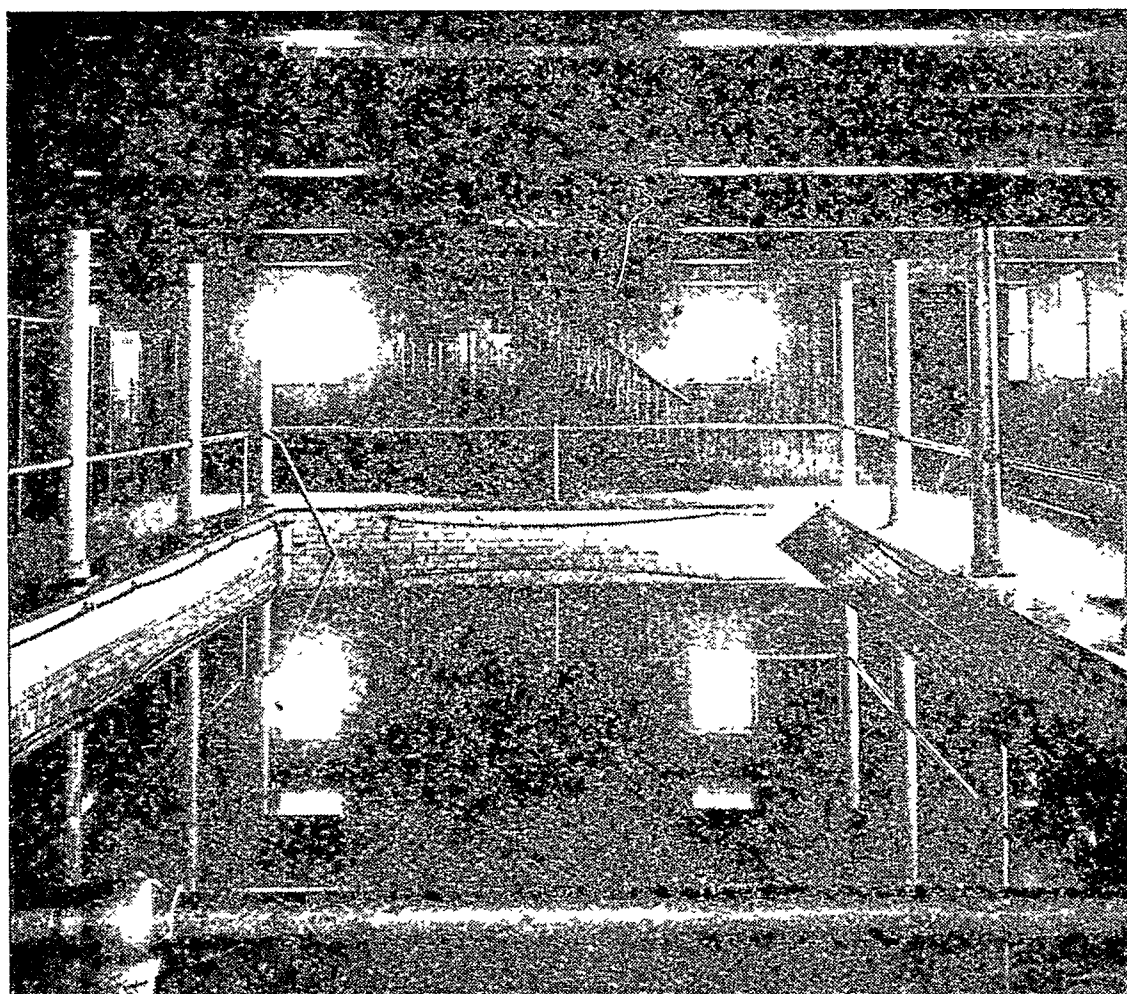
In consequence of benefactions lately received by the University, a limited number of students aspiring to the ecclesiastical state can be received at special rates. Fuller information can be obtained by addressing the President.



THE BOAT-HOUSE.



OUTSIDE VIEW OF NATATORIUM



INSIDE VIEW OF NATATORIUM.

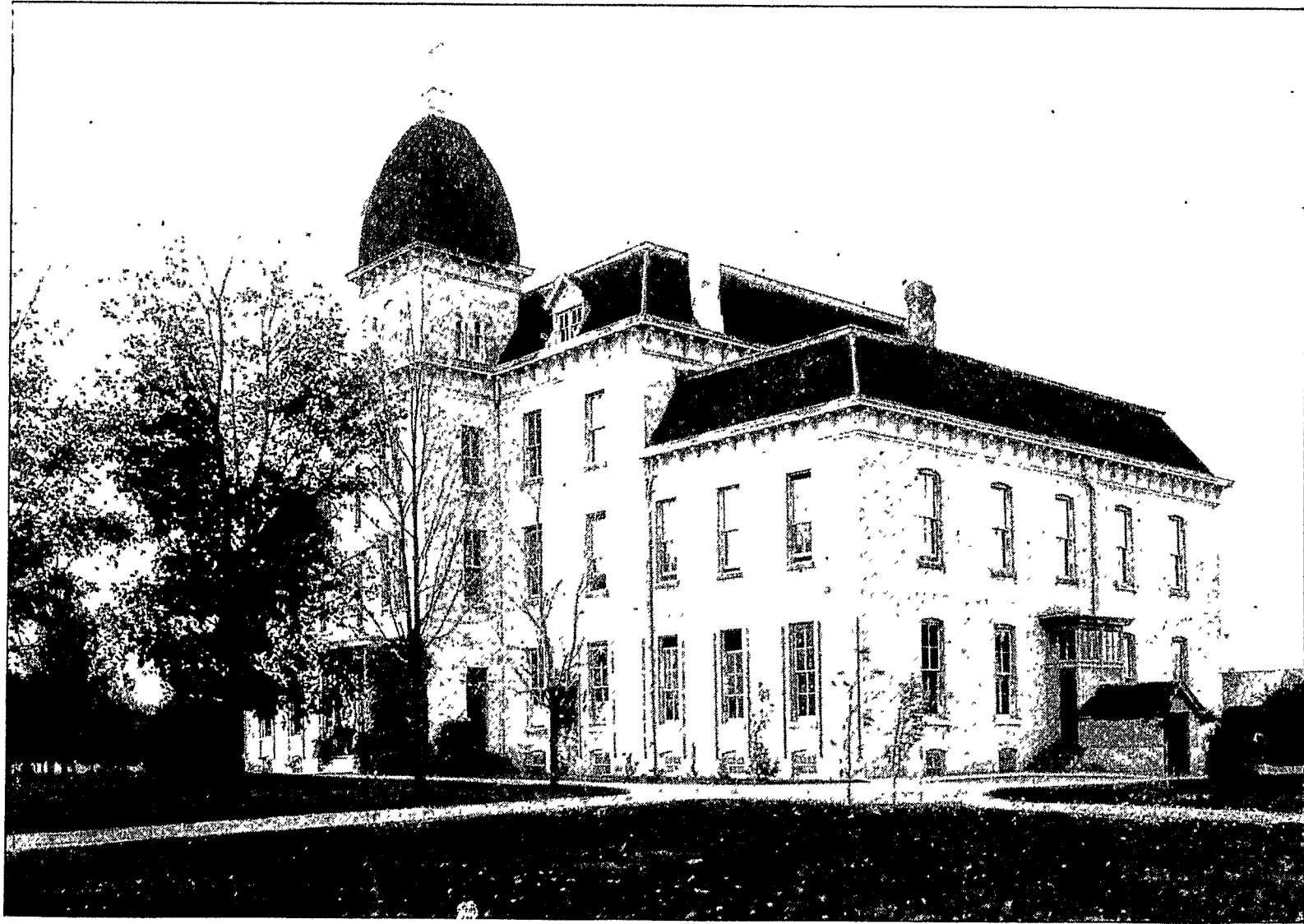
UNDERGRADUATE COURSES.

To be given during the Year 1905-6.

The recent establishment of a four years' Course in Architecture at Notre Dame University, following the opening of the School of Pharmacy, and the revision and expansion of the entire system of studies several years ago, offer an opportunity of acquainting the alumni and friends of the institution, as well as the Catholic public generally, with what has been and is being done at Notre Dame toward meeting the increasing demands of the age upon the college, and keeping pace with the progress of American institutions of higher education generally. The brief account of the collegiate system at Notre Dame which follows is supplemented by an exhibit, in tabular form, of the principal undergraduate curricula, as offered for the coming scholastic year 1905-6.

THE ELECTIVE SYSTEM AT NOTRE DAME.

The entire system of studies at Notre Dame is based upon the principle of election of studies. The student, once he is admitted as a Freshman, is free to select his own course of studies, conformably to his natural liking, the career in life he may have in view, or the determinate intellectual bent developed during the secondary school years. The curriculum which is made up of the traditional "Classics" holds, of course, the place of honor; but it is frankly recognized that there are other studies which, while scarcely less efficient for cultural purposes than the "Classics," lie closer to the predominant activities and utilities of modern life. Hence, side by side with the "Classics," leading to the traditional A. B.



ST. JOSEPH'S NOVITIATE.

degree, there are other cultural curricula, open to the student's choice and leading to equivalent degrees.

This has been the main principle of the collegiate system at Notre Dame almost from the very beginning. More than forty years ago, the principle of election of studies was accepted as the guiding rule in shaping the academic growth of the institution. This is shown by the fact that at that early date a curriculum of General Science studies was set up alongside the "Classics" as of equivalent value for the work of college education. Since that time, one curriculum after another has been added, as the college has grown and the demand for a wider range of election has made itself felt from the student body, until to-day, it may be confidently asserted, no other Catholic college or university in the country offers so rich and varied a field of choice to the undergraduate student.

THE STUDENT ASSISTED IN SELECTING HIS STUDIES.

While the student is free to elect the course of studies he is to follow, he has not, however, unlimited freedom in this respect. The principle of election is necessarily conditioned, in its practical operation, by the canons of sound educational experience. "It is a fact of general experience," says President Wilson, of Princeton, "that the undergraduate student is not likely to make a systematic choice of studies unless aided by more mature judgments than his own, and upon the assumption that the knowledge of men more mature than himself is a safer guide to a consistent and serviceable choice than his own untested tastes and preferences." The elective system at Notre Dame is a system of "assisted election." There is a set programme of studies which, while affording ample range of choice, is sufficiently fixed to shield

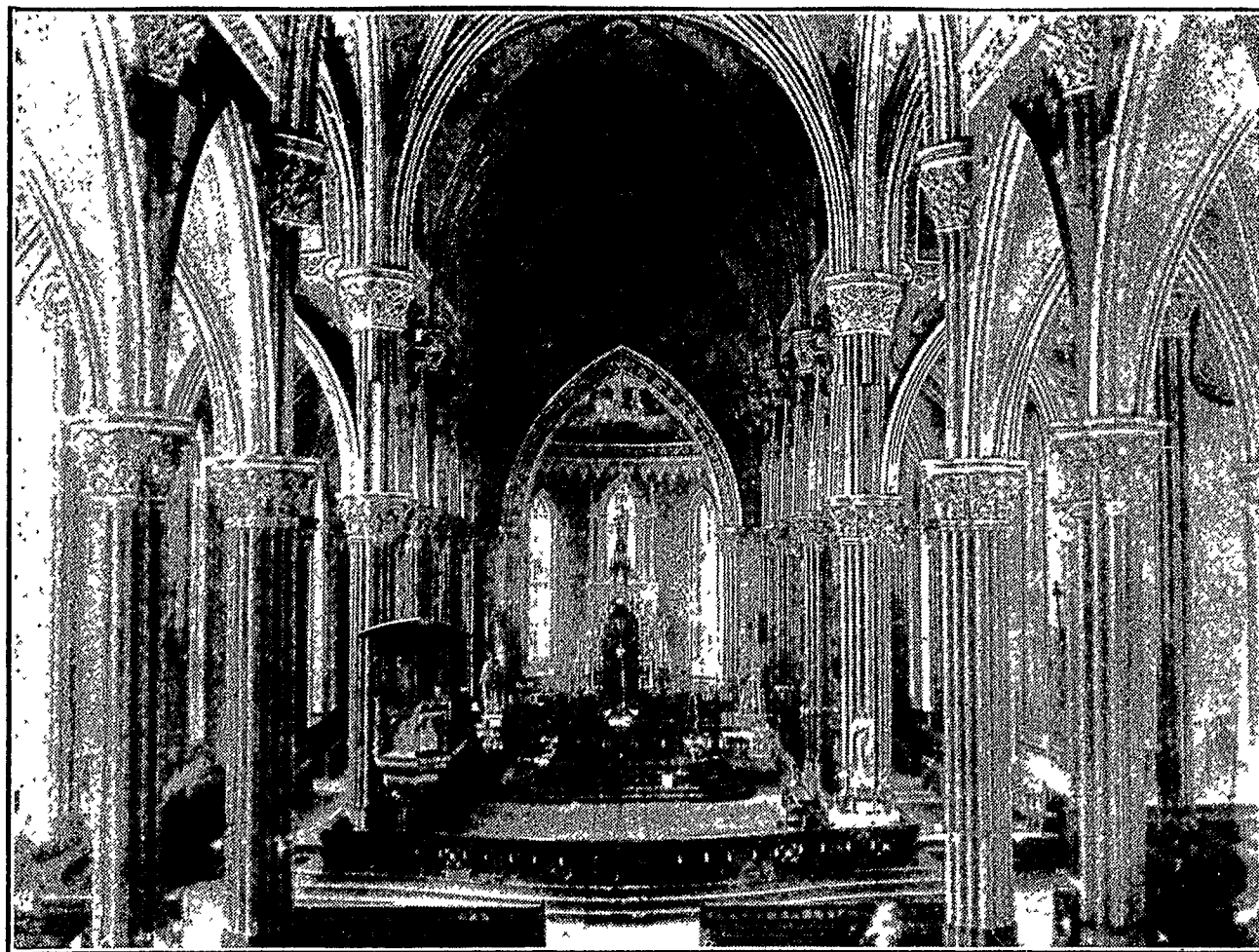
the student from the inconsiderate impulses of his own unripened judgment.

THE GROUP SYSTEM.

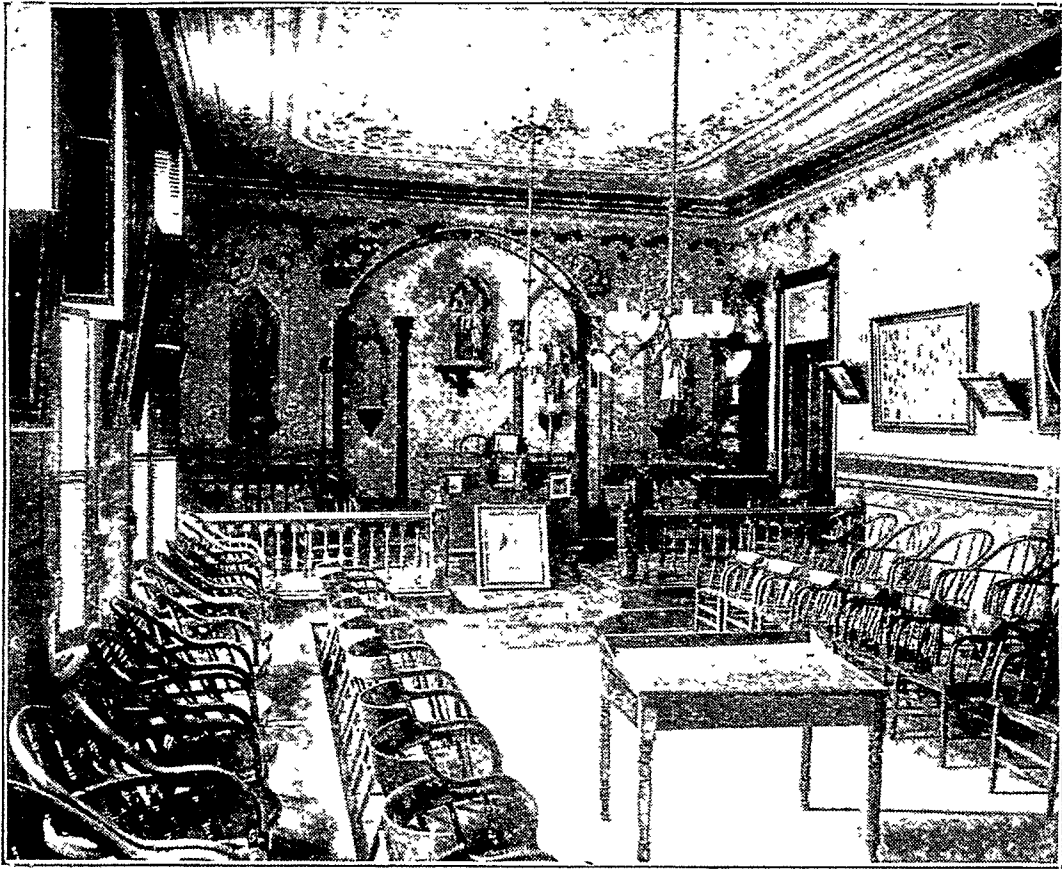
The programme of studies at Notre Dame comprises a number of parallel groupes of studies leading to equivalent baccalaureate degrees. Broadly speaking, the groups divide themselves naturally into two general classes: the cultural, or those which aim simply at wide-ranging mental power and development; and the technical, or those which make a high degree of practical as well as theoretical skill, along the line of some strictly scientific profession, an essential aim. To the first class—the “cultural”—belong five groups of studies; the Classics, English, History and Economics, General Science, and Biology. To the second class—the “technical”—belong five groups of studies also; Pharmacy, Civil Engineering, Mechanical Engineering, Electrical Engineering, and Architecture, with, in addition, a short two-year, technical course in Applied Electricity and in Mechanical Engineering.

To get a clearer view of the principle at work, let us now take the first of these two general divisions, and consider the five groups which we have called the “cultural” a little more closely. Each group, as a rule, is made up of three kinds of studies; studies common to all the groups, studies proper to each group, and studies that are elective. Thus, in the five groups we are considering, there are three studies which are common to all the groups,—Christian Doctrine, Philosophy, and English. In other words, these three subjects are regarded as indispensably necessary in the work of liberal education at Notre Dame, and they are the only subjects which are so regarded.

Besides these three common subjects, there are studies



INTERIOR OF UNIVERSITY CHAPEL,



A LECTURE ROOM.



THE STUDIO

proper to the several groups. Each group has some studies which are peculiar to itself; and are determined by the special quality of mental power it is aimed to develop. In the Classical Group, for instance, the studies proper are, Latin, Greek and History. In the General Science Group, the studies proper are the natural and physical sciences, with mathematics. In the English Group, they are higher English, French and German.

Again, there is more or less opportunity of election allowed within a Group. Thus, in the Classical Group, one elective, of five hours a week, is allowed in each year of the course, except the Senior year. In the General Science Group, the work of the Junior year is largely elective, and the work of the Senior year almost entirely so. The student may, at any time, with the permission of the faculty, substitute one study for another in a Group.

By these means, it is believed, there is provided for in the programme of studies sufficient flexibility to meet the most varied demands in the way of cultural training that may be legitimately made upon the college, and, at the same time, to meet and give due recognition to the work of the secondary schools in preparing pupils for college.

ADMISSION OF HIGH SCHOOL GRADUATES.

It is one of the great advantages of the elective system that it enables the college to effect a connection between its programme of studies and that of any good high school or secondary school, however much the school may be influenced, in the making up of its curriculum, by local or particular academic needs, requirements, or ideals. It brings the secondary school close to the college, and makes it easy for the boy to pass from one to the other, as easy, almost, as if the school were an integral

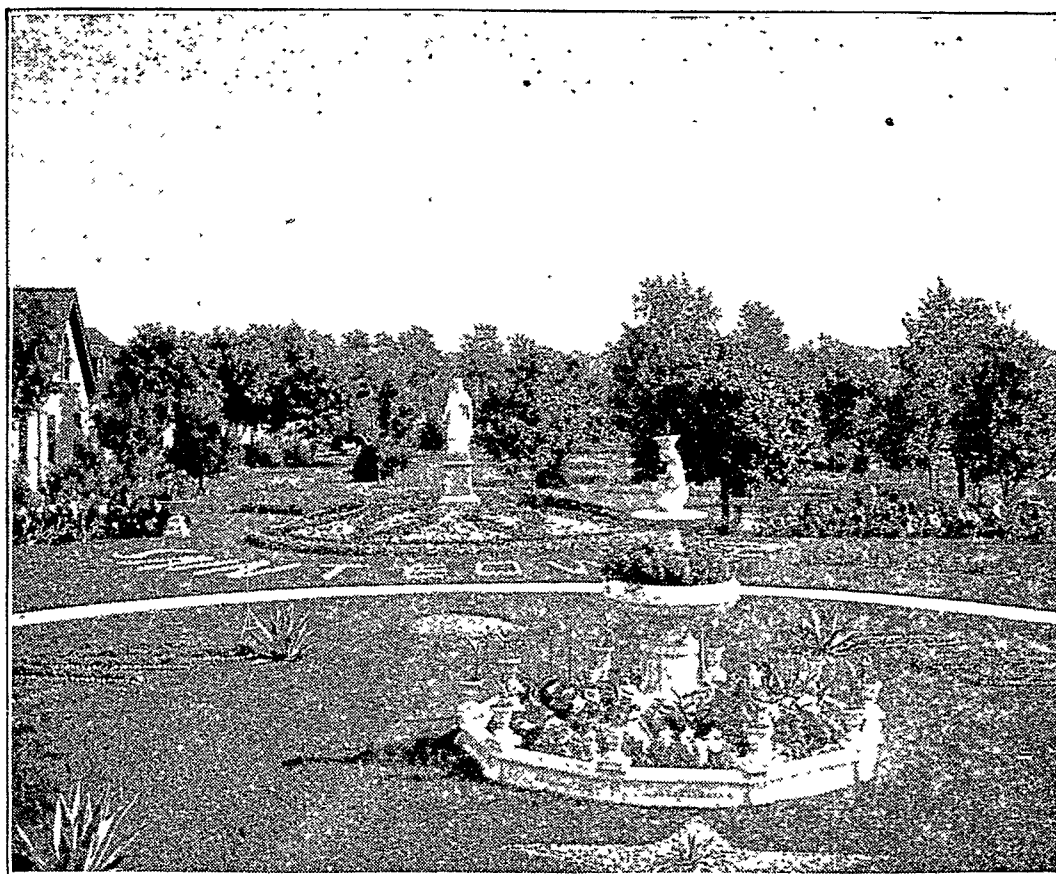
part of the college. The college, in effect, places all good secondary schools on the same plane as its own preparatory school, and is thus enabled to draw from them all without any academic difficulty.

The graduates of any public or private high school of good standing, therefore, will not find it difficult to gain admission to the University of Notre Dame. They will receive full credit for any work done in the school. In some cases, certificates of graduation will be accepted in lieu of the University's Entrance Examination. Graduate students of high schools that are fully accredited to the State Universities, will be admitted without examination to the Freshman year of any Group of studies along the line of their high school course. The wide range of election allowed at Notre Dame makes it easy for the graduate of a good school, whatever the studies he may have followed, to qualify for Freshman standing in some one of the many Groups of studies open to his choice.

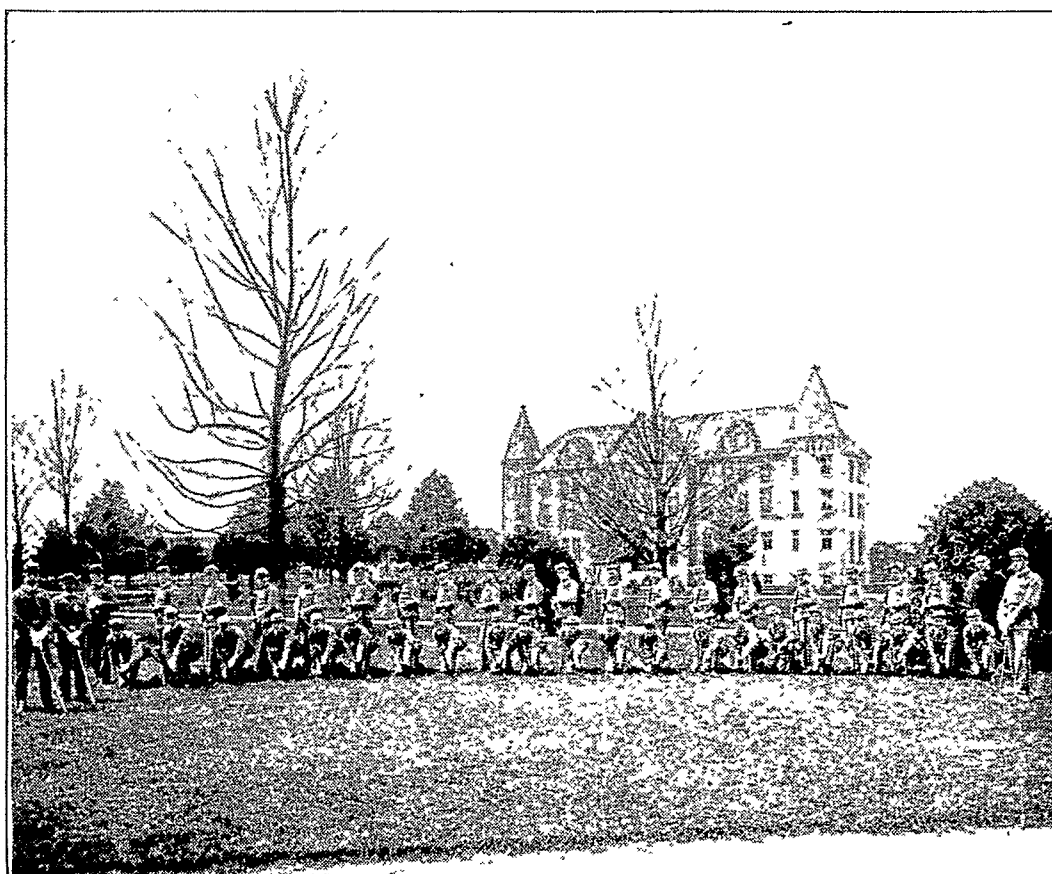
ENTRANCE REQUIREMENTS.

The entrance requirements vary somewhat according to the character of the curriculum that the student is to follow. Thus, Greek is required from classical students only. Students who are to take the course in English or the course in History and Economics, may offer in place of Greek a corresponding amount of French and German. For admission to the Engineering courses, more mathematics is required than admission to the other curricula.

In general, it may be said that the entrance requirements of Notre Dame do not differ substantially from those of other large colleges and universities in the United States. These requirements are fairly enough represented by the Regent's Examinations in New York, or the examinations which have been given for several



A BIT OF³ PARK.



MILITARY COMPANIES.

years by the College Entrance Examination Board, the certificates of either of which will be accepted as the equivalent of the Entrance requirements of the University.

TABULAR DESCRIPTION OF CURRICULA.

In the following pages, the Groups of Studies which have been described above, are exhibited in tabular form, in such a way as to show the degree to which each one leads, the studies of each year and term, and the number of class-hours devoted, a week, to each subject. The character and relative advancement of the courses given in the respective terms is also indicated by the Roman numerals prefixed to these courses in the University catalogue; and alongside of the Roman numerals, in the tabular statement, there is given the catalogue page on which a full and detailed description of the course may be had. It is to be observed that the page reference is to the General Catalogue, and not to this Pictorial Number. With the help of this tabular statement, therefore, it will be very easy, should further information be desired, to follow the description of the courses in the University catalogue.

The Classical Course.

(DEGREE: A. B.)

FRESHMAN YEAR.

SUBJECTS: FIRST TERM.	Hrs. a Week	SEE FOR DESCRIPTION		SUBJECTS: SECOND TERM.	Hrs. a Week	SEE FOR DESCRIPTION	
		Page	Course			Page	Course
Latin, - - -	5	39	I.	Latin, - - -	5	39	II.
Greek, - - -	4	35	I.	Greek, - - -	4	35	II.
English, - - -	4	41	I.	English, - - -	4	41	I.
History, - - -	4	45	I.	History, - - -	4	45	I.
Elocution, - - -	2	44	VIII.	Elocution, - - -	2	44	VIII.
Elective, - - -	5			Elective, - - -	5		

SOPHOMORE YEAR.

Latin, - - -	5	39	III.	Latin, - - -	5	39	IV.
Greek, - - -	4	35	III.	Greek, - - -	4	35	IV.
English, - - -	4	42	II.	English, - - -	4	42	II.
History, - - -	3	45	II.	History, - - -	3	45	II.
Elocution, - - -	2	44	VIII.	Elocution, - - -	2	44	VIII.
Philosophy, - - -	5	31	I.	Philosophy, - - -	5	31	I.

JUNIOR YEAR.

Latin, - - -	5	40	V.	Latin, - - -	5	40	VI.
Greek, - - -	5	35	V.	Greek, - - -	5	36	VI.
English, - - -	4	42	III.	English, - - -	4	42	III.
Philosophy, - - -	5	31	II.	Philosophy, - - -	5	31	II.
Elocution, - - -	2	44	VIII.	Elocution, - - -	2	44	VIII.
Economics, - - -	4	46	I.	Elective, - - -	5		

SENIOR YEAR.

Latin, - - -	5	40	VII.	Latin, - - -	5	41	VIII.
Greek, - - -	5	37	VII.	Greek, - - -	5	38	VIII.
English, - - -	4	42	IV.	English, - - -	4	42	IV.
Philosophy, - - -	5	32	III.	Philosophy, - - -	5	33	IV.
Elocution, - - -	2	44	VIII.	Elocution, - - -	2	44	VIII.

The English Course.

(DEGREE: LITT. B.)

FRESHMAN YEAR.

SUBJECTS: FIRST TERM.	Hrs. a Week	SEE FOR DESCRIPTION		SUBJECTS: SECOND TERM.	Hrs. a Week	SEE FOR DESCRIPTION	
		Page	Course			Page	Course
English, - -	4	41	I.	English, - -	4	41	I.
Latin, - - -	5	39	I.	Latin, - - -	5	39	II.
French or - -	3	48	II.	French or - -	3	48	II.
German, - -	3	51	II.	German, - -	3	51	II.
History, - -	4	45	I.	History, - -	4	45	I.
Elocution, -	2	44	VIII.	Elocution, -	2	44	VIII.
Elective, - -	5			Elective, - -	5		

SOPHOMORE YEAR.

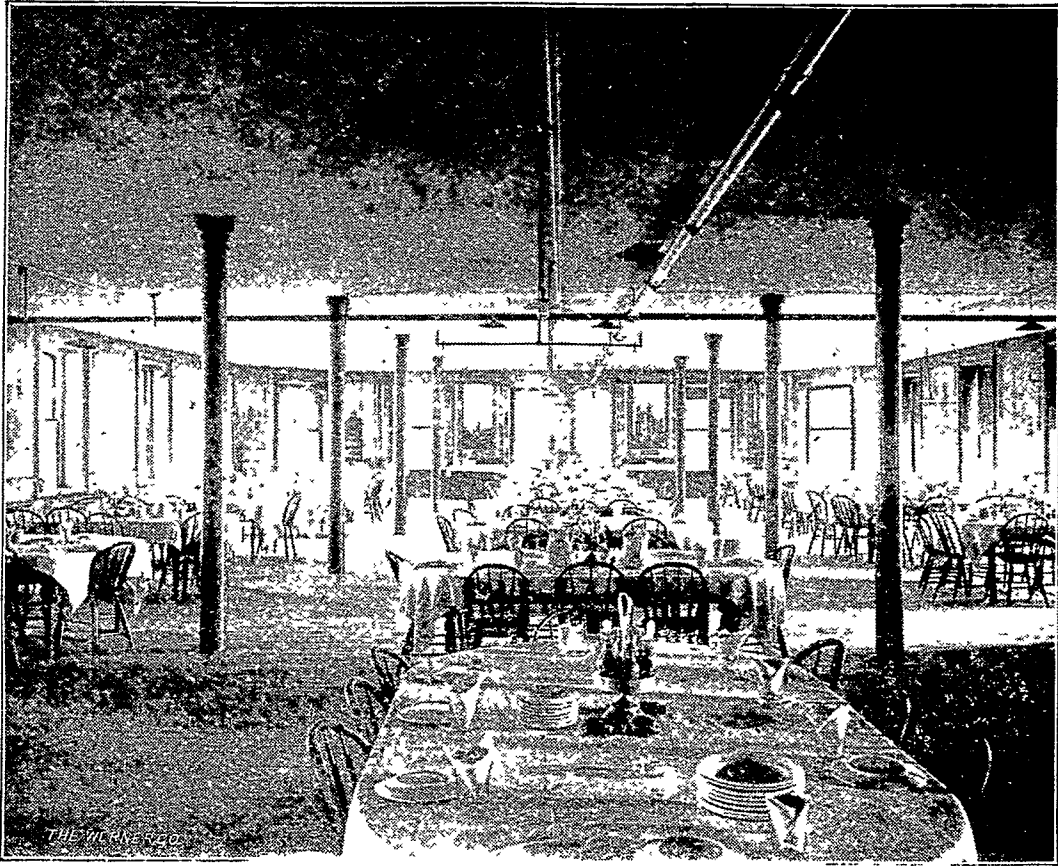
English, - -	4	42	II.	English, - -	4	42	II.
Latin, - - -	5	39	III.	Latin, - - -	5	39	IV.
French or - -	2	49	III.	French or - -	2	49	III.
German, - -	2	51	III.	German, - -	2	51	III.
History, - -	3	45	II.	History, - -	3	45	II.
Elocution, -	2	44	VIII.	Elocution, -	2	44	VIII.
Philosophy, -	5	31	I.	Philosophy, -	5	31	I.

JUNIOR YEAR.

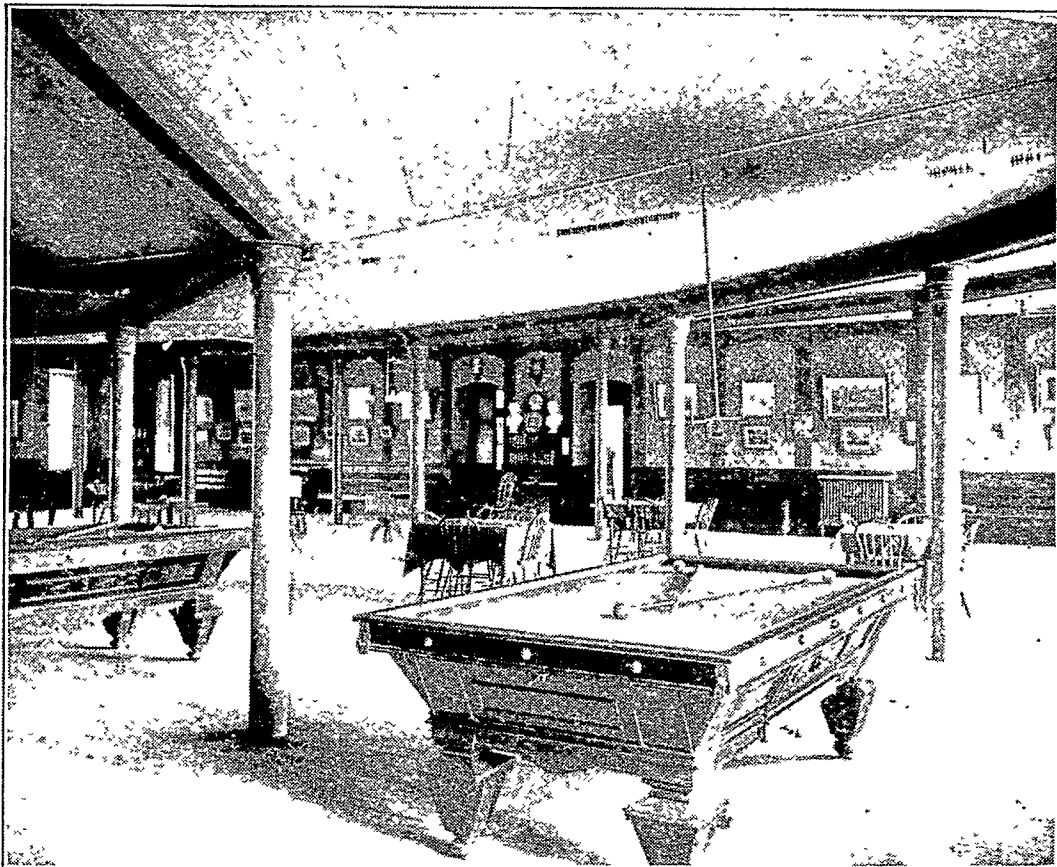
English, - -	4	42	III.	English, - -	4	42	III.
Latin, - - -	5	40	V.	Latin, - - -	5	40	VI.
Philosophy, -	5	31	II.	Philosophy, -	5	31	II.
Elocution, -	2	44	VIII.	Elocution, -	2	44	VIII.
History, - -	5	45	III.	History, - -	5	45	III.
Elective - -	3			Elective, - -	3		

SENIOR YEAR.

English, - -	4	42	IV.	English, - -	4	42	IV.
Latin, - - -	5	40	VII.	Latin, - - -	5	41	VIII.
Philosophy, -	5	32	III.	Philosophy, -	5	33	IV.
Economics, -	4	46	I.	History, - -	5	46	IV. b.
Elocution, -	2	44	VIII.	Elocution, -	2	44	VIII.



ONE OF THE DINING ROOMS.



THE BILLIARD ROOM.

The Course in History and Economy.

(DEGREE: PH. B.)

FRESHMAN YEAR.

SUBJECTS: FIRST TERM.	Hrs. a Week	SEE FOR DESCRIPTION		SUBJECTS: SECOND TERM.	Hrs. a Week	SEE FOR DESCRIPTION	
		Page	Course			Page	Course
History, - -	6	45	I.	History - -	6	45	I.
English, - -	4	41	I.	English, - -	4	41	I.
French or - -	3	48	II.	French or - -	3	48	II.
German, - -	3	51	II.	German, - -	3	51	II.
Spanish, - -	4	49	I.	Spanish, - -	4	49	I.
Polit'l Science,	4	46	I.	History, - -	4	46	IV. a
Elocution, - -	2	44	VIII.	Elocution, - -	2	44	VIII.

SOPHOMORE YEAR.

History, - -	5	45	II. a	History - -	5	45	II. a
Polit'l Science,	3	47	II.	Polit'l Science,	3	47	II.
Philosophy, -	5	31	I.	Philosophy, -	5	31	I.
English, - -	4	42	II.	English, - -	4	42	II.
German or - -	2	51	III.	German or - -	2	51	III.
French, - -	2	49	III.	French, - - -	2	48	II.
Elocution - -	2	44	VIII.	Elocution - -	2	44	VIII.

JUNIOR YEAR.

History, - -	9	45	II.bIII.	History - -	9	45	II.bIII
Polit'l Science,	4	47	III.	Polit'l Science,	4	47	IV.
Philosophy, -	5	31	II.	Philosophy, -	5	31	II.
English - -	4	42	III.	English, - -	4	42	III.
Elocution, - -	2	44	VIII.	Elocution - -	2	44	VIII.

SENIOR YEAR.

History, - -	3	46	IV. b	History, - -	3	46	IV. b
Polit'l Science,	6	47	V. VI.	Polit'l Science,	6	47	VI. VII.
			VII.				VIII.
Philosophy, -	5	32	III.	Philosophy, -	5	33	IV.
English, - -	4	42	IV.	English, - -	4	42	IV.
Elocution, - -	2	44	VIII.	Elocution, -	2	44	VIII.

The Course in General Science.

(DEGREE: B. S.)

FRESHMAN YEAR.

SUBJECTS: FIRST TERM.	Hrs. a Week	SEE FOR DESCRIPTION		SUBJECTS: SECOND TERM.	Hrs. a Week	SEE FOR DESCRIPTION	
		Page	Course			Page	Course
Zoology, - .	5	85	I.	Zoology, - -	5	85	I.
Chemistry, - -	4	79	III.	Chemistry, - -	4	79	III.
Algebra, - -	5	51	I.	Anal. Geom., -	5	52	II.
French, - - -	5	48	I.	French, - - -	5	48	I.
Drawing - - -	2	76	I.	Drawing, - - -	4	76	II.
Physiology, -	5	89	I.	Physiology, -	5	89	I.

SOPHOMORE YEAR.

Botany, - - -	5	84	I.	Botany, - - -	6	84	I., II.
Chemistry, - -	5	79	IV.	Physics, - - -	5	83	II., III.
Physics, - - -	5	83	II., III.	Calculus, - - -	5	52	IV.
Calculus, - - -	5	52	III.	Drawing, - - -	2	76	II.
Drawing, - - -	2	76	II.	Elective, - - -	5		

JUNIOR YEAR.

Geology, - - -	2	90	I.	Geology, - - -	5	91	III.
Astronomy, - -	3	60	I.	Astronomy, - -	3	60	I.
English, - - -	4	41	I.	English, - - -	4	41	I.
Elective, - - -	5			Elective, - - -	5		
Philosophy, -	5	31	I.	Philosophy, -	5	31	I.

SENIOR YEAR.

Philosophy, -	5	31	II.	Philosophy, -	5	31	II.
Three Electives in Science, -	9-15			Three Electives in Science, -	9-15		
French or Ger. Scientific Readings, -	1			French or Ger. Scientific Readings, -	1		

The Course in Chemistry.

(DEGREE: B. S.)

FRESHMAN YEAR.

SUBJECTS: FIRST TERM.	Hrs. a Week	SEE FOR DESCRIPTION		SUBJECTS: SECOND TERM.	Hrs. a Week	SEE FOR DESCRIPTION	
		Page	Course			Page	Course
Chemistry, -	5	79	III.	Chemistry, -	5	79	III.
Algebra, - -	5	51	I.	Anal. Geom. -	5	52	II.
French, - -	5	48	I.	French, - -	5	48	I.
Physics, - -	5	83	II., III.	Physics, - -	5	83	II., III.

SOPHOMORE YEAR.

Chemistry, -	5	79	IV.	Chemistry, -	5	80	V.
Calculus, - -	5	52	III.	Calculus, - -	5	52	IV.
Mineralogy, -	3	90	I.	Geology, - -	5	91	III.
Chemistry, -	5	80	VI.	Chemistry, -	5	81	IX.
Gas Analysis, -	3	81	VIII.				

JUNIOR YEAR.

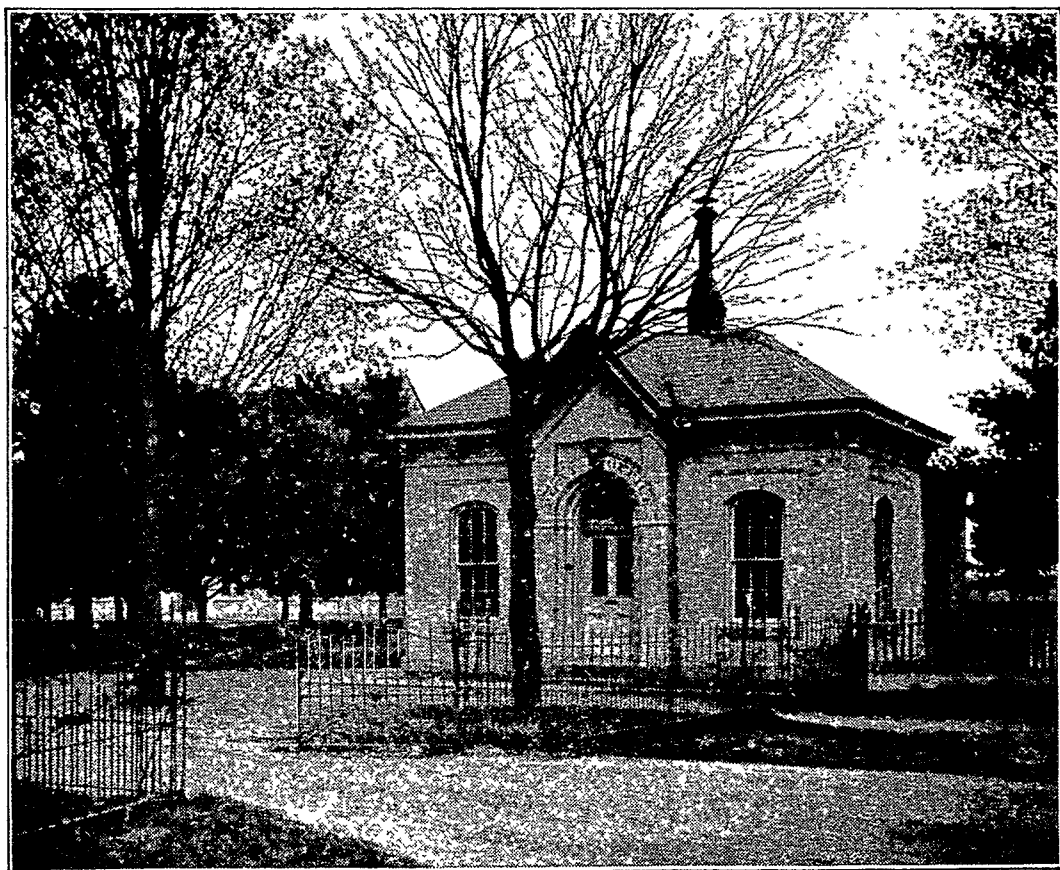
Chemistry, -	5	82	XIII	Chemistry, -	7	81 82	XI. XIII
Chemistry Elective, -	5			Chemistry Elective, -	5		
Elective, - -	5			Assaying, - -	3	91	II.
English, - -	5	41	I.	English, - -	5	41	I.

SENIOR YEAR.

Philosophy, -	5	31	II.	Philosophy, -	5	31	II.
History of Chemistry, -	3	82	XII.	Chemistry Elective, -	5		
Elective, - -	5			Scientific Readings in German and French, - -	2		
Scientific Readings in German and French, - -	2			Thesis, - - -			



UNIVERSITY PRINTING OFFICE.



THE POST OFFICE.

The Course in Biology.

(DEGREE: B .S.)

FRESHMAN YEAR.

SUBJECTS: FIRST TERM.	Hrs. a Week	SEE FOR DESCRIPTION		SUBJECTS: SECOND TERM.	Hrs. a Week	SEE FOR DESCRIPTION	
		Page	Course			Page	Course
Zoology, - -	5	85	I.	Zoology - -	5	85	I.
Chemistry, - -	4	79	III.	Chemistry, - -	4	79	III.
Microscopy, - -	3	87	I.	English, - -	4	41	I.
English, - -	4	41	I.	French, - -	5	48	I.
French, - -	5	48	I.	Microscopy, - -	2	88	II.
Drawing, - -	2	77	VIII.	Drawing, - -	2	77	VIII.

SOPHOMORE YEAR.

Physiology, -	5	89	I.	Physiology, -	5	89	I.
Botany, - -	5	84	I.	Botany, - - -	6	84	I. II.
Gen. Biology, -	6	87	I., II.	Gen. Biology, -	6	87	I. II.
Chemistry, - -	5	79	IV.	Chemistry, - -	5	80	V.
Drawing - - -	2	77	IX.	Drawing, - - -	2	77	IX.

JUNIOR YEAR.

Anatomy, - -	3	88	III.	Anatomy, - -	3	88	III.
Bacteriology, -	6	90	I.	Botany, - - -	8	84	III.
Geology, - - -	2	90	I.	Geology, - - -	5	91	III.
Botany, - - -	8	84	III.	Philosophy, - -	5	31	I.
Philosophy, - -	5	31	I.	Chemistry, - -	5	80	VI.

SENIOR YEAR.

Anatomy, - -	7	88	II. III.	Anatomy, - -	3	88	III.
Physiology, - -	5	89	II. III.	Physiology, - -	5	89	III.
Zoology, - - -	7	85	II.	Zoology, - - -	10	85-86	III.
Thesis, - - -				Thesis, - - -			IV., V.

The Courses in Pharmacy.

(DEGREES: Ph. G., Ph. C.)

FIRST YEAR.

SUBJECTS: FIRST TERM.	Hrs. a Week	SEE FOR DESCRIPTION		SUBJECTS: SECOND TERM.	Hrs. a Week	SEE FOR DESCRIPTION	
		Page	Course			Page	Course
Pharmacy, - -	3	91	I.	Pharmacy, -	6	91	I., II.
Arithmetic, -	5	93	IX.	Physics, - -	5	172	F.
Botany, - - -	5	84	I.	Chemistry, - -	4	81	X.
Microscopy, -	3	87	I.	Botany, - - -	5	84	I.
Chemistry, -	5	78	I.	Materia Medica	2	92 93	VIII. (1, 2.)

SECOND YEAR.

Pharmacy, - -	8	92	III. IV.	Pharmacy, -	10	92	IV. V.,
Chemistry, - -	5	79	IV.				VI.
Materia Medica	3	92	VIII. (1, 3.)	Chemistry, -	5	80	V.
				Materia Medica	2	93	VIII. (2, 3.)
Bacteriology, -	3	90	I.	Physiology, -	5	89	I.

THIRD YEAR.

Pharmacy, -	5	92	VI.	Pharmacy, - -	5	92	VII.
Chemistry - -	6	80	VI.	Chemistry, - -	5	80	VI.
Geology, - - -	2	90	I.	Toxicology and			
Thesis, - - -	2			Urinary Analy's	5	80	VII.
Elective, - -	5			Thesis, - - -	2		
				Elective, - - -	5		



A FAVORITE SHRINE.

The Course in Civil Engineering.

(DEGRÉE: C. E.)

FRESHMAN YEAR.

SUBJECTS: FIRST TERM.	Hrs. a Week	SEE FOR DESCRIPTION		SUBJECTS: SECOND TERM.	Hrs. a Week	SEE FOR DESCRIPTION	
		Page	Course			Page	Course
Algebra, - -	5	51	I.	Anal. Geom. -	5	52	II.
English, - -	5	41	I.	Surveying, - -	5	54	II.III.
French, - -	5	48	I.	English, - -	5	41	I.
Chemistry, -	3	78	II.	French, - -	5	48	I.
Drawing, - -	3	76	I.	Chemistry, -	3	78	II.

SOPHOMORE YEAR.

Calculus, - -	5	52	III.	Calculus, - -	5	52	IV.
Des. Geometry,	3	54 76	I. III.	Dif. Equations,	5	53	V.
R. R. Surveying	5	55 56	VI. VII.	Des. Geometry,	3	54 76	I. III.
Physics, - -	5	83	II. III.	Adv. Surveying,	5	55	IV., V.
Drawing, - -	3	76	II. III.	Physics, - -	5	83	II. III.
				Drawing, - -	3	76 77	III. V.

JUNIOR YEAR.

Analytic Mechanics, -	5	56	VIII.	Mechanics of Materials, -	5	56	IX.
Geodesy, - -	4	60	XVI.	Astronomy, -	3	60	I.
English, - -	4	42	II.	English, - -	4	42	II.
Geology, - -	4	90	I.	Geology, - -	4	91	III.
Drawing, - -	2	77	VI.	Drawing, - -	3	77	VII.
Stereotomy, -	1	59	XIV.				

SENIOR YEAR.

Engineering, -	5	58	XII.	Engineering, -	5	58	XII.
Drawing, - -	3	77	VII.	Hydromechan.,	3	59	XV.
Bridges, Roofs,	5	57	X.	Graph. Stat.,	5	57	XII.
Sanitary Eng.,	2	58	XIII.	Sanitary Eng.,	2	58	XIII.
Hydromechan,	3	59	XV.	Steam Boilers,	3	62	IV.
				Thesis Work,			

The Course in Mechanical Engineering.

(DEGREE: M. E.)

FRESHMAN YEAR.

SUBJECTS: FIRST TERM.	Hrs. a Week	SEE FOR DESCRIPTION		SUBJECTS: SECOND TERM.	Hrs. a Week	SEE FOR DESCRIPTION	
		Page	Course			Page	Course
Algebra, - -	5	51	I.	Analyt. Geom.,	5	52	II.
French, - -	5	48	I.	French, - -	5	48	I.
Drawing, - -	3	76	I.	Drawing, - -	3	76	II.
Chemistry, -	3	78	II.	Chemistry, -	3	78	II.
Shopwork, -	3	65	XIV.a	Shopwork, -	3	65	XIV.b

SOPHOMORE YEAR.

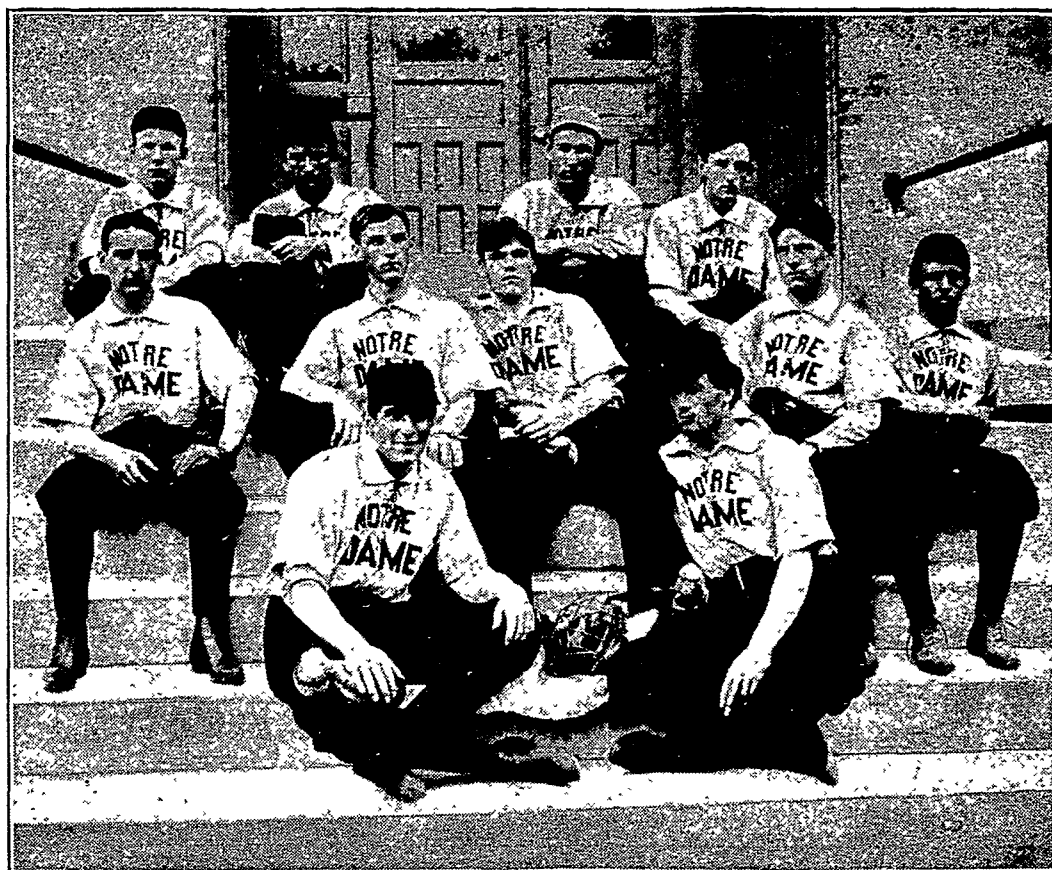
Calculus, - -	5	52	III.	Calculus, - -	5	52	IV.
Des. Geometry,	3	54 76	I. III	Des. Geometry,	3	54 76	I. III.
Drawing, - -	3	76	III.	Drawing, - -	3	76	III.
Chemistry, -	5	79	IV.	Chemistry, -	5	80	V.
Physics, - -	5	83	II. III.	Physics, - -	5	83	II. III.
Shopwork, -	3	65	XIV.c	Shopwork, -	3	66	XIV.d

JUNIOR YEAR.

Anal. Mechanics	5	56	VIII.	Mech's of Mat.,	5	56	IX.
Kinematics, -	5	62	V.	Machine Design	3	63	VI.
English, - -	5	41	I.	Valve Gears, -	2	63	VII.
Drawing, - -	3	76	IV.	English, - -	5	41	I.
Physics, - -	3	83	IV.	Drawing, - -	3	76	IV.
Shopwork, -	3	66	XIV.e	Shopwork, -	3	66	XIV.f

SENIOR YEAR.

Materials of Engineering,	2	61	II.	Steam Engine Design, - -	5	62	III.
Thermodynam,	5	61	I.	Steam Boilers,	3	62	IV.
Steam Engine Design, - -	5	62	III.	Thesis, - - -	12	64	IX.
Mechani'l Lab.,	3	63	VIII.				
Shopwork, -	3	66	XIV.f				



'VARSITY BASE' BALL TEAM.



CARROLL HALL FOOT BALL TEAM

The Two-Year Course in Mechanical Engineering.

FIRST YEAR.

SUBJECTS:	Hrs. a Week	SEE FOR DESCRIPTION		SUBJECTS:	Hrs. a Week	SEE FOR DESCRIPTION	
		Page	Course			Page	Course
Algebra, - -	5	168	C.	Mathematics, -	5	169	F & G.
Geometry, - -	5	169	E.	Trigonometry, -	5	170	H.
Drawing, - -	3	76	I.	Drawing, - -	3	76	II.
Shopwork, - -	3	65	XIV.a	Shopwork, - -	3	65	XIV.a
Physics, - -	5	83	I.	Chemistry, - -	5	78	I.
Gas Engines, -	5	64	XI.	Vapor Engines, -	5	64	XI.

SECOND YEAR.

Motor Design,	5	65	XII.	Motor Design,	5	65	XII.
Shopwork, - -	6	65	XIV.g	Shopwork, - -	6	65	XIV.g
Laboratory, -	10	65	XIII.	Laboratory, -	10	65	XIII.

The Course in Electrical Engineering.

DEGREE: M. E. in E. E.

FRESHMAN YEAR.

SUBJECTS: FIRST TERM.	Hrs. a Week	SEE FOR DESCRIPTION		SUBJECTS: SECOND TERM.	Hrs. a Week	SEE FOR DESCRIPTION	
		Page	Course			Page	Course
Algebra, - -	5	51	I.	Analyt. Geom.	5	52	II.
French, - - -	5	48	I.	French, - -	5	48	I.
Drawing, - -	4	76	I.	Drawing, - -	4	76	II.
Chemistry - -	3	78	II.	Chemistry, - -	3	78	II.
Shopwork, - -	3	65	XIV.a	Shopwork, - -	3	65	XIV.b

SOPHOMORE YEAR.

Calculus, - -	5	52	III.	Calculus, - -	5	52	IV.
Des. Geometry,	3	54 76	I. III.	Des. Geometry,	3	54 76	I. III.
Chemistry, - -	3	79	IV.	Physical Prob.,	2	83	III.
Physics, - -	3	83	II.	Physics, - -	3	83	II.
Shopwork, - -	3	65	XIV.c	Shopwork, - -	3	66	XIV.d
Physical Prob.,	2	83	III.	Drawing, - -	2	76	III.

JUNIOR YEAR.

Analytical				Mech's of Mat.	5	56	IX.
Mechanics,	5	56	VIII.	Machine Design	5	63	VI.VII.
Kinematics, -	5	62	V.	English, - -	5	41	I.
English, - -	5	41	I.	Physics, - -	3	83	IV.
Physics, - -	3	80	IV.	Shopwork, - -	3	66	XIV.f
Shopwork, - -	3	66	XIV.e				

SENIOR YEAR.

Dynamo				Dynamo			
Machinery,	5	67	III.	Machinery,	5	67	III.
Thermodynam,	5	61	I.	Electrical Lab.,	5	68	IV.
Electrical Lab.,	5	68	IV.	Designing, - -	3	68	V.
Designing, - -	3	68	V.	Thesis, - - -			
Thesis, - - -				Hydraulics, -	3	61	I.



A BICYCLE SQUAD.

The Short Course in Applied Electricity.

FIRST YEAR.

SUBJECTS: FIRST TERM.	Hrs. a Week	SEE FOR DESCRIPTION		SUBJECTS: SECOND TERM.	Hrs. a Week	SEE FOR DESCRIPTION	
		Page	Course			Page	Course
Algebra, - -	5	168	C.	Geometry, - -	5	169	D.
Drawing, - -	3	76	I.	Drawing, - -	3	76	II.
Shopwork, - -	3	65	XIV.a	Shopwork, - -	3	65	XIV.b
Physics, - -	5	83	I.	Physics, - -	5	83	I.
Applied Electricity, -	5	66	I.	Applied Electricity, -	5	66	I.

SECOND YEAR.

Trigonometry,	5	170	H.	Engines and			
Drawing, - -	3	68	V.	Boilers,	3	64	X.
Shopwork, - -	3	65	XIV.c	Drawing, - -	3	68	V.
Dynamo				Shopwork, - -	3	66	XIV.d
Machinery, -	5	67	III.	Dynamo			
Applied				Machinery,	5	67	III.
Electricity, -	5	67	II.	Applied			
				Electricity,	5	67	II.

The Course in Architecture.

(DEGREE: Bachelor of Science in Architecture.)

FRESHMAN YEAR.

SUBJECTS: FIRST TERM.	Hrs. a Week	SEE FOR DESCRIPTION		SUBJECTS: SECOND TERM.	Hrs. a Week	SEE FOR DESCRIPTION	
		Page	Course			Page	Course
Algebra, . .	5	51	I.	Analytic Geom.,	5	52	II.
English, . .	5	41	I.	English, - -	5	41	I.
French or German, -	5	48 51	I.	French or German, -	5	48 51	I.
Freehand Draw.	2	74	Ia. Ib.	Freehand Draw.	2	74	Ia. Ib.
History of Arch.	2	68	Ia.	History of Arch.	2	68	Ia.
Arch. Orders.	4	69	II.	Arch. Orders.	4	69	II.

SOPHOMORE YEAR.

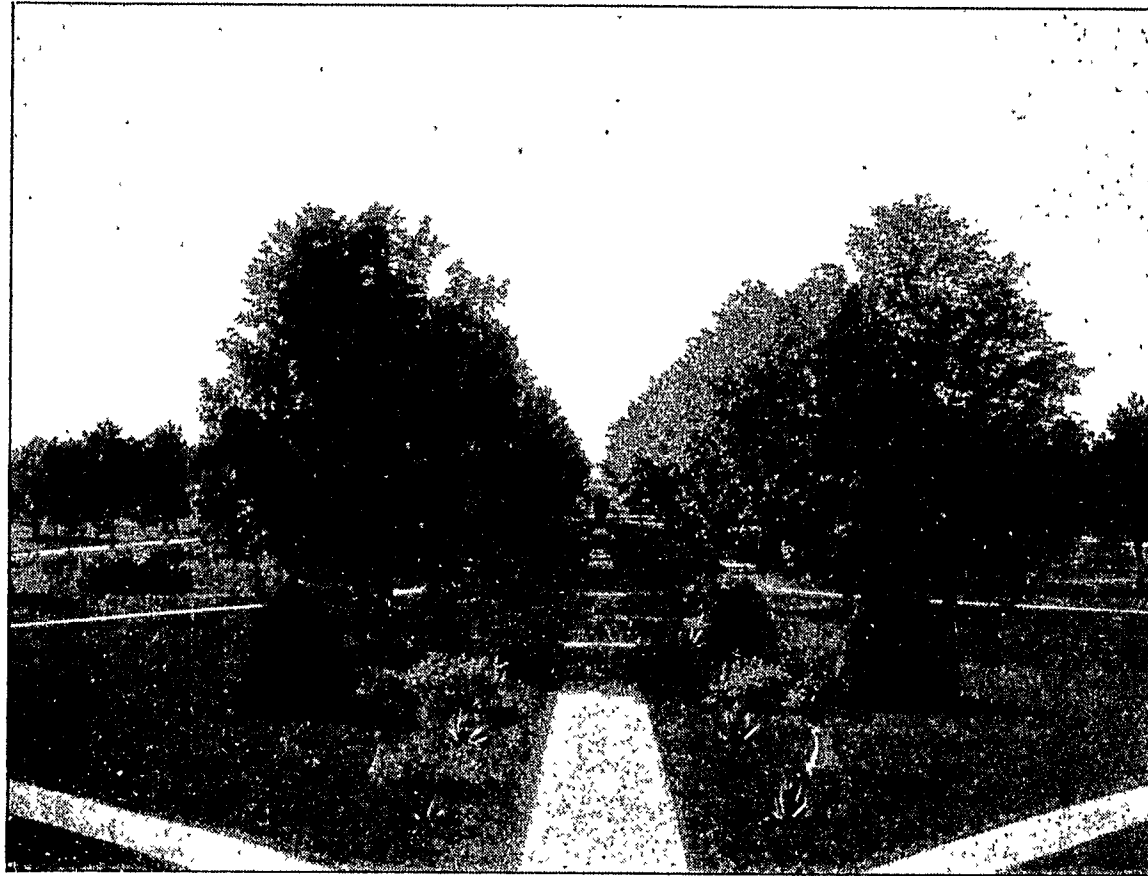
Calculus, . .	5	52	III.	Calculus, - -	5	52	IV.
Des. Geom., -	3	54 76	I III.	Des. Geom., -	3	54 76	I. III.
Physics, . .	3	83	II. III.	Physics, - -	3	83	II. III.
El. Design, -	4	75	III.	El. Design, -	4	75	III.
History of Arch.	2	68	Ia.	History of Arch.	2	68	Ia.
Freehand Draw.	3	74	IIa.	Freehand Draw.	3	74	IIa.
Pen and Ink,	1	78	XII.	Pen and Ink,	1	78	XII.
Water Colors,	2	77	X	Materials, .	2	71	VIII.

JUNIOR YEAR.

Analytic Mech.,	3	56	VIII.	Mech. of Mat'ls	3	56	IX.
Freehand Draw.	4	74	I Ib.	Freehand Draw.	4	74	I Ib.
Arch. Research,	3	69	Ib.	Arch. Research,	3	69	Ib.
Pen and Ink,	1	78	XII.	Pen and Ink,	1	78	XII.
Heat and Vent.,	3	70	IV.	Roof-Trusses,	5	72	XI.
Specifications,	2	71	VII.	Specifications,	2	71	VII.
Design, - -	5	69	III	Design, - -	5	69	III.
Struct. Design,	1	71	IX.				

SENIOR YEAR.

Adv. Design,	10	69	III.	Theory Arches,	2	71	VI.
Adv. Cons. Des.,	8	70	V.	Hist. of Orn'm't	1	72	X.
Rendering,	2	78	XI.	House Sanit'n,	2	72	XII.
House Sanit'n,	2	72	XII.	Thesis Work,	18	72	XIII.



VIEW FROM THE MAIN ENTRANCE.

INSTRUCTORS IN THE PREPARATORY SCHOOL.

REV. WILLIAM MARR, C. S. C.,
Christian Doctrine.

REV. JOSEPH J. GALLAGHER, C. S. C.,
Latin.

REV. THOMAS H. CORBETT, C. S. C.,
Mathematics.

REV. MICHAEL OSWALD, C. S. C.,
Greek.

REV. MATTHEW SCHUMACHER, C. S. C.,
History.

REV. JULIUS NIEUWLAND, C. S. C.,
Botany.

REV. JAMES TRAHEY, C. S. C.,
Latin.

REV. TIMOTHY MURPHY, C. S. C.,
Christian Doctrine.

BRO. ALEXANDER, C. S. C.,
Mathematics.

BRO. PHILIP NERI, C. S. C.,
Penmanship.

BRO. CYPRIAN, C. S. C.,
Bookkeeping and Commercial Law.

WILLIAM L. BENITZ, M. E., E. E.,
Mathematics.

EDWARD J. MAURUS, M. S.,
Mathematics and Astronomy.

SHERMAN STEELE, Litt. B., LL. B.,
English and Civics.

CHARLES PETERSEN, A. M.,
German.

ALPHAËUS B. REYNOLDS, A. B.,
Latin and English.

WILLIAM J. MAHONEY, A. B., LL. B.,
Mathematics.

JOHN QUINLAN, A. B.,
English.

MICHAEL J. SHEA, A. M.,
Latin and Greek.

THOMAS JAMES DEHEY, A. M.,
French and English.

JOHN B. RENO, A. M., LL. B.,
History and English.

TERENCE B. COSGROVE, A. B.,
Mathematics.

GALLITZEN A. FARABAUGH, A. B.,
History and English.

CLARENCE J. KENNEDY, B. S.,
Physiology and Zoology.

HENRY M. KEMPER, LITT. B.,
Latin and English.

JOHN J. MARONEY,
English.

ARTHUR S. FUNK,
Chemistry.

MAURUS J. UHRICH,
Physics.

JOHN WORDEN,
Drawing.



A DAY IN THE WOODS.

For the Classical, English and Economic Courses.

FIRST YEAR.

SUBJECTS: FIRST TERM.	Hrs. a Week	COURSE	SUBJECTS: SECOND TERM.	Hrs a Week	COURSE
Latin, - - -	5	A	Latin, - - -	5	A
English, - - -	5	A	English, - - -	5	A
History, - - -	3	A	History, - - -	3	A
Mathematics, -	5	A	Mathematics, -	5	B
Science, - - -	5	B	Science, - - -	3	D

SECOND YEAR.

Latin, - - -	5	B	Latin, - - -	5	B
Greek, - - -	4	A	Greek, - - -	4	A
English, - - -	5	B	English, - - -	5	B
History, - - -	3	B	History, - - -	3	B
Mathematics, -	5	C	Mathematics, -	5	D

THIRD YEAR.

Latin, - - -	5	C	Latin, - - -	5	C
Greek, - - -	4	B	Greek, - - -	4	B
English, - - -	5	C	English, - - -	5	C
History, - - -	3	C	History, - - -	3	C
Mathematics, -	5	E	Science, - - -	3	C
Science, - - -	2	G	Science, - - -	2	G

FOURTH YEAR.

Latin, - - -	5	D	Latin, - - -	5	D
Greek, - - -	4	C	Greek, - - -	4	C
English, - - -	4	D	English, - - -	4	D
Ger. or French	5		Ger. or French	5	F
Science, - - -	5	E	Science, - - -	5	

Students in the English and Economic Courses will begin German or French in the second year instead of Greek and continue it during the two remaining years.

Students that begin French in the second year will take up German in the fourth year. Students that begin German in the second year will take up French in the fourth year. Classical Students will begin French or German in the fourth year.

For the Biological and General Science Courses.

FIRST YEAR.

SUBJECTS: FIRST TERM.	Hrs. a Week	COURSE	SUBJECTS: SECOND TERM.	Hrs. a Week	COURSE
English, - -	5	A	English, - -	5	A
Mathematics, -	5	A	Mathematics, -	5	B
Latin, - - -	5	A	Latin, - - -	5	A
Drawing, - -	3	A	Drawing, - -	3	B
Science, - -	5	A	Science, - -	5	D

SECOND YEAR.

English, - -	5	B	English, - -	5	B
Mathematics, -	5	C	Mathematics, -	5	D
History, - -	3	A	History, - -	3	A
Science, - -	5	B	Science, - -	5	C
Latin, - - -	5	B	Latin, - - -	5	B

THIRD YEAR.

English, - -	5	C	English, - -	5	C
Mathematics, -	5	E	Mathematics, -	5	F
German, - -	5	A	German, - -	5	A
Science, - -	5	E	Science, - -	5	E
History, - -	3	B	History, - -	3	B

FOURTH YEAR.

English, - -	5	D	English, - -	5	D
German, - -	3	B	German, - -	3	B
Science, - -	5	F	Science, - -	5	F
Science, - -	2	G	Science, - -	2	G
History, - -	3	C	History, - -	3	C
Civil Gov'nm't	2	A	Civil Gov'nm't	2	A

General Science Students will take Trigonometry in the fourth year instead of Civil Government.

Biological Students will take four hours of Drawing in the second term of the third year instead of Mathematics F.

For the Engineering and Architectural Courses.

FIRST YEAR.

SUBJECTS: FIRST TERM	Hrs a Week	COURSE	SUBJECTS: SECOND TERM.	Hrs a Week	COURSE
English, - -	5	A	English, - -	5	A
Mathematics, -	5	A	Mathematics, -	5	B
History, - -	3	A	History, - -	3	A
Science, - -	5	A	Science, - -	5	D
Drawing, - -	3	A	Drawing, - -	3	B

SECOND YEAR.

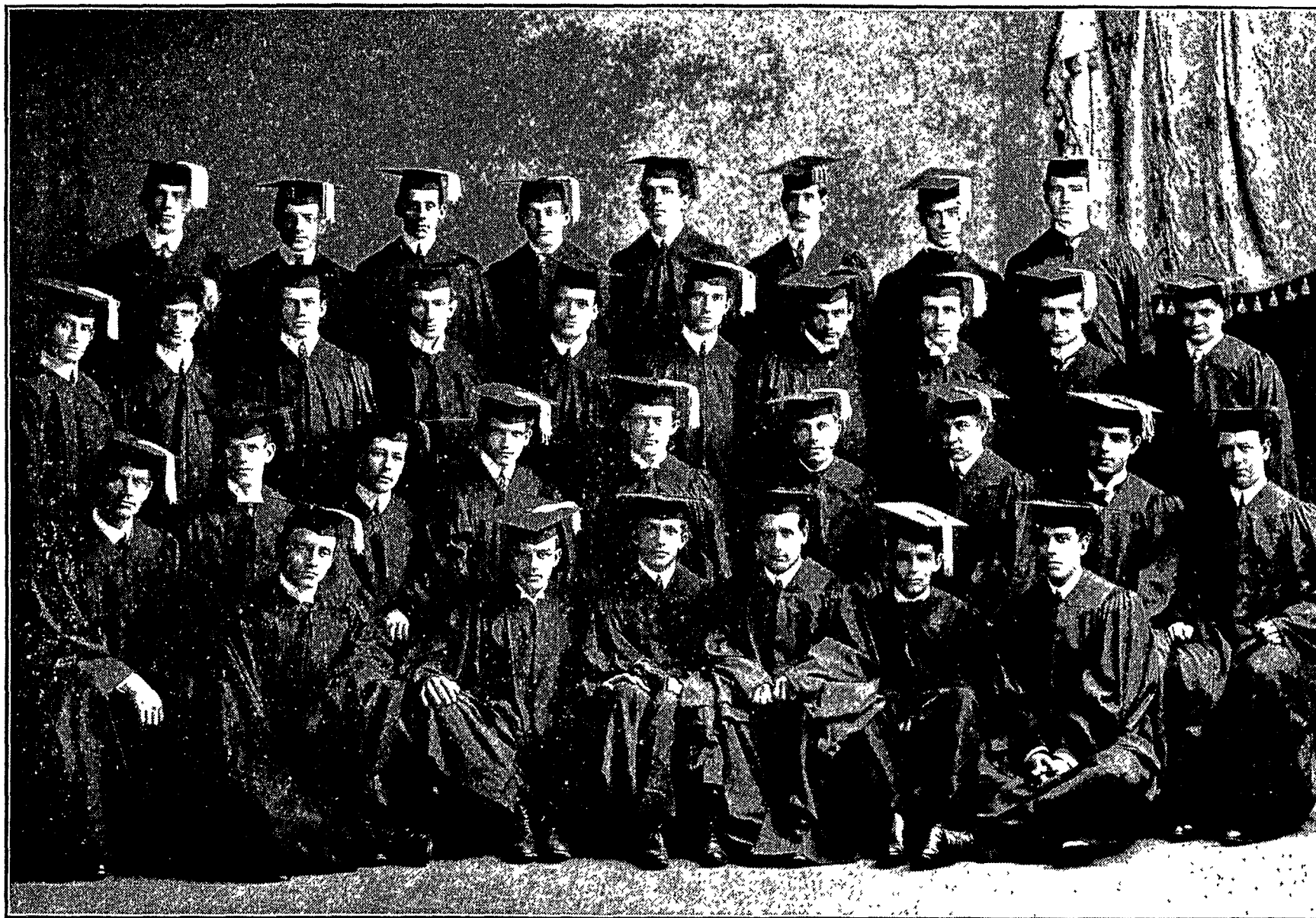
English, - -	5	B	English, - -	5	B
Mathematics, -	5	C	Mathematics, -	5	D
History, - -	3	B	History, - -	3	B
Science, - -	5	B	Science, - -	5	C
Civil Gov'rnm't	2	A	Civil Gov'rnm't	2	A

THIRD YEAR.

English, - -	5	C	English, - -	5	C
Mathematics, -	5	E	Mathematics, -	5	F
German, - -	5	A	German, - -	5	A
Science, - -	5	E	Science, - -	5	E
History, - -	3	C	History, - -	3	C

FOURTH YEAR.

English, - -	5	D	English, - -	5	D
Mathematics, -	5	G	Mathematics, -	5	H
German, - -	3	B	German, - -	3	B
Science, - -	5	F	Science, - -	5	F
Science, - -	2	G	Science, - -	2	G



A TYPICAL CLASS.

DEGREES CONFERRED AT COMMENCEMENT JUNE, 1905.

- THE DEGREE OF DOCTOR OF LAWS was conferred on
The Honorable Marcus Kavanaugh, Chicago, Illinois.
- THE DEGREE OF MASTER OF ARTS IN PHILOSOPHY was
conferred on
Michael J. Shea, Holyoke, Massachusetts.
- THE DEGREE OF BACHELOR OF ARTS was conferred on
Bernard S. Fahy, Rome, Georgia.
- THE DEGREE OF BACHELOR OF LETTERS was con-
ferred on
William Duffen Jamieson, Chicago, Illinois.
Henry M. Kemper, Chicago, Illinois.
- THE DEGREE OF BACHELOR OF PHILOSOPHY was con-
ferred on
Daniel J. O'Connor, Chicago, Illinois.
- THE DEGREE OF CIVIL ENGINEER was conferred on
Louis J. Salmon, Syracuse, New York.
Virgilio N. Rayneri y Piedra, Havana, Cuba.
Walter A. Stevens, Logansport, Indiana.
John C. O'Neill, Chicago, Illinois.
- THE DEGREE OF MECHANICAL ENGINEER IN ELECTRI-
CAL ENGINEERING was conferred on
Ricardo A. Trevino y Barrera, Monterey, Mexico.
- THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY was
conferred on
John Worden, Ossining, New York.
John Read Voigt, Jeffersonville, Indiana.
Clarence J. Kennedy, Chicago, Illinois.
- THE DEGREE OF BACHELOR OF SCIENCE was con-
ferred on
John William O'Neill, Mineral Point, Wisconsin.
- THE DEGREE OF BACHELOR OF LAWS was conferred on
Durrant Church, Washington, District of Columbia.
Earl E. Gruber, Union City, Indiana.

Francis J. Loughran, Joliet, Illinois.

William J. Mahoney, Brookfield, Massachusetts.

Henry J. McGlew, Notre Dame, Indiana.

Daniel L. Murphy, Odell, Illinois.

John J. O'Connor, Delphi, Indiana.

Edward H. Schwab, Loretto, Pennsylvania.

Thomas J. Welch, Moline, Illinois.

THE DEGREE OF GRADUATE IN PHARMACY AND PHARMACEUTICAL CHEMIST was conferred on

Joseph Alfred Moran, Indianapolis, Indiana.

THE DEGREE OF GRADUATE IN PHARMACY was conferred on

Patrick Ambrose Beacom, Sheldon, Iowa.

Charles A. M. Winter, Pittsburg, Pennsylvania.

Leo P. Van Rie, Mishawaka, Indiana.

Joaquin H. Medrano y Polanco, Guantanamo, Cuba.

CERTIFICATE FOR SHORT COURSE IN ELECTRICAL ENGINEERING was conferred on

Raymond J. Burns, Pittsburg, Pennsylvania.

Howard J. Diebold, Pittsburg, Pennsylvania.

COMMERCIAL DIPLOMAS.

COMMERCIAL DIPLOMAS were awarded to

Thomas P. Butler, Allegheny, Pennsylvania.

George E. Washburn, Chicago, Illinois.

Herbert P. Dowling, Lexington, Kentucky.

John C. Fanger, Cincinnati, Ohio.

Mark T. Falvey, San Pierre, Indiana.

Lawrence McDonald, Seward, Illinois.

David McDonald, Seward, Illinois.

John W. Nelson, Illiopolis, Illinois.

Manuel G. Rubio, Sancti Spiritus, Cuba.

Edward G. Wunsch, Morris, Minnesota.

Charles P. Holliday, Monmouth, Illinois.

James Allan Dubbs, Mendota, Illinois.



A GLIMPSE OF ST. JOSEPH'S LAKE.

NEEDS OF THE UNIVERSITY.

Visitors to Notre Dame judge from the appearance of the buildings and grounds that the University has no need of money. It is, nevertheless, absolutely without endowment, and its work is seriously hampered because it has no resources except the fees of students. There are two scholarships and the interest from these foundations is used in educating and boarding two students.

There were in 1901 1,452 Catholic students in 6 per centum of the non-Catholic colleges of America, and very many of these will lose their faith, and all will be weakened in that faith, because our people look upon collegiate institutions as the property of private corporations which are to be left to take care of themselves.

Notre Dame asks for scholarships for boys that can not pay the expense of education, and who therefore are obliged to go to non-Catholic colleges to the detriment of their faith. A foundation of \$8,000 will educate and board a student as long as the University exists. As one bursar is graduated another can take his place. The founder of the scholarship, of course, always has the privilege of appointing the student.

We lack money for a library building, and for two more dwelling-halls like Sorin Hall.

Foundations for scholarships are also a pressing need.

There is no Library fund for the purchase of new books.

The names of benefactors will be given to all foundations.



VIEW FROM ST. MARY'S LAKE.

BEQUESTS SHOULD BE MADE IN THIS FORM :

UNIVERSITY OF NOTRE DAME DU LAC.

I give, devise and bequeath to the UNIVERSITY
OF NOTRE DAME DU LAC, an institution incor-
porated under the laws of the State of Indiana, and
located at Notre Dame, Indiana.....

The Notre Dame Scholastic

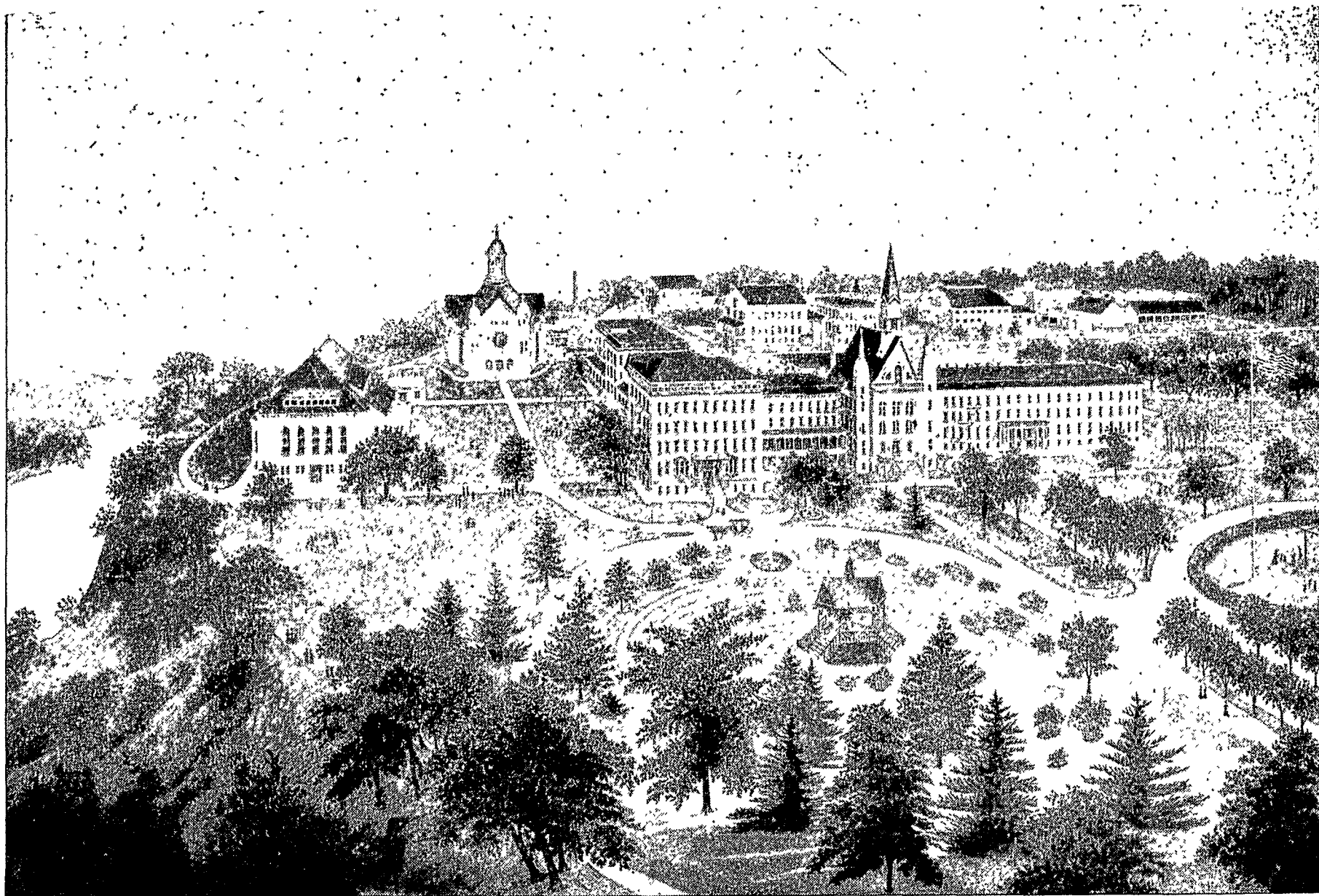
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