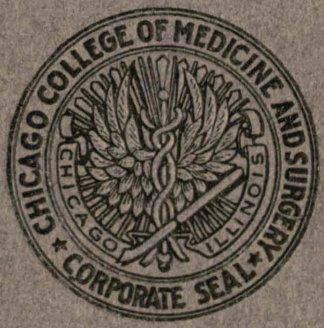
1916

Old School Catalog 1916-17, Chicago College of Medicine and Surgery

Valparaiso University

Chicago College of Medicine and Surgery



Annual Announcement

Medical Department
Valparaiso University

1916-1917
Chicago, Illinois

MEDICAL BUILDING, VALPARAISO UNIVERSITY

CHICAGO COLLEGE OF MEDICINE AND SURGERY AND WILLARD HOSPITAL

Annual Announcement

OF

THE CHICAGO COLLEGE

of

MEDICINE AND SURGERY

(Medical Department Valparaiso University)

700-706 South Lincoln Street, Chicago, Illinois

OPPOSITE COOK COUNTY HOSPITAL

College Calendar, 1916-1917.

1916.

Sept. 26—Opening Exercises at 8:00 p. m. Large Amphitheater.
Sept. 27—*First Semester* class work begins.
Oct. 10—Registration closes.
Oct. 23-28—Examinations for removal of conditions.
Nov. 30—Thanksgiving Day Recess (one day only)
Dec. 1-2—Mid-semester examinations.
Dec 23—Christmas Vacation begins.

1917.

Jan. 3—All work resumed, 8:00 a. m.
Jan. 22—First Semester examinations begin.
Jan. 27—*First Semester* closes.
Jan. 29—*Second Semester* begins.
April 12-17—Examinations for removal of conditions.
May 15—Second Semester examinations begin.
May 31—Commencement Exercises.
May 31—8:00 p. m. Alumni Meeting and Banquet.
May 31—Summer work begins.
Sept. 21—Summer work closes.
Sept. 26—Session of 1917-18 begins.

Officers of the University.

HENRY BAKER BROWN, A. M., *President.*
OLIVER P. KINSEY, A. M., *Vice-President.*

Board of Trustees of Medical Department.

GRANT ORR, *President.*
J. NEWTON ROE, *Secretary.*
RAYMOND CARDONA.
JOHN S. NAGEL.
HYMAN J. ROSENBERG.

Executive Officers of the Faculty.

JOHN S. NAGEL, M. D., *Dean.*
G. E. WYNEKEN, M. D., *Secretary.*
GEORGE A. SHARE, M. D., *Supt. of Dispensary.*

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Historical.

The Valparaiso University, with which the Chicago College of Medicine and Surgery is affiliated, was established in 1873. The University maintains nearly every department of education.

More than five thousand students enroll annually, and the daily average attendance is about three thousand five hundred. The University has nearly sixty thousand alumni, its members being scattered throughout the United States, Canada and foreign countries.

The Chicago College of Dental Surgery, one of the leading dental educational institutions in America, is also affiliated with the University, and is situated two blocks from the medical school.

Organization.

The Chicago College of Medicine and Surgery was established in 1902, under the corporate title of the American College of Medicine and Surgery. This name was changed to the present name February 16, 1907. The properties of the college are held and the financial interests are administered for the benefit of the students of the college by a perpetual board of trustees. The details of instruction, examination and discipline are delegated to the faculty, subject to the approval of the board of trustees.

Buildings and Equipment.

The College buildings are located at 624-706 South Lincoln Street. They have a frontage of 200 feet facing Cook County Hospital, in the midst of the greatest hospital and medical district in the United States. They consist of four large, well-lighted, steam-heated, four-story and basement buildings, constructed of brick and stone. The central building has a total floor space of about 30,000 square feet. There are in it two large amphitheaters, three recitation rooms, laboratories, museum, office, numerous clinic rooms, and retiring rooms. The laboratories of bacteriology, histology and pathology are located in the Dental building, one block from the college. A new addition to the main college building provides six large lecture and laboratory rooms, aggregating a floor space of more than fifteen thousand square feet.

In the adjacent building on the north is situated the Lincoln Dispensary.

The Frances E. Willard Hospital adjoins the main building on the south, and is connected with the lower amphitheater of the college by a steel corridor across the alley. This hospital is used for clinical teaching. It has two large clinical amphitheaters.

The West Side Hospital of Chicago is located one-half block from the college. It is a modern, thoroughly up-to-date hospital. It has a large clinical amphitheater as well as several smaller operating rooms. The majority of the clinicians in this hospital are members of the Faculty of this College and hold clinics for its students.

Several members of the Faculty are on the staff of St. Mary's Hospital, Deaconess Hospital, St. Anthony's Hospital and scheduled clinical instruction is given in each.

Dispensary.

The dispensary, now known as the Lincoln Dispensary, has been entirely remodeled, reorganized and newly equipped. It is divided into nine departments—medicine, surgery, gynecology, pediatrics, neurology, dermatology, genito-urinary diseases, ophthalmology and otology, rhinology and laryngology. Clinics are held daily from 10 to 12 and 2 to 4 in medicine, surgery and gynecology, and on alternate days from 10 to 12 and 2 to 4 in the other departments. Twice a week, on Wednesdays and Saturdays, from 1 to 2, the Maternity Department of the dispensary is open for the registration of out-patients, who are delivered free of charge under the direction of the Head of the Department of Obstetrics.

The electro-therapeutic department connected with the dispensary is open every day from 10 to 4. This department is fully equipped and is in charge of a competent attendant.

The dispensary instruction is given in the last two years of the course and is of equal value with all other clinical instruction given elsewhere in the college and affiliated hospitals. About three weeks' service is given in each department in each year, so that each student receives a total of about 60 hours in medicine, surgery and gynecology, and 30-44 hours in the other six departments. The instructors are selected on the basis of merit, and have the same rank as instructors in other courses.

The superintendent of the dispensary is in immediate charge of the work under the direction of a committee of the faculty. He devotes all his time to this work. A clerk looks after the

details of the dispensary office, and a graduate in pharmacy has charge of the drug room. Detailed histories are kept of every case, so that these records are available for teaching purposes in other departments of instruction.

Each department is thoroughly equipped with such instruments and apparatus as are needed to do thorough and efficient work, and is under the immediate supervision of the various chiefs of divisions. Attendance on these clinics is as important as attendance on any other course of study, and is an absolute requirement for graduation.

Hospital Clinics.

Clinics are given to small sections of the fourth and fifth year classes in the affiliated hospitals, with which members of the faculty are connected. While some of these clinics are still held in the amphitheater, it is the aim of the college to give as much bedside instruction as is possible.

Clinics are now held in the Frances E. Willard Hospital, the West Side Hospital, St. Mary's Hospital, St. Anthony's Hospital, Cook County Hospital and Deaconess Hospital. Attendance on all clinics held in these hospitals is obligatory. Attendance on necropsies held in the Cook County Morgue is also required. This work is in charge of the Department of Pathology, Bacteriology and Hygiene.

Internships.

Internships in sixty or more hospitals in Chicago and elsewhere are open to students of this college either by examination or appointment. Sixty-four interns are selected each year by competitive examination for the Cook County Hospital. The term of service is eighteen months, and the incumbents receive their room, board and laundry free. Service in the other hospitals varies from twelve to twenty-four months. Many graduates of this college have received appointments in hospitals outside of Chicago. Every graduate should secure an internship. The time is not far distant when such service will be made a requirement for graduation. In some states such a requirement is now in force. The various hospitals of the country are now being investigated for the purpose of making a list of hospitals in which acceptable and recognized intern service is offered, so that graduates

may qualify to meet the requirements of a year of hospital service before licensure to practice may be obtained.

About 70 per cent of the graduates of this school secured internships last year.

The Byron Robinson Library.

The library of the college, named in honor of the late Dr. Byron Robinson, while still in its infancy, already contains about five thousand bound volumes of books and periodicals, and this number is being added to rapidly. All of the best current medical publications are on the regular subscription list of the library, and proper representation is given to each department of the curriculum. The files include American, German, French and English journals. The library is open every week day from 9 to 5, and is in charge of a competent librarian, who is in constant attendance.

Outlines of Courses.

Three courses of study leading to the degree of Doctor of Medicine are offered:

1. A FOUR-YEAR COURSE for graduates of Colleges of Arts and Sciences and such students as are able to present (in addition to a four-year high school diploma or its equivalent), evidence of at least one year's college work in Chemistry, Biology, Physics and French or German.

2. A FIVE-YEAR COURSE for students who present only a four-year high school diploma or its equivalent.

3. A SIX-YEAR COURSE in conjunction with Valparaiso University, leading to the degrees of M. D. and B. S. A four-year high school diploma or equivalent preparation is required for entrance to this course.

OUTLINE OF THE FOUR-YEAR COURSE.

FIRST OR FRESHMAN YEAR—Dissection, Histology, Embryology, Organic and Physiologic Chemistry and Physiology, Materia Medica.

SECOND OR SOPHOMORE YEAR—Applied Anatomy, Physiology, Bacteriology, Pathology, Clinical Diagnosis, Pharmacology, Normal Physical Diagnosis, Surgical Pathology and Minor Surgery, Anatomy of Nervous System, Therapeutics.

THIRD OR JUNIOR YEAR—Medicine, Pediatrics, Nervous Diseases, Obstetrics, Surgery, Gynecology, Genito-Urinary Diseases, Dermatology, Medical Jurisprudence, Operative Surgery, Ethics.

FOURTH OR SENIOR YEAR—Chiefly clinical and largely in small sections at the hospitals and dispensaries. Gynecology, Obstetrics, Nervous and Mental Diseases, Ear, Nose and Throat Diseases, Ophthalmology, Surgery, Orthopedic Surgery, Medicine, Pediatrics, Public Health, Military Surgery, Drug Addiction.

OUTLINE OF THE FIVE-YEAR COURSE.

FIRST OR COLLEGIATE MEDICAL YEAR—Biology, Physics, General Chemistry and Qualitative Analysis, and German.

Lectures—Osteology, Materia Medica and Histology.

The remaining four years are the same as the regular Four-Year Course already outlined.

OUTLINE OF THE SIX-YEAR COURSE.

Students may secure the degrees of Bachelor of Science and Doctor of Medicine under the following plan:

FIRST YEAR—College English, Mathematics, History or Language, Logic, Psychology, Ethics.

SECOND YEAR—Biology, Physics, Chemistry, Language.

THIRD YEAR and following years same as four-year Medical course.

Requirements for Admission.

A. *Admission to the Four-Year Course:*

Candidates for the four-year course in medicine will be admitted upon the following conditions:

1. Presentation of a bachelor's degree from an approved college or university, provided such degree includes work indicated in 2, or

2. Presentation of grades covering one year of college work in Biology, Chemistry, Physics, and French or German, in addition to a four-year high school course, covering 15 units of specified work.

B. *Admission to the Five-Year Course:*

For admission to the preliminary college year, students must have completed a four-year course of at least fifteen units in a standard accredited high school or other institution of standard secondary school grade, or have its equivalent as demon-

strated by an examination conducted by a duly authorized examiner of the College Entrance Examination Board, or by the authorized examiner of a standard college or university or by an examiner whose certificates are accepted by such approved standard colleges or universities. A detailed statement of attendance at the secondary school, and a transcript of the student's work is kept on file. This evidence of actual attendance at the secondary school or schools is obtained for every student no matter whether he is admitted by examination or on presentation of acceptable credentials.

The Collegiate-Medical course consists of special studies arranged for this grade of candidates. *In this way they are enabled to make up their year of college work, and by doing the work in a medical atmosphere and from a medical standpoint they gain a more practical training for medicine than can be obtained in the ordinary college of Arts and Science.* Twenty-five states at this date require, or will soon require, at least one year of college work, above the high school, and in addition to a four-year medical course, from all candidates for license. The Collegiate-Medical year in this institution offers to high school graduates and those with equivalent preparation the opportunity to get this additional training in the medical school.

High school and academy graduates enter the five-year course by presenting a completed or unconditional medical student's certificate, to be granted by a state medical examining and licensing board, or a board empowered by statute to grant such certificates, or a certificate of entrance to the academic department of any state university, or a certificate of entrance to an accredited university or college, providing that said certificate is granted on no less than the following requirements:

(a) A diploma and transcript of record from a fully accredited high school, normal school or academy requiring for admission evidence of the completion of a standard course in primary and intermediate grades, and for graduation, the completion of a standard four-year high school course, embracing two years (2 units) of mathematics, three years (3 units) of English, two years (2 units) of one foreign language, one year (1 unit) of American history and seven years (7 units) of further credit in language, literature, history or science, making the total of units at least fifteen; and, in addition, one year each of physics, chemistry, biology, and French or German of college grade of each not less than eight semester hours.

One unit in any subject is the equivalent of work in that

subject for four or five periods per week for a year of at least thirty-six weeks, periods to be not less than forty minutes in length. One unit is equivalent to two semester credits or 2 points or 5 counts.

The term "accredited" as applied to high schools, academies, colleges and universities means institutions of that type that have been investigated and are accredited by the State University of their respective states, or by the North Central Association of Colleges and Secondary Schools, the Association of Colleges and Preparatory Schools of the Southern States, the Association of Colleges and Preparatory Schools of the Middle States and Maryland, the New England College Entrance Certificate Board, the Association of American Universities and the Association of State Universities.

(b) For the high school requirement an examination totaling 15 units.

Medical College Entrance Examinations in Illinois.

An amendment to the act regulating the practice of medicine in the State of Illinois, approved June 25, 1908, and effective July 1, 1908, reads as follows: "And provided further that the diploma of any approved high school or equivalent school having a course of studies requiring an attendance through four school years or a certificate of having passed a satisfactory examination before the State Superintendent of Public Instruction or like State officer, in the studies embraced in the curriculum of such approved high school, shall be considered satisfactory evidence of preliminary education." The State Superintendent of Public Instruction has appointed two deputies as a board of examiners to conduct such examinations for entrance into medical colleges under the following conditions:

1. The certificate issued to a successful candidate must show the subjects covered by the examination, the units earned, and the per cent of attainment in each.

2. A unit shall represent the standard amount of knowledge gained in a recognized high school by the successful study of at least thirty-six weeks of five recitations per week.

3. Minimum degree of efficiency required, 70 per cent.

4. Each candidate is to show that he is entitled to receive a total of fifteen (15) units, as outlined in the standard of requirements laid down by the Illinois State Board of Health.

5. Not more than six public examinations shall be held by the board of examiners each year. The examination of each candidate shall be written upon questions approved by the Super-

intendent of Public Instruction. The manuscript from all examinations shall be kept on file for one year. Each candidate will be notified by mail as to the results of his examination. A fee of five dollars is required by law to be paid by each candidate before he begins any examination, and no part of this fee will be returned to the candidate after the examination has begun. No private examination will be given. Each examination will begin promptly at 8:30 a. m., and will continue for two days. No allowance will be made for tardiness.

All applicants, to receive the certificate, must make the fifteen units in not more than three examinations; not fewer than seven units may be made in the first examination, five in the second and the remaining three in the third examination. Each trial shall be regarded as a separate examination, for which a fee must be paid.

If an applicant fails to make the fifteen units in the three examinations, all grades made shall lapse.

Documentary evidence of work done in a recognized secondary school may be offered to this board in lieu of part examination.

Before entering the examination the candidate will be required to indicate the optional studies in which he wishes to be examined and he must agree to the conditions prescribed by the State Superintendent and Board of Examiners, from which no deviation will be allowed.

Work of the Preliminary College Year as Outlined by the Council on Medical Education of the American Medical Association and the Association of American Medical Colleges.

The preliminary college year shall extend through one college session of at least thirty-two weeks of actual instruction, including final examinations.

In excellence of teaching and in content, the work of this preliminary college year shall be at least equal to the work done in the freshman year in standard colleges and universities which enforce for admission at least fifteen units for accredited high school work, and exact for graduation at least 120 semester hours* of collegiate work.

This preliminary college year shall consist of at least thirty semester hours,* fully completed before the student enters the

*Or its full equivalent in other terms of measurement.

medical school. This is entirely in addition to the secondary school work, or to any of the required sciences in which the student may be conditioned. Additional college credits are necessary also, to make up any deficiencies there may be in high school credits. For example, if a student completed only three years of high school work before entering "college," then two years of collegiate work (60 semester hours) should be required before he is admitted to the medical school.

This preliminary college year shall include courses in physics, chemistry, biology and French or German, each science course to embrace at least eight semester hours of didactic and laboratory work in each subject as shown in the accompanying schedule, provided that the requirement in biology may be satisfied by presenting six semester hours of college zoology, or by presenting one unit of high school biology, including laboratory work, and completing four semester hours of college zoology; and provided that the requirements in physics may be satisfied by presenting one unit of high school physics, including laboratory work, and completing four semester hours of college physics which continues and does not duplicate the work done in high school. Under no arrangement, however, should there be a total of less than thirty semester hours.

SCHEDULE.

Subject.	Lectures or Recitations Per Week.	Laboratory Periods Per Week.	Total Hours Per Semester.	Total Semester Hours Per Year.
Physics, 1.....	2 or 3	2 or 1	4	8
Chemistry, 1.....	2	2	4	8
Biology, 1.....	2 or 3	2 or 1	4	8
(or Zoology, 1).....	(1)	2	(3)	(6)
French or German, 2....	4 or 3	.....	4 or 3	8 or 6
Totals	9 or 11	6 or 5	16 or 15	32 or 30

OR, EXPRESSED IN CLASS HOURS.

Subject.	Total Hours Lectures, or Recitations.	Total Hours Laboratory Work.	Total Minimum Hours Didactic and Laboratory.
Physics, 1.....	64 or 96	128 or 64	192 or 160
Chemistry, 1.....	64	128	192
Biology, 1.....	64 or 96	128 or 64	192 or 160
(or Zoology, 1).....	(32)	(128)	(160)
French or German, 2.....	128 or 96	.....	128 or 96
Totals	288 or 352	284 or 256	704 or 640

Each laboratory period must extend over at least two hours.

A year of work in a college of medicine, dentistry, pharmacy, or other professional college is not considered as an equivalent to the required premedical college year.

Entrance Conditions Until January 1, 1917.

A candidate who has completed at least one year (thirty semester hours (see table) of work in an approved college of liberal arts or science may be admitted with the following subject conditions: 1. In one-half of the required course in physics, and in one-half of the course in a modern language, or, 2. In one-half of the required course in biology, and in one-half of the course in a modern language. These conditions should be removed before the beginning of the work of the second medical year and the credits for these conditions must be in addition to the required thirty semester hours. No conditions may be permitted in the prescribed eight semester hours of college chemistry.

Registration.

The five days preceding the beginning of instruction in any semester and the first week of each semester are the regular registration days. Students are not admitted to classes unless properly registered. Candidates applying for admission are required to present a detailed statement of their preparatory studies on blanks specially provided for that purpose. These blanks are furnished on application.

Time of Admission.

For the most part students will find it advantageous to enter at the beginning of the Fall Semester, September 27, 1916, but qualified students may begin their work with the Winter Semester, January 29, 1917. No student is admitted more than ten days after the beginning of a semester except by special vote of the Executive Faculty.

Graduation.

A candidate for the degree of Doctor of Medicine must be 21 years of age and possess a good moral character. He must have attended four (or five, see requirements for admission) courses of study in four calendar years, each annual course to have been of not less than 32 teaching weeks' duration, and he shall have attended not less than eighty per cent of the exercises in each course of study for which credit is sought. Allowance for absence will be granted only for illness of the student or his immediate family. No student shall be graduated unless he shall have attained a passing grade in each and all subjects of the required curriculum.

The last year's course shall have been taken in this institution.

All indebtedness to the school shall have been paid.

Examinations.

Examinations are held at the close of each semester. Only such students as have attended at least eighty per cent of the exercises in each course are admitted to the examinations, except by special consent of the Executive Faculty. A student who is absent from an examination is expected to take the regular examination at the close of the next semester. No special examinations will be given except on authorization of the faculty.

Students receiving aid in examinations shall be required to repeat the semester's work and for a second offense shall be expelled from the college.

The following system of designation of grades has been adopted:

A—95 to 100.
B—90 to 95.
C—85 to 90.
D—80 to 85.
E—70 to 80. Conditioned. *Must be re-examined.*
F—Less than 70. Failed. *Must repeat course.*

Failures and Conditions.

A failure can be made good only by repeating the work and passing an examination. A condition must be made good by passing an examination, which is regularly held at the end of the semester following that in which the condition was incurred. If the condition is not made up at this time it becomes a failure and the study must be repeated in class.

Any student whose record is unsatisfactory may be warned, placed on probation or advised to withdraw. A student whose work is poor may be set back in rank or required to spend additional time or take extra studies before receiving his degree. The additional time may vary from a year to a semester, or he may be required to take additional courses or to repeat courses in any department in which his grades are low. In such case he may receive no credit toward graduation for the grades which made such action necessary. He may be assigned a smaller number of recitations than the standard and be required to reach a correspondingly higher grade in them.

No Freshman deficiency may be carried into the Junior year.

No Sophomore deficiencies may be carried into the Senior year. No Junior deficiencies may be carried into the second semester of the Senior year.

Any student failing in branches representing more than one-third the hours of work of a year is classified again in the same year, and repeats the subjects in which he has failed, taking only such work in the advanced class as does not conflict with these subjects.

Advanced Standing.

Students with the required preliminary education who have pursued equivalent courses in recognized medical schools rated at not less than class B by the Council on Medical Education of the

American Medical Association, and for whom properly certified records are directly transmitted to this college will be admitted to such standing as their credentials may be adjudged to entitle them.

Special Students.

Persons twenty-one years of age, who do not possess all of the requirements for admission and are not candidates for a degree, are permitted to enter upon giving satisfactory evidence that they are prepared to take advantageously the studies which they desire. Such students are expected to select their studies from courses open to freshmen. If they desire to take studies to which only advanced students are regularly admitted, they must show special preparation for such courses.

Special students who desire subsequently to become candidates for a degree must satisfy the regular entrance requirements.

Graduates in Medicine.

A graduate from another medical college may obtain a diploma from this college by complying with the entrance requirements and submitting his diploma. He must be in residence at least one full college year, take all the courses included in the curriculum of the senior year, and pass examinations in each and every subject embraced in the course of that year. He must conform to all the requirements for graduation required of students of this college.

Fees and Expenses.

All fees and charges are payable at the College office, and should be paid to the Treasurer, or his authorized representative. Each student, before he can register, will be charged a matriculation fee of $5.00, which is payable only once during the course. In addition, a fee of $100.00 will be charged for the First year, and $125.00 for each of the remaining four years. This is payable at the beginning of each college year. If paid in installments, the fee for each semester of the First year will be $60.00, and for each semester of each of the remaining four years the fee will be $85.00, payable at the beginning of each semester. A fee of $25.00 is charged for the various laboratories of the last four years of the course. There is no additional charge for the laboratories of the First year. Each student is required to deposit at the beginning of each college year a general breakage fee of $5.00. At the close of the year the cost of breakage which can not be traced directly to any individual or individuals

will be deducted from the breakage fund on deposit and the balance returned to the student. If at the end of the College year a student shall have left unpaid any portion of his tuition fee, or any other expenses he may have incurred, he will not be considered in good standing. If he is a candidate for the degree, he will not be admitted to the graduating class; or, if he is a member of one of the four lower classes, his grades will be withheld and no certificate of attendance will be issued to him until he shall have discharged all his indebtedness to the school.

A student who has paid his tuition fee and for good reason is unable to complete the session, will be given credit for the amount, and upon his return to the school at some subsequent time he will not be required to pay the same fee a second time.

Summary of Expenses.

Matriculation fee (payable but once)	$ 5.00
Tuition fee, First Year	100.00
Tuition fee, Second Year	125.00
Laboratory fees, Second Year	25.00
Tuition fee, Third Year	125.00
Laboratory fees, Third Year	25.00
Tuition fee, Fourth Year	125.00
Laboratory and Clinic fees, Fourth Year	25.00
Tuition fee, Fifth Year	125.00
Clinic and Examination fee, Fifth Year	25.00

Special Notice.

Nearly all State Board of Medical Examiners now require that a candidate for registration present documentary evidence of his preliminary education, together with his medical diploma for eligibility to take the examination.

Inasmuch as the preliminary requirements for the study of medicine and for the registration of physicians vary somewhat in the different states, it is particularly enjoined upon students to conform in all respects to any *special regulations* governing admission to medical practice in the state in which they intend to reside. The College reserves the right to increase its entrance requirements to conform to new requirements that the various State Boards of Medical Examiners may make from time to time. The College also reserves the right to refuse admission to any student whenever it appears to the Trustees that this is

advisable, or to sever connection of any student with the school at any time, if the interests of the school will be served by so doing.

Course at Valparaiso.

The first three years of the medical course are also given at Valparaiso. Students matriculating in the medical department of Valparaiso University elect whether they will take the work at Chicago or Valparaiso. The courses are identical and therefore transfer from one city to the other may be made at the end of any year. The names of the students in attendance at Valparaiso are contained in the lists of students published in the catalogue of the Chicago College of Medicine and Surgery. The session at Valparaiso begins on September 19, 1916.

Curriculum.

The entire course has been organized into the following departments and divisions:

I. Anatomy, Histology and Embryology.
II. Chemistry.
III. Physiology.
IV. Materia Medica and Pharmacology.
V. Pathology and Bacteriology and Hygiene.
VI. Medicine, including the Divisions of
    1. General Medicine.
    2. Pediatrics.
    3. Neurology and Psychiatry.
    4. Dermatology and Syphilology.
    5. Jurisprudence, Ethics and Economics.
    6. Roentgenology.
VII. Surgery, including the Divisions of
    1. General Surgery.
    2. Orthopedic Surgery.
    3. Urology (Genito-urinary Surgery)
    4. Ophthalmology.
    5. Rhinology, Laryngology and Otology.
VIII. Obstetrics.
IX. Gynecology.
X. Therapeutics and Public Health.

Department of Anatomy.

COURSE I—Osteology and Syndesmology. Four hours a week. *128 hours*

First Year—*First Semester*—Description of all bones except those of the head.

Second Semester—Bones of head and articulations.

COURSE II.—Second Year—Laboratory. *320 hours*

First Semester—One-half class dissecting upper extremity. This includes muscles, arteries, veins and nerves of the head, neck, upper extremity and thorax and viscera, i. e., all above the diaphragm. Second half of class dissecting all below the diaphragm.

Second Semester—Classes change.

Cross sections will also be used during this year.

COURSE III—Third Year—*First Semester*—Anatomy of the nervous system. *96 hours*

Sixty-four hours didactic and 32 hours laboratory. The course in neurology embraces the following: The nervous system, central and peripheral, including the sympathetic; its evolution and embryology; its structure, relations and functions; its division into somatic, visceral and correlating elements; the distinction between the two parts of the visceral system—the craniosacral and the thoraco-lumbar; dissection of the human brain and of the peripheral nerves, with sketches, outlines and theses on the same.

Neurones—multipolar and bipolar, and the embryologic determinant; their phylogeny and ontogeny; their histology—the cytoplasmic and karyoplasmic constituents and their changes under stimulation, the axone, dendrites and end-organs of both somatic and visceral neurones; their polarity, specificity, nutrition, degeneration and regeneration; and the supporting epiblastic and mesoblastic tissue. The architecture of functional regions of the brain with their diagnostic features; and the afferent, efferent, associative and commissural systems connected with them. The grouping of neurone bodies, outside the central axis, into sympathetic, sensory and mixed ganglia; and, within the brain and cord, into nuclei—genetic and terminal, somatic and visceral, together with their cortical, simple and coordinated reflex connections; the building up and correlating of reflex mechanisms; a study of the protopathic and epicritic exteroceptors, the proprioceptors, the interoceptors, and the laws governing conduction through common first order afferent neurones;

the specificity of second order afferent neurones and the law of integration.

A tracing of all the well-known afferent, efferent and reflex paths. Identification of the anatomic basis of monoplegias, hemiplegia completa, hemiplegia alterans, in its various forms, the different varieties of hemianopsias, anesthesias, analgesias and other dissociations, aphasia, agraphia, apraxia, agnosia, etc., etc.

COURSE IV — Third Year — *Second Semester* — Applied anatomy. *64 hours*

Applied anatomy will include landmarks, topography of abdomen (with description and relation of viscera to each other and to the parietes), peritoneum, neck, axilla, thorax, Scarpa's triangle, Hunter's canal, popliteal space, femoral canal, inguinal canal, spinal column and cord; male and female genitalia, perineum, nasal fossae, orbit and eyeball, ear; relations of the large arteries and veins, and locations of lymph nodes; thoracic duct, ductless glands, salivary glands, joints and bursae. The cadaver and moist and dry preparations will be used for study and demonstration.

COURSE V—First Year—*First and Second Semester*—Histology. Didactic. *32 hours*

Second Year—*First Semester*—Laboratory *96 hours*

Histology includes instruction in technic, use of the microscope and preparation and study of tissues, the student preparing his own specimens. Histology of the various organs is considered, including some gross dissections and study with the microscope. The work in this department is facilitated by the use of lantern slides, photomicrographs and the projection microscope.

COURSE VI—Second Year—*Second Semester*—Embryology. Didactic, 32 hours; laboratory, 48 hours. *80 hours*

Embryology—Lectures on this subject will include the following: Maturation, segmentation and formation of the fetal envelope and organological differentiation. Emphasis is placed upon the development of the circulatory, urogenital and nervous systems.

Laboratory work consists of the study of chicken (32 hours) and pig embryos. The forms and positions of the embryonic structures are emphasized and enough of their histology to understand their meaning in development. (48 hours.)

Department of Physiology.

COURSE I—Second Year—*First Semester*—The first course of lectures given in the second year of the medical course includes the physiology of the circulating media, blood and lymph, and the physiology of the circulatory mechanism and of respiration.

Lectures and recitations, three hours per week. *48 hours*

COURSE II—Second Year—*Second Semester*—This course embraces lectures on the secretions of the body (skin, kidneys, alimentary canal), absorption, metabolism and animal heat.

Lectures and recitations, three hours per week. *48 hours*

COURSE III—Second Year—*Second Semester*—The laboratory work in physiology begins in the second semester of the second year. It includes the laboratory work pertaining to the subjects discussed in lectures and recitations during the year. Special attention is devoted to those experiments which the student can solve on the human body. Careful compilation of the results of the experiments is required.

Laboratory work, four hours per week. *64 hours*

Quiz—*Second Semester*—One hour a week. *16 hours*

COURSE IV—Third Year—*First Semester*—The last course of lectures, given while the student is finishing his study of the anatomy of the nervous system, comprises the physiology of muscles, nerves, sense organs and central nervous system.

Lectures and recitations, three hours per week. *48 hours*

COURSE V—Third Year—*First Semester*—Accompanying the lectures of Course IV, the laboratory work for this semester includes the study of muscles, nerves and sense organs.

Laboratory work, four hours per week. *64 hours*

Quiz—*First Semester*—Two hours a week. *32 hours*

Department of Materia Medica and Pharmacology.

The instruction in this department aims to give an exact knowledge of the physiological action of drugs and their application to the treatment of diseases.

Research in the laboratory and at the bedside has given a more exact knowledge of drug action, and thereby established a practical and purely pharmacological classification. The advancements made in the science of pharmacology have revolutionized the methods of teaching; the student can no longer depend on the old style textbooks of materia medica and therapeutics, because of their variance with modern ideas.

No attempt is made to cover the entire materia medica, but selections are made from the group of drugs having a recog-

nized action and of known therapeutic value. A certain amount of didactic work is still necessary, but the instruction in this department is given along modern methods, with particular attention to experimental work, demonstrations, laboratory, conferences and clinics.

COURSE I—Materia Medica—First and Second Years—Lectures and recitations. One hour a week first and second semesters. *32 hours*

A course devoted to the study of the source, constituents, chemical and physical characters of the more important drugs used in the practice of medicine.

Second Year—Quiz—One hour a week. *32 hours*

COURSE II—Systematic Pharmacology and Toxicology—Third Year—*First Semester.*

Lectures and recitations. One hour, four times a week. *64 hours*

A course in the effects of physical and chemical agencies on living organisms, dosage and methods of administration, symptoms and treatment of poisoning.

COURSE III — Experimental Pharmacodynamics — Third Year—*Second Semester.*

A laboratory course. Three hours twice a week. *96 hours*

The class is divided into small sections of two to six, and each set is provided with the proper apparatus for the study and experimentation to illustrate the action of drugs. The first part of the course is devoted to methods of physiological standardization of drugs and experiments on frogs and intact animals. This tends to introduce the student to the more important part of the course, which consists of operative work on mammals. Each set performs experiments on warm-blooded animals in the same direction, but by modified methods or with different drugs, illustrating the methods of pharmacologic experimentation and action of drugs.

ELECTIVE

COURSE VI—Special Experimental Pharmacodynamics.

Hours to be arranged. Advanced work in pharmacology. This course is intended to take up somewhat intensively a special field in pharmacology.

COURSE VII—Research in Pharmacology.

Hours to be arranged.

This course will be open to such students who have special qualifications and interest in the subject. Original investigation either under the staff or independently will be encouraged.

Department of Therapeutics and Public Health.

COURSE I — General Therapeutics—Fourth Year — *First Semester*

Lectures and recitations. Two hours a week. *32 hours*

Each drug or group is studied in detail, giving conditions in which drugs are rationally indicated, or in which empirical use has been found of value. Class drills in prescription writing, methods of using and prescribing treatment in hypothetical cases.

COURSE II—Special and Clinical Therapeutics—Fourth Year —*Second Semester.*

Clinic and conference. Two hours a week. *32 hours*

A practical course demonstrating the action of drugs to small sections at the bedside, with discussion of drugs indicated in the given cases and a class conference in the clinical amphitheater.

COURSE III—Public Health and Sanitation—Fifth Year—*Second Semester.*

Two hours a week, lectures and conferences. *32 hours*

Department of Chemistry.

The work in the Department of Chemistry is presented mainly from a laboratory standpoint supplemented by lecture demonstrations and quizzes. An intelligent understanding of the principles of the science is more regarded than the memory of discrete facts. The work is systematically planned throughout, and is carefully correlated with that in the Departments of Physiology, Pharmacology, General Pathology, Hygiene and Public Health, Medicine, etc. It is attempted to present in a systematic and pedagogical manner the most practical principles of the science of modern chemistry in their relation to modern medicine.

The chemical laboratories are equipped with compressed air, distilled water, steam baths, fume closets, Kjeldahl digesting and distilling racks, colorimeters, spectroscopes, polariscope, centrifuges, fat extraction apparatus, drying ovens, incubators, Bechmann freezing point apparatus, combustion apparatus, analytical balances, etc., etc. The individual equipments in organic and physiological chemistry include over one hundred pieces of apparatus, such as condensers, separatory funnels, thermometers, Kjeldahl glassware, Soxhlet extraction apparatus, volumetric flasks, volumetric pipettes, burettes, dessicators, and a full line of apparatus for quantitative work in metabolism and the quantitative analysis of food, plant and animal tissues, stomach contents, milk, water, urine, feces, etc., according to the most

accurate, rapid and recent methods. The equipment is also adapted to the qualitative and quantitative detection and determination of those drugs and poison of toxicological and therapeutic interest.

COURSE I—First Year—*Two Semesters.* Inorganic Chemistry.

The general principles of modern INORGANIC CHEMISTRY are clearly presented from a thoroughly scientific standpoint by means of carefully selected laboratory experiments supplemented by lecture demonstrations and quizzes. Some of the more important principles of elementary physical chemistry are included. The course throughout is specifically adapted to the requirements of medical students. It includes a study of the more important chemical elements, the general laws of chemistry, the kinetic-molecular and atomic theories, the general properties of gases and solutions (including colloidal and course suspensions), the laws of diffusion and osmotic pressure, the principles of chemical and physical equilibria, the theory of ionization, the electron theory, radioactivity, etc. Qualitative analysis is presented from a theoretical and practical standpoint, with special reference to those inorganic substances of toxicological and therapeutic interest.

The course runs throughout the year and includes 96 lecture demonstrations, 192 laboratory hours, and written and oral quizzes. In addition, quizzes are given. *288 hours*

COURSE II—Second Year—*First Semester.*

The general principles of elementary *organic chemistry* are systematically presented by means of laboratory experiments, lectures and quizzes. The more important general properties of the main classes of aliphatic and aromatic compounds are studied. Those particular substances of most importance physiologically and pharmacologically are presented as typical of the classes to which they belong. The laboratory course is designed to familiarize the student with the most important reactions of these typical compounds, and to give him experience in the technic of the more important general operations in the handling of organic substances. The course is essentially introductory to that in Physiological Chemistry in the next semester, to the elective course in Toxicology scheduled below, and to the course in the Chemistry of Synthetic Drugs which immediately follows.

It consists of 32 lectures, written and oral quizzes, and 64 laboratory hours. *96 hours*

The course in *Organic Chemistry* is followed in this semester by a course of 16 lectures and quizzes on the Chemistry of Synthetic Drugs. *16 hours*

COURSE III—Second Year—*Second Semester.* Physiological Chemistry.

The chemistry of carbohydrates, fats, proteins and allied substances is studied in more detail. It also includes the chemistry of animal and plant tissues, of foods, of the various secretions and excretions, and of the processes and products of digestion, absorption, metabolism, etc. Not only the physiological chemistry, but the chemical pathology of these processes is considered. The laboratory course includes work in volumetric and gravimetric analysis; the quantitative analysis of stomach contents, feces, milk, blood and urine, according to the most practical, rapid, accurate and recent methods; numerous illustrations of the processes of digestion and the conditions influencing digestion; a study of normal metabolism involving complete analyses of urines on various diets; and a study of pathological metabolism, including the analysis from a clinical standpoint of numerous samples of pathological urines.

The course is carefully correlated with those offered in the departments of Physiology, Pharmacology, General Pathology, Clinical Diagnosis, Medicine, etc.

Lectures, 64; written and oral quizzes; laboratory, 96 hours. *160 hours.*

Department of Pathology, Bacteriology and Hygiene.

COURSE I—BACTERIOLOGY—Third Year—*First Semester.* Didactic work, two hours per week. *32 hours*

This is a lecture and recitation course, and embraces a general consideration of the subject of bacteriology, including bacterial and parasitic causes of disease, principles of immunity, preparation and uses of serums, antitoxins, bacterins, etc. This course is illustrated with lantern slides, bacterial cultures and tissue specimens, illustrating the pathological conditions under discussion.

COURSE II—BACTERIOLOGY, LABORATORY—*First Semester*—Six hours per week. *96 hours*

The laboratory course includes the preparation of culture media, the cultivation and study of the more common non-pathogenic and pathogenic organisms, and a thorough training in the technic of bacteriological methods. Careful attention is given to the bacteriological examination of pus, sputum, urine, feces, water, milk and foods. Animal inoculations are made to illustrate the more common pathological conditions resulting from bacterial infection.

COURSE III—HYGIENE—*Second Semester.*

This is a lecture course, two hours per week. *32 hours*

The subject of hygiene is treated from the personal, domestic and public standpoints. Personal hygiene includes the development and care of the body, the effects of food and exercise, and the proper care of the skin and alimentary tract. Domestic hygiene treats of the problems of soil and water supply with sewage disposition, the disposal of garbage, care of milk and food stuffs, disinfection of rooms after infectious diseases and the disinfection of body discharges. The consideration of public hygiene includes measures for the prevention and spread of infectious diseases, and the means necessary to prevent the spread of disease by water, milk, food stuffs, sewage, insects and carriers. Quarantine observances and regulations are considered in the light of our present knowledge of the spread of disease and disease prevention.

COURSE IV—PATHOLOGY. Didactic work three hours per week. *96 hours*

In this course the subject of general pathology is first considered in lectures, supplemented by thorough quizzes. Lantern slides and gross and microscopic specimens are used to illustrate the principal phases of the subject. After a thorough consideration of general pathology, the subject of Special Pathology is considered. This course is also illustrated as above.

COURSE V—PATHOLOGY, LABORATORY—Six hours per week. *192 hours*

In this course special attention is given to the preparation of the pathologic tissues for microscopic examination. The student receives sections of the pathological conditions to be considered. These are mounted and studied microscopically and the student is required to make drawings of the specimens studied. Gross specimens and fresh material are examined in the same careful manner. Many of the tissues examined in the laboratory are specimens obtained in the autopsies as given in Course VI. In this way the gross and microscopic characteristics of the lesions are studied and correlated.

COURSE VI—AUTOPSIES—*Second Semester*—Two hours per week. *32 hours*

The class is sectioned and post-mortem technic is carefully considered, and more complete examinations are made than are possible in the ordinary hospital and private post-mortem. Following this, post-mortems as thorough as possible are held, and the student is required to attend at least ten autopsies (20 hours)

and he is required to hand in his book of records for examination before receiving credit in the subject.

COURSE VII—SEROLOGY—Third Year—*Second Semester.* *16 hours*

Department of General Medicine.

COURSE I—Third Year—*Second Semester.*

This is a course in normal physical diagnosis and consists of lectures and recitations, supplemented by exercises in the examination of the normal organs by palpatation, auscultation, inspection, and exercises in history-taking. Four hours per week. *64 hours*

COURSE II—Fourth Year—*First and Second Semesters.*

Recitations and conferences in medicine, according to outline method. Three hours per week. *96 hours*

COURSE III—Fourth Year—*First and Second Semesters.*

This is a clinical course in general medicine in which the methods of diagnosis and the correlation of the symptoms and pathological conditions are emphasized. As nearly as possible the presentation of cases will be made to harmonize with the consideration of subjects in Course II. Clinics, ward walks and bedside work in small sections. *96 hours*

COURSE IV—Fourth Year—*First and Second Semesters.*

This is a clinical course in physical diagnosis in which the principles set forth in Course I are illustrated by normal and abnormal cases. Five hours per week in small sections. *16 hours*

COURSE V—Fifth Year—*First and Second Semesters.*

This is a lecture and recitation course covering the subject of general medicine, and is in part a review of Course II. Two hours per week. *64 hours*

COURSE VI—Fifth Year—*First and Second Semesters.*

This is a clinical course. Patients will be assigned to one or two students, who will make a complete examination and present the case with a history, physical examination, pathological findings, and diagnosis and treatment outlined, for the suggestions and criticism of the clinician. Section work: Twelve hours per week. *192 hours*

COURSE VII—Fourth and Fifth Years—*First and Second Semesters.*

This is a dispensary course, the class being divided into small sections. *60 hours.*

COURSE VIII—Fifth Year—Bedside clinics and ward walks in small sections.

COURSE IX—Fifth Year—Two hours a week are devoted to the special study of tropical diseases and preventive medicine. *64 hours*

Department of Pediatrics.

The course in Pediatrics consists of lectures, recitations and clinics.

COURSE I—Fourth Year—*First and Second Semesters.*

Lectures and recitations on infant feeding, diseases of the alimentary tract, diseases of the chest, and other diseases peculiar to infants. Two hours per week. *64 hours*

COURSE II—Fifth Year—*First and Second Semesters.*

This is a clinic course supplemented by lectures. Typical cases will be assigned to the hospital, where they may be followed closely in all their developments. Two hours per week. *64 hours*

COURSE III—Fourth and Fifth Years.

Instruction to small sections of the class in the Dispensary. *30 hours*

Department of Neurology and Psychiatry.

COURSE I—Fourth Year—*First and Second Semesters.*
Quiz and lecture course. Two hours a week. *64 hours*

COURSE II—Fourth Year.
Dispensary clinic, for two hours, three mornings a week. *16 hours*

COURSE III—Fourth Year—*First and Second Semesters.*
Clinic at West Side Hospital, one hour a week, in sections. *8 hours*

COURSE IV—Fifth Year—*First and Second Semesters.*
Clinics in neurology, four hours a week. *64 hours*

COURSE V—Fifth Year.
Dispensary clinic, for two hours, three afternoons a week, for 3 weeks. *14 hours*

COURSE VI—Fifth Year.
Psychiatry lectures, one hour a week. *16 hours*

COURSE VII—Fifth Year.
Didactic work, one hour a week. *16 hours*

Department of Dermatology and Syphilology.

Instruction is given by clinics, didactic lectures and systematic training in the methods of diagnosis and of treatment.

Students are required to make themselves proficient in general methods of diagnosis, and by constant practice and observance to familiarize themselves with the chief characteristics of the common diseases of the skin.

COURSE I—Fourth Year—*First and Second Semesters.*

Didactic lectures on the anatomy and physiology of the skin, symptomatology, general pathology, diagnosis and therapeutics, followed by a systematic course in special dermatology. One hour per week. *32 hours*

COURSE II—Fourth Year—*First and Second Semesters.*

Dermatological clinic. Demonstration of cases of skin diseases, including syphilis. One hour per week. *32 hours*

One hour per week for one semester. *16 hours*

COURSE III—Fourth and Fifth Years.

Dispensary clinic. Class in small sections. Six hours per week for three weeks in each year, three days a week, two hours each. 16 hours. *30 hours*

Department of Medical Jurisprudence and Ethics.

Fifth Year—*First and Second Semesters.*

This is a lecture course. It is aimed to outline clearly to the student the general principles relating to the legal rights and duties of the practitioner. Various medico-legal questions will be considered, including the laws and opinions upon many common cases. The legal phase of questions pertaining to toxicology will be treated at length, from the practitioner's standpoint. Lectures one hour per week. (Medical Jurisprudence, 24 hours; Ethics, 8 hours.) *32 hours*

Department of General Surgery.

COURSE I — SURGICAL PATHOLOGY — Third Year — Four Hours per Week—*Second Semester.* This is a laboratory and recitation course on the subjects of pathology and bacteriology in their surgical relations. Laboratory and museum specimens and fresh specimens from the various surgical clinics will be studied macroscopically and microscopically. *64 hours*

COURSE II—MINOR SURGERY—Third Year—Two Hours per Week—*First Semester.* This is a practical and didactic course in bandaging, making and applying various types of plaster casts and practical surgical appliances. *32 hours*

COURSE III—Fourth Year—PRINCIPLES OF SURGERY—Three Hours per Week—*First and Second Semesters.* This is a didactic course. The first semester, the principles of surgery, with tumors and cysts, will be considered. The second semester,

the general surgical consideration of the heart and blood vessels and lymph structures, diseases of the nerves, muscles, bones and joints. Also the general and detailed consideration of fractures and dislocations. *96 hours*

COURSE IV—CLINICAL SURGERY—Fourth Year. This course will be given to groups of students in the regular hospital surgical clinics. The work will be practical and consist largely of the demonstration and treatment of minor surgical cases. *160 hours*

COURSE V — OPERATIVE SURGERY AND EXPERIMENTAL SURGERY—Fourth Year.

(A) The first part of the course consists of class and individual demonstrations on the cadaver. The following operations are performed by the student: Drainage of the principal joints; ligations of all the principal arteries and location of their surgical relations; all important amputations; cerebral topography; craniectomy; mastoid operations and tracheotomy; lumbar puncture; rib resection, etc. *32 hours*

(B) Six hours weekly. *12 hours*

This course is a practical course on the abdominal walls and the abdominal contents of lower animals. It consists of the various abdominal incisions, intestinal anastomoses, drainage of the gall-bladder, etc. *12 hours*

COURSE VI—Fifth Year—Two Hours per Week—*First and Second Semesters.* Didactic course. The topics taken up in this course will be those covering the surgery of the central nervous system, the skull and spinal column. The surgery of the head, neck and upper extremity, the thorax, and surgery of the abdomen and its contents in detail. The affections of the lower extremities. *64 hours*

COURSE VII—Fifth Year—*First and Second Semesters.* This is a clinical course in major surgery, and is taught to small groups in the regular hospital surgical clinics. The clinical surgery of the various regions of the body will be given special attention for regular periods in the surgical demonstrations at the regular surgical clinics. *232 hours*

COURSE VIII—Fourth and Fifth Years—Section clinics in dispensary. *60 hours*

Department of Orthopedic Surgery.

FIFTH YEAR—*First Semester*—Three hours per week—2 hours didactic and 1 hour clinic. *48 hours*

Second Semester—Two hours per week, divided equally between didactic and clinical work. *32 hours*

Third Semester—Summer—One hour per week clinics. (Optional.)

The didactic course comprises a short review of general orthopedic surgery, making the student acquainted with the special orthopedic surgical methods and a systematic course in etiology, pathology, symptoms and treatment of the various congenital, paralytic, inflammatory, static and traumatic deformities. In the clinics, a short review of the history, symptoms, diagnosis, treatment—indications and contra-indications, etc.—of every case will be given, the operation performed or treatment carried out; every case will be followed up for several months so that the student has a chance to control the efficiency of the treatment.

Department of Genito-Urinary Diseases.

COURSE I—Fourth Year—*First and Second Semesters*—This course consists of recitations and demonstrations on all diseases of the sexual and urinary organs, including the surgical diseases of the ureters and kidneys. Special attention will be given to the surgical treatment of genito-urinary diseases, including demonstrations with the cystoscope and urethroscope. One hour per week. *32 hours*

COURSE II—Fourth Year—Operative and diagnostic clinic, in sections, two hours per week. *32 hours*

COURSE III—Fourth and Fifth Years—Dispensary clinics in small sections. *30 hours*

Department of Ophthalmology.

The course in Ophthalmology is especially designed for detailed practical value to the general practitioner. Its object is two-fold:

First: To thoroughly prepare the student for diagnosis and treatment of general eye diseases, comprising the use of the ophthalmoscope to determine fundus changes, and to recognize intraocular lesions. Also to familiarize the student with the use of the retinoscope in determining and correcting errors of refraction.

Second: To recognize ocular changes which are not primarily eye diseases, but are preceding symptoms of serious pathological changes taking place in some remote organ.

Special attention is given to the use of the ophthalmoscope and to the diagnosis of the intraocular changes and the relation

of fundus lesions to general diseases. As far as possible, practical instructions in the use of the retinoscope will be given, thus enabling the student to determine objectively errors of refraction. All operations will be demonstrated in the clinic room or at the Frances Willard Hospital.

COURSE I—Fifth Year—*First and Second Semesters.*

The work will consist of didactic lectures and recitations on histology, anatomy, physiology and general diseases of the eye. The *first* part of the *first* semester will be given to the histology, anatomy and physiology. The *latter* part of the *first* semester and the *second* semester will be devoted to general diseases of the eye, with diagnosis and treatment, comprising in all thirty lectures and recitations. *32 hours*

COURSE II—Junior (16 hours) and Senior (28 hours) instruction will be given to the respective sections of the classes in the Dispensary or at the Frances Willard Hospital. This work comprises a review of the anatomy and physiology of the eye, and a clinical examination of cases by the students. A proper correction of their diagnosis and treatment will be made in external diseases, fundus lesions, operations and refraction. *44 hours*

Department of Rhinology, Laryngology and Otology.

The work of this department consists of lectures, recitations, examinations of patients in the dispensary and operative clinics.

COURSE I—Fifth Year—*First and Second Semesters*—This course consists of lectures, recitations and quizzes on the anatomy, physiology and diseases of the nose and throat. One hour per week. *32 hours*

COURSE II—Fifth Year—*First Semester*—This course consists of lectures, recitations and quizzes on the anatomy, physiology and diseases of the ear. One hour per week. *16 hours*

COURSE III—Fourth and Fifth Years—*First and Second Semesters*—This course consists of dispensary clinics in diseases of the nose, throat and ear. Fourth Year, 16 hours; Fifth Year, 28 hours. *44 hours*

COURSE IV—Fifth Year—This course consists of operative clinics in diseases of the nose, throat and ear. *80 hours*

Each student must provide himself with the following instruments: Head mirror, laryngeal mirrors, tongue depressor, nasal speculum, ear specula, applicators, nasal dressing forceps.

Department of Gynecology.

COURSE I—Fourth Year—*First Semester*—Recitations: Anatomy, physiology, deformities and displacements of vulva, vagina and uterus; inflammation of vulva, vagina and uterus; disturbances of menstruation; tumors of vulva, vagina and uterus; urogenital and intestino-genital fistulae. *32 hours*

COURSE II—Fourth Year—*Second Semester*—Recitations: Prerequisite Course I. Diseases of uterine tubes, diseases of ovaries, diseases of pelvic cellular tissue and pelvic peritoneum. *32 hours*

COURSE III—Fourth Year—Laboratory course (sections of the class). Macroscopic and microscopic pathology of tissues removed during clinics. *16 hours*

COURSE IV—Fourth Year—*First and Second Semesters*—Dispensary clinics; in sections. *28 hours*

COURSE V—Fifth Year—*First and Second Semesters*—Dispensary clinics in sections. Prerequisite Courses I and II. *32 hours*

COURSE VI—Fourth Year—Clinical course in sections at St. Mary's of Nazareth Hospital. *32 hours*

COURSE VII—Fourth Year—Clinical course in sections at the West Side Hospital. *32 hours*

COURSE VIII—Fifth Year—*First and Second Semesters*—Hospital clinics; semesters 1 and 2. Prerequisite Courses I, II and III. Two hours a week. *32 hours*

Department of Obstetrics.

A graduated course of instruction in this department is afforded to Fourth and Fifth Year students by didactic and clinical lectures, recitations, demonstrations and exercises on the manikin and the conduct of labor cases in the homes of the patients and in the hospital, under the guidance of experienced teachers. The student has an opportunity of witnessing practically every obstetrical operation and of assisting in many of them as well as performing all of them on the manikin, in the course of the work undertaken in this department.

COURSE I—Fourth Year—*First and Second Semesters.*

This is a lecture and recitation course. The physiology of pregnancy, labor and the puerperium is studied mainly by reference to a standard text book and the work completed by quizzes and lectures to students in small sections. The manikin is freely used. Three hours per week. *96 hours*

COURSE II—Fifth Year—*First and Second Semesters.*

This is mainly a recitation course. The necessity of close application to the text book assigned is emphasized and explanatory lectures are employed. The work includes all sections of pathological obstetrics as well as obstetrical surgery in which the manikin is freely used by each student. Three hours per week. *96 hours*

COURSE III—Fifth Year—Practical Obstetrics.

Attendance on at least ten obstetrical cases is necessary for a student to qualify for graduation and to become eligible as a candidate for the various state board examinations. For the purpose of carrying out this work the College maintains an outpatient department where the student has direct charge of confinement cases under the guidance of an experienced obstetrician. The obstetrical department of the Frances E. Willard Hospital is also available for this purpose and many major obstetrical operations are shown to the entire senior class in the amphitheatre of this hospital.

German.

The course in German is designed especially to familiarize the student with the vocabulary of Medical German not ordinarily taught in the Standard College Course. The instructions consist of the necessary principle of grammar, exercises, translations and such practical conversations as a doctor might encounter in his general practice; so that not only a reading knowledge of German is imparted, but also a special training, enabling the student to converse with German patients and question them intelligently regarding their present and past conditions. Four hours a week throughout the year. *128 hours*

Biology.

The instruction in biology consists of didactic and laboratory work. It embraces a study of the morphology, physiology and life history of invertebrate animals, and the comparative anatomy and physiology of vertebrate animals. Special attention is given to parasitic protozoa and vermes, and to insects which act as carriers of disease and have a relationship to human pathology.

Didactic work: Two hours a week..... 64 hours
Laboratory work: Six hours a week..... 192 hours

Total..... 256 hours

Physics.

Instruction in physics consists of a course of lectures and recitations and laboratory work given by a specially learned physicist. The fundamental principles and simpler phenomena of physics are first considered, followed by a study of mechanics, light and heat, electricity and magnetism and selected topics from other divisions of physics so as to cover the entire field of physics. Special attention is given to medical physics, i. e., the application of physics to medicine.

Lectures: Three a week throughout the year.....	96 hours
Laboratory: Six hours a week throughout the year.	192 hours
Total.....	288 hours

CURRICULUM BY SUBJECTS.

	Dispensary	Didactic	Lab'try	Clinical	Total
Physics	...	96	192	...	288
Biology	...	64	128	...	192
German	...	128	...	...	128
Materia Medica	...	64	...	...	
Pharmacology	...	64	96	...	288
Therapeutics	...	64	...	...	
Histology	...	32	96	...	
Embryology	...	32	48	...	800
Anatomy	...	240	352	...	
Chemistry—Inorganic	...	96	192	...	
Chemistry—Organic	...	32	64	...	554
Physiologic	...	64	96	...	
Physiology	...	192	128	...	320
Pathology	...	96	192	...	
Postmortems	...	32	...	...	
Bacteriology	...	32	112	...	512
Serology	...	16	...	...	
Hygiene	...	32	...	...	
Roentgenology	...	16	...	...	16
Anesthesia	...	16	...	...	16
Clinical Diagnosis	...	32	64	...	
Physical Diagnosis	...	64	...	...	716
Medicine	60	230	...	266	
Medical Jurisprudence and Ethics	...	32	...	...	32
Pediatrics	30	64	...	64	158
Nervous & Mental Diseases	30	96	...	64	190
Dermatology	30	32	...	48	110
Surgical Pathology	...	...	64	...	
Minor Surgery	...	32	...	...	
Operative Surgery	...	...	32	...	706
Dog Surgery	...	...	12	...	
Surgery	60	166	...	336	
Genito-Urinary	30	32	...	32	94
Orthopedic Surgery	...	48	...	32	80
Eye	44	32	...	...	76
Ear, Nose and Throat	44	48	...	80	172
Gynecology	60	64	16	112	252
Obstetrics	...	192	...	...	192
Public Health	...	32	...	...	...

CURRICULUM BY YEARS.

Collegiate Medical Year.

	Didactic	Laboratory
Physics	96	192
Chemistry—Inorganic	96	192
Biology	64	128
German	128	...
Materia Medica	32	...
Histology	32	...
Anatomy-Osteology	128	...

Second (Freshman) Year.

	Didactic	Laboratory
Chemistry—Organic	32	64
Physiologic	64	96
Materia Medica	32	...
Histology	...	96
Embryology	32	48
Anatomy	...	320
Physiology	96	64

Third (Sophomore) Year.

	Didactic	Laboratory
Anatomy—Nervous System	48	32
Applied	64	...
Physiology	48	64
Pathology	96	192
Autopsies	32	...
Bacteriology	32	112
Serology	16	...
Hygiene	32	...
Physical Diagosis	64	...
Minor Surgery	32	...
Roentgenology	16	...
Anesthesiology	16	...
Clinical Diagonsis	32	64
Pharmacology	64	96

Fourth (Junior) Year.

	Didactic	Clinics	Laboratory
Surgical Pathology	...	...	64
Gynecology	64	80	16
Genito-Urinary	32	32	...
Medical Jurisprudence and Ethics	32	...	...
Surgery	96	160	...
Medicine	96	106	...
Dermatology	32	48	...
Pediatrics	64	...	...
Obstetrics	96	...	...
Nervous and Mental Diseases	64	...	...
Operative Surgery	...	...	32
Dispensary	...	192	...
Therapeutics	64	...	...

Fifth (Senior) Year.

	Didactic	Clinics	Laboratory
Medicine	70	160	...
Tropical Diseases and Preventive Medicine	64	...	...
Eye	32	...	...
Ear, Nose and Throat	48	80	...
Nervous and Mental Diseases	32	64	...
Surgery	70	176	...
Pediatrics	...	64	...
Gynecology	...	32	...
Orthopedic Surgery	48	32	...
Obstetrics	96	...	...
Dog Surgery	...	...	12
Public Health	32	...	...
Dispensary	...	196	...

First (Premedical) Year.*

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	Anatomy	Materia Medica	Anatomy	Anatomy	Histology	Anatomy
9-10	Biology	Chemistry Inorganic	Biology	Chemistry Inorganic	German	Chemistry Inorganic
10-12	Biology Laboratory	Chemistry Laboratory	Biology Laboratory	Chemistry Laboratory	Biology Laboratory	Chemistry Laboratory
1-2	Physics	German	Physics	German	Physics	German
2-4	Physics Laboratory		Physics Laboratory		Physics Laboratory	

Second (Freshman) Year.*

Semester I.

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	Anatomy**	Materia Medica**	Anatomy**	Anatomy**	Histology**	Anatomy**
9-10	Chemistry Organic	Pharmacology	Chemistry Organic	Pharmacology	Pharmacology	Pharmacology
10-12	Chemistry Laboratory	Histology Laboratory	Chemistry Laboratory	Histology Laboratory	Histology Laboratory	Embryology
1-2	Physiology	Physiology	Materia Medica Quiz.	Physiology	Chemistry Quiz.	Embryology Laboratory
2-4	Anatomy Laboratory					

*Subject of change.
**For 4-year students.

Second (Freshman) Year.* Semester II.

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	Anatomy**	Materia Medica**	Anatomy**	Anatomy**	Histology**	Anatomy**
9-10	Pharmacology	Physiology	Physiological Chemistry	Physiology	Pharmacology	Physiological Chemistry
10-12	Laboratory	Physiology Laboratory	Laboratory	Physiology Laboratory	Laboratory	Laboratory
1-2	Physiological Chemistry	Physiological Chemistry	Physiology	Physiological Chemistry	Physiological Chemistry	
2-4	Anatomy Laboratory					

**For 4-year students only.

Third (Sophomore) Year.* Semester I.

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	Therapeutics	Roentgen-ology	Physiology	Therapeutics	Anesthesia	Physiology Quiz.
9-12	Nervous Anatomy Laboratory Sec. I	Physiology / Physiology Laboratory	Anatomy of Nervous System Sec. I	Physiology / Physiology Laboratory	Anatomy of Nervous System Laboratory Sec. II	Anatomy of Nervous System Sec. II
1-2	Pathology	Bacteriology	Pathology	Bacteriology	Pathology	Bacteriology
2-5	Pathology Laboratory	Bacteriology Laboratory	Bacteriology Laboratory	Bacteriology Laboratory	Pathology Laboratory	Laboratory

*Subject to change.

Third (Sophomore) Year.*

Semester II.

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	Therapeutics			Therapeutics		
9-10	Applied Anatomy	Physical Diagnosis Sec. I 9-11	Applied Anatomy	Applied Anatomy	Physical Diagnosis Sec. I 9-11	Applied Anatomy
10-12	Autopsies C. C. M.	Minor Surgery 11-12	Physical Diagnosis Sec. II	Hygiene	Minor Surgery 11-12	Physical Diagnosis Sec. II
1-2	Pathology	Clinical Diagnosis	Pathology	Diagnosis Clinical	Pathology	(16 hours) Serology 1-3
2-4	Pathology Laboratory	Clinical Diagnosis Laboratory	Pathology Laboratory	Clinical Diagnosis Laboratory	Pathology Laboratory	

*Subject to change.

Fourth (Junior) Year.* Semesters I-II.

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	Medicine †Ward Walk W. H.	Genito- Urinary Diseases	†Chest Clinic C. C. H. Medicine Ward Walk W. H.	Sec. II Gynecology** Clinic W. S. H.	Medical Jurisprudence & Ethics	Chest Clinic† C. C. H. Medicine †Ward Walk W. H.
9-10	Surgery	Surgery	Gynecology	Sec. I Medical Clinic	Surgery	Gynecology
10-12	Sec. II Surgical Clinic W. H. Sec. I ‡Dispensary	Sec. II Surgery Clinic W. H. Sec. I Dispensary	Sec. II Medical Clinic C. C. H. Sec. I Dispensary	Sec. II Surgical Pathology Sec. I Dispensary	Sec. II Surgery Clinic W. H. Sec. I Dispensary	Sec. II A Gynecology Laboratory* Sec. II B Gynecology Diagnosis Clinic* Sec. I Dispensary
1-2	†Chest Clinic C. C. H. St. Mary's Hospital Clinics Sec. I Gynecology 1-3	Pediatrics	Sec. II Surgery Clinic W. S. H.	Pediatrics	Medical Clinic† C. C. H. Sec. I Dermatology Clinic C. C. H.	Dermatology
2-3	Sec. II Medicine Clinic 1-3	Dermatology Clinic	Sec. I Surgical Pathology	Obstetrics	Obstetrics	Obstetrics
3-4	Sec. I Surgery Clinic 3-5	Medicine	Sec. II Genito- Urinary Clinic W. S. H.	Sec. I Medical Clinic W. H.	Medicine	Medicine
4-5		Neurology		Sec. II Surgical Clinic W. H.	Neurology	

Second Semester: Operative Surgery, 32 hours, in sections.

*Subject to change.
**Class divided into 4 sections—8 weeks each.
†Sections of ten students only. Change every week.
‡The dispensary section is divided into 6 subsections.
NOTE—Second semester the sections change.

Fifth (Senior) Year.* Semesters I-II.

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	Psychiatry** Neurology§	Sec. I B Surgical Clinics‡ H. C. H., 8-12 Sec. I A Surgical Clinic‡ W. S. H.	Obstetrics	Nose & Throat	Obstetrics	Obstetrics
9-10	Surgery	Sec. II A Deaconesses Hospital‡ 8-12 Surgery Clinics and Ward Walks	Medicine	Ophthal-mology	Surgery	Medicine
10-12	Sec. I Pediatrics Clinic Sec. II A Surgical Clinic‡ St. A. H. Sec. II B Psychiatry Clinic‡ W. S. H. 11-12	Sec. II B Surgical Clinic C. C. H. Sec. I A‡ W. S. H. Surgery† Ward Walk M. H.	Sec. I Gynecology Clinic, W. H. Sec. II Neurology‡ Clinic P. H. Medical† Clinic H. D. H.	Sec. II Surgical Clinic W. H. Sec. I A Surgical Clinic W. S. H. Sec. I B Medical Clinic	Sec. I Neurology Clinic P. H. Sec. II Surgery Clinic C. C. H. Medical Clinic‡ C. C. H. 11-12	Sec. II Medical Clinic W. H. Sec. I B Gynecology‡ Diagnosis Clinic Sec. I A Surgical Clinic‡ W. H.
1-2	Orthopedic Surgery	Medicine (Alcoholism and Drug Addition)	Sec. I Orthopedic Surgery Clinic W. H.	Public Health	Orthopedic* Surgery	Sec. II Surgical Clinic C. C. H. 1-3
2-3		Eye Clinic at Ill. C., E. & E. Inf.†	Sec. II Medical Clinic St. M. H. 2-4			
3-4	Dispensary. Section I; divided into 7 sub sections. 2-4.					
4-5	Otology* Military Surgery§	Sec. II A E. N. T. Clinic‡ W. S. H. 3-5	Sec. II Ear, Nose & Throat Clinic W. H. 3-5	Sec. II Pediatric Clinic 3-5	Sec. II Ear, Nose & Throat Clinic W. H. 3-5	Sec. II Medical Clinic W. S. H. 3-5
5-6		Sec. I Medical Clinic C. C. H. 4-6			Sec. I Gastro-Enterology Clinic W. H. 3-5	

*Subject to change.
**First semester only. †Sections of eight. ‡Change at end of 8 weeks.
Dog surgery in sections, 12 hrs. each section; hours to be arranged by Dr. Ryan.
§Second semester.
NOTE—Sections change at end of each semester.

HOSPITALS:
W. H.—Willard
W. S. H.—West Side.
C. C. H.—Cook County.
St. A. H.—St. Anthony's.
St. M. H.—St. Mary's.
D. H.—Deaconess.
P. H.—Psychopathic.
M. H.—Maimonedes.
H. C. H.—House of Correction.

Matriculants 1915-16 May-June,

Premedical (First Year) Class.

Name.	State.
Arnold, F.	Ind.
Beatty, L. S.	Ill.
Buxton, B. V.	Ia.
Brody, L.	Pa.
Balcerkiewicz, C. W.	Ind.
Caslow, S.	Ill.
Clark, P. R.	Ill.
*Carlson, S. C.	Ill.
Cohn, A. M.	Ill.
Carnow, A.	Ill.
Chastain, Cleo	Tenn.
Campbell, H. E.	Ill.
Coslett, Floyd	Texas
Crespo, J. E.	P. R.
Doubeck, M. S.	Ill.
Dybalski, J. F.	Ill.
Dearman, A. M.	W. Va.
Elliott, C. A.	Ala.
Edgington, H. W.	Ky.
Fleischner, C. A.	Ill.
Finberg, I.	Minn.
Gorham, L. A.	Ill.
Giese, T.	Ill.
Groner, F. M.	Ill.
Gonzaga, V. J.	P. I.
Grover, E. G.	Ia.
†Harker, M. P. L.	Ill.
Harker, W. C.	Ill.
Hawkins, F. T.	Ga.
Hart, J. C.	Ill.
Jones, C. M.	Ind.
*Krout, M. H.	Ill.
Kostka, H. M.	Ill.
*Koenigsberg, F.	Ill.
*Krol, F. B.	Ill.
Kegebein, L. J.	Ill.
Kaufman, S.	Ill.
Lande, R.	Ill.
Lindberg, A. V.	Mich.
Lichtman, B. W.	Ill.
Lerner, S.	Ill.
Laney, T. D.	Wis.
Miller, A. E.	Mich.
Mader, E. A.	Ill.
Manzanero, F. M.	P. I.
McKinney, J. T.	Tenn.
Massey, W. E.	Texas
Morris, G. E.	Mass.
Matteo, L. R.	Mich.
Norys, S. J.	Ill.
Nesbit, O. J.	Ind.
*Ortlapp, F.	Ill.
Pintozzi, C.	Ill.
Papsdorf, P. G.	Ill.
Prosterman, F.	Ill.
Pool, Rollo W.	Ind.
Rosan, N.	Ill.
Rubin, J.	Ill.
Rayson, E. H.	Mass.
Rotea, F. L.	P. I.
Rolens, M. E.	Ill.
Singer, I.	Ill.
Schusterman, E.	Mich.
Sweatt, L. A.	Me.
Stowell, R.	Ind.
Turner, H. B.	Ind.
Wilhelm, O.	Ill.
Will, A. G.	Ia.
Wota, J. C.	P. I.
Worster, V. K.	Pa.
Wing, C. R.	Wis.
Winn, H. C.	Mass.

*Not in attendance.
†Attended one semester.

Freshman (Second Year) Class.

Name.	State.	Name.	State.
Applebaum, L.	Ill.	Klumpner, Geo.	S. D.
Anshin, M.	N. Y.	Leo, J.	Ill.
Brodsky, J.	Ill.	Marasigan, A.	P. I.
Block, L. J.	Ill.	McClain, F.	Kan.
Bateman, J. J.	Ill.	Medley, S. R.	Wis.
Bishop, N. L.	Ill.	Miller, E. A.	Wis.
Brooks, L. R.	Ala.	Metcalf, J. W.	Ohio
Bertash, A. J.	Ill.	Magarian, L.	Ill.
Bernstein, D.	Ill.	Orzeszynski, P.	Ill.
Button, F. H.	Ohio	Olson, Chas.	Pa.
Becker, C. F.	Ill.	Powers, Glenn	Minn.
Cheetham, J. R.	Me.	Riardon, H. C.	Ill.
Cohn, H.	Ill.	Reingold, M.	N. Y.
Daniel, G. C.	Ky.	Romano, J. R.	Conn.
Fossum, C.	Minn.	Salyer, Kelson	Ky.
Garnitz, B	N. Y.	Socoloff, B.	Ill.
Goldberg, C.	Ill.	Stevens, R. I.	Ga.
House, F. H.	Fla.	Scanlon, Wm.	Ohio
Heisler, W. L.	Ky.	Vickery, L. O.	Ind.
Ivanoff, M.	Russia	Wolinski, E. H.	Ill.
Johnston, E. H.	N. D.	Wonsick, J.	Pa.
†Kaplan, A. H.	Minn.	Ward, B. F.	W. Va.
		Zalatoris, P.	Ill.

Sophomore (Third Year) Class.

Name.	State.	Name.	State.
Adamo, F. S.	Fla.	Conly, J. A.	Mich.
Ash, S.	N. Y.	Colling, T. J.	Mo.
Behla, H.	Alaska	Drummond, D.	Mass.
Bissekumer, R.	Ill.	Dyer, V. L.	W. Va.
Bick, E. M.	N. J.	Evans, W. W.	Ill.
Cintron, F.	P. R.	Fernandez, C. E.	S. A.
Cogger, T. W.	Ill.	Filetti, V.	Ill.
Cook, R. S.	Ill.	Fortelka, F. L.	Ill.
Craft, S. U.	Kan.	Ganyard, F. C.	Ohio
Cunningham, R.	Me.	Gilbreth, G. H.	Ohio
Cordero, J. F.	P. I.	Haag, A. F.	Wis.

†Attended one semester.

Name.	State.
‡Harrison, L.	Miss.
Hediger, Edw.	Ill.
Heiss, H.	Ill.
†Hoag, H. C.	Wis.
Hogshead, R.	W. Va.
Haley, C. O.	Ohio
Houghton, E. M.	Wis.
Hilton, W. E.	Mich.
Jarrett, B. M.	N. C.
*Jarvin, J.	Ill.
Kaplan, J. S.	N. J.
Kramer, F.	N. Y.
Kultus, T.	Ill.
Kadish, B.	Ill.
Lash, A. L.	Ill.
Lund, W. J.	Minn.
Lyon, F.	Ohio
Lando, H.	Mich.
Lyon, F. E.	Ohio
Marble, M.	Ill.
McConnell, L. M.	N. Y.
Miller, A. L.	Neb.
Mott, N. G.	Ga.
Mott, W. C.	Ga.
McAuliffe, J. P.	Ill.
McCaffrey, P. J.	Ill.
Ortego, J.	S. A.
Parowski, V. B.	Ill.
Parsons, E. A.	W. Va.
Pfeiffer, E.	Mich.
Pomrenze, H.	Ill.
Power, J. E.	Minn.
Przgocke, S. F.	Ill.
Potter, B. H.	Ky.
Rombkowski, J. A.	Ohio
Rosenberg, W. A.	Ill.
Rembe, B. C.	Ill.
Rossyn, M. I.	Ill.
Schoon, T.	Ia.
Seale, C. W.	Can.
Showacre, E. C.	Md.
Smith, A. E.	Ohio
Smith, D. D.	Ill.
Smith, H.	Ill.
Sokolov, A.	Ill.
Svechcow, F.	Ill.
Seaburg, E. W.	Ill.
Schumacher, F.	N. Y.
Taylor, A. C.	Ill.
Tichy, L.	Ill.
Tashma, S.	Ill.
White, M. E.	Ill.
Woolson, C.	Minn.
Worley, E.	Utah
Worsley, E. F.	Ill.
Zibelman, F. A.	Ill.

Junior (Fourth Year) Class.

Name.	State.
Armen, (Yeranos) V.	Turkey
Afable, V.	P. I.
Alden, W. I.	Ill.
Allen, G. D.	Can.
Andrus, E. E.	Ind.
Bagby, W. A.	N. C.
Bagocius, D. J.	Mass.
Baker, N. A.	Mich.
Blackburn, G. R.	Pa.
Blackburn, P.	Pa.
Bousa, B.	Ill.
Brackett, L. G.	Ind.
Bartling, D. L.	Neb.
*Berdicia, R. B.	Ill.

*Not in attendance.
†Attended one semester.
‡Deceased.

Name.	State.
Buxbaum, H.	Ill.
Beverley, S. S.	Mich.
Cable, C.	Ohio
Calvin, A. B.	Ill.
Campbell, A. S.	Pa.
Cannon, F. M.	Ariz.
Casserly, E. A.	B. W. I.
‡Cella, F. J.	Ill.
Chouinard, C. R.	Ill.
Chynoweth, W. R.	Ohio
Clayton, H. C.	Ohio
Cohan, S. G.	Ill.
Conway, S. J.	Ill.
Cooney, Wm.	W. Va.
Davenport, J. D.	Ill.
Davis, C.	Ill.
DeFreitas, J. A.	Ill.
Diamondstein, J.	Ind.
Dorzeski, E. F.	Wis.
Dahmer, E. R.	Ill.
Dolnick, M. A.	Ill.
Emery, C. E.	Mont.
Ernst, H. W. C.	N. Y.
Emons, H.	Ill.
Feightner, L. R.	Pa.
Felsher, W. Z.	Ill.
Ferrell, V.	Ill.
Finberg, J.	Minn.
Flesher, R. E.	Mont.
Flint, C. W.	Ill.
Folkowitz, M.	Ill.
Folsom, S. D.	Ill.
Frederickson, G.	Mich.
†Gallagher, S. V.	N. Y.
Gannon, N. D.	Pa.
Geiger, U. S.	Iowa
Gowdy, R. A.	Minn.
Gunning, H.	Wis.
*Glaubitz, B. J.	Ill.
Harrison, C. E.	La.
Hennan, C. W.	Wis.
Halyama, G. E.	Pa.
Hiatt, H.	Ind.
Hershman, M.	Ill.
Hubbell, J. A.	Minn.
Hunter, P. M.	Ill.
Hansen, H. C.	Ill.
Hodes, J. E.	N. Y.
Itzkowitz, M.	Ill.
Izquerdo, E.	Ill.
Hibbe, C.	Ill.
Jerdee, I.	Wis.
Johnston, G. F.	Iowa
Johnston, H. H.	Iowa
Kahn, B.	Ill.
Kaminski, H.	Pa.
Kerr, S.	Ill.
Koraitis, P.	Ill.
Korzenewski, J.	Ill.
Krugmeier, C. E.	Minn.
Kupke, E. H.	Ind.
Lawson, J. C.	W. Va.
Levin, E.	Ind.
Levine, J.	Ill.
Levinthal, D. H.	Ill.
Lewin, A.	Ill.
Liederman, M.	Ill.
Lieffers, H.	Mich.
McDonald, F.	Ill.
MacGregor, D. E.	Ind.
Marland, T. S.	Ill.
Martin, D.	La.
Martini, W. C.	N. J.
Meister, E. E.	Ill.
Moles, J.	Ill.
May, H. F.	Ill.
Narbutt, V. S.	Ill.
Newbauer, H.	Minn.

*Not in attendance.
†Attended one semester.
‡Deceased.

Name.	State.
Niblick, J. S.	Ind.
Nylander, E. G.	Minn.
Newman, A. J.	Mich.
O'Dell, R. O.	W. Va.
O'Connor, P. P.	Mich.
Pangerl, C.	Ill.
Parsons, H. E.	Mo.
Pavia, M.	P. R.
Pelegrina, M.	P. R.
Polischuck, I.	Ill.
Preston, J. C.	Ky.
Probstein, J.	Ill.
Pusch, J.	Wis.
Pederson, C. B.	Ill.
Reinsch, F.	Ill.
Roche, N. J.	Can.
Rohow, F. M.	Wis.
Rowell, C. L.	Ill.
*Rieke, A. G.	Ill.
Sellards, A. G.	Ohio
Smith, C. E.	Ill.
*Schuenzel, W. P. C.	Ill.
Schulz, A. W.	Ill.
Sawyers, G.	Iowa
Schkodnick, G.	N. Y.
Segal, G. M.	Ill.
Shryer, J. L.	Iowa
Shutack, J.	Pa.
Smith, B. J.	N. Y.
Smith, C. E.	Ill.
Spalo, R.	Ill.
Stanton, D.	Iowa
Stewart, L.	Iowa
Swanberg, H.	Ill.
Swinehart, B. O.	Ill.
Schultz, H. L.	Ill.
Stanley, M. V.	Okla.
Samuelevitz, B.	Ill.
Skembare, E. C.	Ill.
Seidner, M. J.	Ill.
Thayer, W. F.	Ill.
Tomkins, H. S.	N. J.
Troupa, A. B	Ill.
Vaughan, B. H.	Ky.
Wallschlaeger, G.	Wis.
Warrick, J. D.	Ill.
Weiss, A.	Ill.
Weissman, D.	Ill.
Weldy, C.	Ill.
Wilson, U. R.	Ind.
Wood, S. H.	Miss.
Worthington, E. J.	Ill.
Whitten, K. M.	Ind.
Weissman, M.	Ill.

Senior (Fifth Year) Class.

Name.	State.
Abramson, B.	Ill.
Adams, M. F.	Minn.
Andrews, F. L.	Ia.
Aron, B.	Ill.
Bair, R. R.	Ohio
Balmer, F. B.	Ill.
Beil, H.	Wis.
Bennett, Z. B.	Mich.
Bergen, J. A.	Ill.
Bernstein, J.	Ill.
Biezes, S.	Ill.
Bishop, E. V.	Ill.
Black, J. M.	Ill.
Blakeman, L. J.	Wis.
Blesse, H. S.	Ill.
Blim, S. P.	Ill.
Boswell, J. T.	Ill.
Bowers, L. L.	Ohio
Bricker, A. E.	Mich.
Brown, F. W.	Ariz.
Box, T. T.	Ala.
Burgner, B. H.	Ill.

*Not in attendance.

Name.	State.
Belau, L.	Ill.
Banerjee, M. N.	India
Casanova, A.	P. R.
Casey, J. A.	Ill.
Cannon, M. P.	Ill.
Collier, L. K.	Ill.
Chmelik, F. J.	Ill.
Cohen, M. A.	Ill.
Chapas, B.	Russia
Carpenter, R. M.	N. Y.
Cloud, H. B.	Ia.
Craft, R. R.	Kan.
Coen, W. W.	Pa.
Costello, W. J.	Conn.
Cunningham, M.	Ill.
Carroll, E. P.	Ill.
Degan, J. T.	Ill.
Dahl, P. M.	Ia.
De Hes, M.	Ill.
Dinsmore, A. J.	Ala.
Denney, R. W.	Okla.
DeGrand, A.	Wis.
Droock, V.	Wis.
Dulak, F. A.	Wis.
Dockery, E. E.	Wis.
De Covsky, A.	Ill.
De Salvo, F.	Ill.
Eichler, T. F.	Minn.
Erman, J. M.	Ill.
Echerer, T. J.	Ill.
Eustice, E. L.	Ia.
Everhart, A. G.	Ohio
Frybarger, C. E.	Ind.
Frybarger, S. S.	Ind.
Ferrell, Z. B.	W. Va.
Font, A. J.	P. R.
Ferrer, J. C.	P. R.
Fink, A. H.	Ill.
Fritchen, A. F.	Wis.
Furusawa, T.	Cal.
Gleason, M. H.	Mont.
Garness, L. A.	S. D.
Gapinski, L.	Wis.
Gittelis, H.	Ill.
Guinea, W. E.	Ill.
Guma, R. O.	Cuba
Graff, J. H.	Mo.
Gause, O. J.	Kan.
Haley, C. R.	Tenn.
Hans, E. E.	Ill.
Hamilton, R. C.	N. D.
Halpert, J. D.	Ill.
Hansen, M.	Mich.
Hammer, W. P.	W. Va.
Heetderks, B.	Mich.
Henkin, H.	Ill.
Hodes, R.	Ill.
Holcomb, A. A.	Mich.
Hollands, A.	Can.
Hopkins, J. J.	W. Va.
Hopkins, P. E.	Ill.
Houchins, E. K.	W. Va.
Hubrig, M.	Wis.
Heider, J. E.	Ill.
Ives, L. C.	Mich.
James, F. T.	Ill.
Jennings, J. B.	Ill.
Jirsa, O. J.	Ill.
Jacobson, G. H.	Ill.
Johnson, R. W.	Ia.
Johnson, J. K.	Ill.
Johnson, T. S.	Ill.
Johnson, W. A.	Ill.
Klontz, C. W.	Ill.
Konopa, J. F.	Ill.
Kwiecinski, E. W.	Mich.
Keenan, T. P.	Wis.
Kulczinski, A.	Ill.
Kaminski, Z. L.	Mich.
Kaminski, L. R.	Mich.
Kvitek, L. C.	Ill.
Kendrick, O. G.	Ga.
Khafagy, A. M.	Egypt
Luce, G. D.	Pa.
Lohman, O.	Ill.
Lopez, A. O.	P. R.

Name.	State.
Luxan, H. J.	Ohio
Litz, S. J.	Ill.
Laugier, J. R.	P. R.
Leef, I. A.	Ill.
Lyons, A. J.	Ill.
Miller, E. B.	Ill.
McNertney, F. D.	Utah
Macnamara, H. P.	Ill.
Mann, S.	Ill.
McArthur, C. H.	Fla.
Maas, D.	Wis.
Malouf, S.	Syria
Marley, L. M.	Ill.
Markson, M.	Ill.
Marowitz, M.	Ill.
Matney, T. G.	W. Va.
Mildren, F. R.	Kan
Miller, J. E.	Ill.
Miller, F. E.	Mass.
Morrill, E. B.	Mass.
Morrison, C. R.	Ill.
Murray, J. H.	Ohio
McCormick, W. C.	Wis.
McDonough, J. M.	Minn.
McCullough, J. D.	Miss.
McKinney, I.	Ill.
McLaughlin, J. W.	Ill.
Miller, W. M.	Ind.
Martin, J. N.	Ia.
Mueller, G. A.	Mo.
Naikelis, S.	Ill.
Napieralski, E. H.	Ill.
Nielsen, C. H.	Ia.
Newman, I.	N. Y.
Nugent, A. C.	Wis.
Nyvall, Y. J.	Minn.
Notbohm, D. R.	Wis.
Odegaard, B.	Minn.
Ogle, H.	Ind.
O'Connor, J. A.	Ill.
O'Grady, G. E.	Mich.
Pellett, W. J.	Wis.
Pindell, M. L.	Ia.

Name.	State.
Panek, A. F.	Mich.
Pathofsky, A.	Ill.
Peabody, H. C.	S. D.
Penchina, M.	Russia
Perkins, L.	Ill.
Peterson, M. B.	Ind.
Platt, O. R.	Neb.
Pietroski, J. C.	Ill.
Price, B. L.	Ill.
Quinn, G. P.	Pa.
Quinn, T. J.	Ill.
Ray, R.	W. Va.
Rentfro, C. C.	Ill.
Rogers, P. E.	Va.
Rollins, F. T.	Ill.
Rotman, D.	Ill.
Rubinstein, J.	Ill.
Rivera, C. L.	P. R.
Reeves, R. W.	Ga.
Ralston, F. L.	Ill.
Stern, J. J.	Ill.
Schnaer, C.	Ill.
Sachnouvitz, M.	Ill.
Saunders, R. H.	Ky.
Serritella, M. A.	Ill.
Schiffli, O.	Ohio
Seaforth, E. A.	Ill.
Schmidt, A. W.	Iowa
Serna, M. A.	Ill.
Shortt, P. E.	Iowa
Silverman, E.	N. Y.
Simon, O. B.	N. D.
Smith, W. J.	Mo.
Solomon, H. S.	N Y.
Solomon, S. I.	N. Y.
Solovay, J.	Ill.
Sorkin, J. J.	N. Y.
Spellman, M.	Minn.
Stephens, E. A.	Pa.
Singer, R. M.	Ill.
Stites, R. O.	Ill.
Slotkovitz, E. H.	Ill.
Summers, A. W.	Ill.

Name.	State.	Name.	State.
Schwartz, F. F.	Ill.	Willstead, O. D.	Ill.
Smith, A. H.	Ind.	Wiseman, H. O.	Ind.
Sandrock, G. P.	Wis.	Wilson, D.	Can.
Savitsky, L.	Ill.	Wilkinson, J. J.	Wis.
Stewart, F. J.	Ill.	Williamson, H. W.	Ohio
Schroeder, L. P.	Mich.	Williams, W. R.	Vt.
Shipley, A.	Ill.	Willett, I. H.	N. Y.
Telerski, J.	Ill.	Witten, H. S.	Ill.
Thompson, J. C.	Ill.	Willits, J.	Ill.
Thomson, H. I.	Fla.	Wright, R. D.	Mich.
Turner, F. C.	Kas.	Wiley, C. R.	Ill.
Tschetter, J. S.	Ill.	Wallace, A.	Ill.
Taylor, A. C.	W. Va.	Werum, P. D.	Ohio
Thomas, E. H.	Can.	Wright, E. L.	Ill.
Tubergen, B. F.	Ill.	Yoffe, S.	Mass.
Van de Sand, G. F.	Wis.	Zilvitis, P. M.	Ill.
Van Slyke, F. H.	Minn.	Zolla, N.	Ill.
		Zaphyriades, S. D.	Greece

Special.

Name.	State.	Name.	State.
Algoth, E.	Ill.	Laird, A. W.	Ohio
Burrows, L. A.	Ill.	Lefkoff, T.	Ill.
Barnett, S.	Ill.	Maxwell, G. E.	Ill.
Bashara, H. A.	Egypt	Magnus, A. B.	N. Y.
Cheek, O. H.	Ga.	Morgenroth, F. C.	Wis.
Collins, H. L.	Ill.	Murphy, O. H.	Ill.
Dale, E. E.	Ill.	McGregor, W. C.	Ill.
Froyd, M. F.	Ill.	Norconck, W. H.	Mich.
Full, L. J.	Ill.	Nex, H.	Mich.
Golden, R. B.	Ga.	Oliver, L. B. E.	Ia.
Gunderson, A.	Ill.	Peak, C. N.	Ga.
Hummon, I. F.	Ill.	Reich, S.	Ill.
Haisfield, A. R.	Ga.	Slivka, J.	Pa.
Jaffe, J.	Ill.	Walkowiak, S. A.	Minn.
Knight, H. E.	Mich.	Wickerham, J. P.	Ind.

Graduates of September, 1915.

Name.	State.	Name.	State.
Banach, Leon	N. Y.	Burke, R. O.	Ill.
Bona, J. J.	Ill.	Czubachowski, J. M.	Mich.

Name.	State.
Danielson, W. A.	Neb.
De Feo, Amos	Ill.
Evans, R.	Ind.
Geehan, M. F.	Colo.
Gregory, J. E.	Ind.
Harkins, J. P.	Wis.
Kern, Max	Galacia
Lando, M.	Mich.
McNevins, E. S.	Wis.
Norman, J. G.	R. I.
Napiantek, W. D.	Mich.
Quitmeyer, J.	Minn.
Quinlan, E. D.	N. Y.
Ritchey, H. C.	Mich.
Selby, C. A.	Neb.
Schram, G. E.	Ill.
Solomon, H. S.	N. Y.
Vella, Salvator	Italy

Graduates of January, 1916.

Name.	State.
Abreu, Rafael	Cuba
Kaminski, Zeno L.	Mich.
Luce, G. D.	Pa.
Zilligen, Aug., Jr.	Ill.

Graduates of May, 1916.

Name.	State.
Abramson, B.	Ill.
Adams, M. F.	Minn.
Andrews, F. L.	Ia.
Balmer, F. B.	Ill.
Burgner, B. H.	Ill.
Bair, R. R.	Ohio
Beil, H. H.	Ill.
Biezes, S.	Ill.
Bennett, Z. B.	Mich.
Berinstein, J.	Ill.
Blim, S. P.	Ill.
Black, J. M.	Ill.
Boswell, J. T.	Ill.
Box, T. T.	Ala.
Belau, L. L.	Ill.
Bricker, A. E.	Mich.
Bowers, L. L.	Ohio
Cerice, Raul Guma	Cuba
Carroll, E. P.	Ill.
Cannon, M. P.	Ill.
Carpenter, R. M.	N. Y.
Casey, J. A.	Ill.
Chapas, B.	Russia
Chmelik, F. J.	Ill.
Collier, L. K.	Ill.
Craft, R. R.	Kas.
Dahl, P. M.	Ia.
De Covsky, A.	Ill.
De Grand, A. J.	Wis.
De Hes, M.	Ill.
Denney, R. W.	Okla.
Dinsmore, A. J.	Ala.
Droock, V.	Wis.
Dulak, F. A.	Wis.
Degan, J. T.	Ill.
Echerer, T. F.	Ill.
Eichler, T. F.	Minn.
Erman, J. M.	Ill.
Eustice, E. L. M.	Ia.
Everhart, A. G.	Ohio
Fink, A. H.	Ill.
Ferrell, Z. B.	W. Va.
Ferrer, J. C.	P. R.
Font, A. J.	P. R.
Fritchen, A. F.	Wis.
Frybarger, C. E.	Ind.
Frybarger, S. S.	Ind.
Furusawa, T.	Cal.
Gittelis, H.	Ill.
Gapinski, L. B.	Wis.

Name.	State.
Garness, L. A.	S. D.
Guinea, W. E.	Ill.
Haley, C. R.	Tenn.
Henkin, H.	Ill.
Heider, J. E.	Ill.
Hamilton, R. C.	N. D.
Hammer, W. P.	W Va.
Hans, E.	Ill.
Hansen, M. M.	Mich.
Heetderks, B. J.	Mich.
Hopkins, P. E.	Ill.
Hodes, R.	Ill,
Holcomb, A. H.	Mich.
Hopkins, J. J.	W. Va.
Houchins, E. K.	W. Va.
Hubrig, M. H.	Wis.
Ives, L. C.	Mich
Johnson, R. W.	Ia.
James, F. T.	Ill.
Jennings, J. B.	Ill.
Jirsa, O. J.	Ill.
Johnson, J. K.	Ill.
Johnson, T. S.	Ill.
Johnson, W. A.	Ill.
Kendrick, O. G.	Ga.
Khafagy, A. M.	Egypt
Kaminski, L. R.	Mich.
Keenan, T. P.	Wis.
Klontz, C. W.	Ill.
Konopa, J. F.	Ill.
Kvitek, L. C.	Ill.
Kwiecinski, E. W.	Mich.
Luxan, H. J.	Ohio
Laugier, J. R.	P. R.
Lyons, A. J.	Ill.
Leef, I. A.	Ill.
Lohman, O.	Ill.
Lopez, A. O.	P. R.
Maas, D.	Wis.
Malouf, S.	Syria
Marley, L. M.	Ill.
Mann, S.	Ill.
Markson, M. R.	Ill.
Martin, J. N.	Ia.
Matney, T. G.	W. Va.
Marowitz, M.	Ill.
Mildren, F. R.	Kas.
Miller, E. B.	Ill.
Macnamara, H. P.	Ill.
Miller, F. E.	Mass.
Miller, J. E.	Ill.
Miller, W. M.	Ind.
Morrill, E.	Mass.
Morrison, C. R.	Ill.
Murray, J. H.	Ohio
McCormick, W. C.	Wis.
McCullough, J. D.	Miss.
McKinney, I.	Ill.
McLaughlin, J. W.	Ill.
McNertney, F. D.	Utah
Nielsen, C. H.	Ia.
Newman, I.	N. Y.
Notbohm, D. R.	Wis.
Nugent, A. C.	Wis.
Nyvall, Y. J.	Minn.
Panek, A. F.	Mich.
Peabody, H. C.	S. D.
Penchina, M.	Russia
Perkins, L. A.	Ill.
Peterson, M. B.	Ind.
Pindell, M. L.	Ia.
Pietroski, J. C.	Ill.
Platt, O. R.	Nebr.
Price, B. L.	Ill.
Rentfro, C C.	Ill.
Rollins, F. T.	Mass.
Ralston, F. L.	Ill.
Ray, R.	W. Va.
Rogers, P. E.	Va.
Rotman, D. B.	Ill.
Sandrock, G. P.	Wis.
Saunders, R. H.	Ky.
Savitsky, L.	Ill.
Schmidt, A. W.	Ia.
Sachmouvitz, M.	Ill.
Summers, A.	Ill.

Name.	State.
Silverman, E.	N. Y.
Singer, R. M.	Ill.
Simon, O. B.	N. D.
Shortt, P. E.	Ia.
Seaforth, E. A.	Ill.
Smith, W. J.	Mo.
Spellman, M.	Minn.
Stephens, E. A.	Pa.
Stewart, F. J.	Ill.
Stites, R. O.	Ill.
Tubergen, B. F.	Ill.
Telerski, J. S.	Ill.
Thomson, H. I.	Fla.
Thompson, J. C.	Ill.
Thomas, E. H.	Can.
Tschetter, J. S.	Ill.
Turner, F. C.	Kas.
Van de Sand, G. F.	Wis.
Van Slyke, F. H.	Minn.
Wright, E. L.	Ill.
Willits, J.	Ill.
Werum, P. D.	Ohio
Wiley, C. R.	Ill.
Wilkinson, J. J.	Wis.
Willett, I. H.	N. Y.
Williams, W. R.	Vt.
Williamson, H. W.	Ohio
Willstead, O. D.	Ill.
Wright, R. D.	Mich.
Yoffe, S.	Mass.
Zolla, N.	Ill.
Zilvitis, P.	Ill.

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