Publications of Washington University

THE BULLETINS, issued quarterly in October, January, April, and July. They include original contributions in special fields by members of the University, and other articles of scientific interest. The July issue embodies a full review of the academic year, with abstracts of University legislation, a bibliography of writings by members of the faculty, a complete record of papers read by them before learned societies, a list of public addresses, and other matters of University interest. Price, 50c each.

THE RECORD, issued in January, February, March, April, May, and June. This is primarily designed to give prospective students a closer insight into the intellectual and material resources of the University as well as a view of its student life. It includes illustrated articles from the University faculty and alumni on topics of educational interest, and on athletics and other student activities.

THE CHRONICLE, issued monthly except in July, August, and September. This is intended for the entire University constituency: faculties, students, alumni, and friends of the institution generally. It contains a résumé of the principal activities of the University for the calendar month covered; in addition it serves to announce the more important events of the following month, to give news about the alumni, and, by a variety of other similar means, to keep the public in touch with the University.

THE CATALOGUES, including the Annual Catalogue of the University, and the catalogues of the College, School of Engineering and Architecture, Medical School, Dental School, Law School, School of Fine Arts, Correspondence School, and University Extension.

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*Continuing the "Bulletin of the Washington University Association."
Bulletin
of
Washington University

Twentieth Annual
Catalogue
of the
Medical School
June 1909

Published monthly, except in Aug. and Sept., by Washington University, St. Louis, Mo.
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### CALENDAR.

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(3)
Calendar
of the
Medical School.
1909-1910.

Second half year began Monday, February 1, 1909.
Last day for receiving applications for the degree of M.D., Saturday, May 1.
Final examinations begin Monday, May 17.
Final examination ends Saturday, May 22.
Commencement, Thursday, May 27.
Entrance examinations, Tuesday, September 21, 1909.
Examinations for advanced standing, Thursday, September 23, 1909.
Examinations for removal of conditions, Friday, September 24, 1909.
Academic year begins Monday, September 27, 1909.
Thanksgiving Day, Thursday, November 25, 1909.
Christmas recess begins Monday, December 20th, 1909.
Christmas recess ends January 2, 1910.
Mid-year examinations begin Wednesday, January 26, 1910.
Second half year begins January 31, 1910.
Washington's Birthday, Tuesday, February 22, 1910.
Last day for receiving applications for the degree of M.D., Monday, May 2, 1910.
Final examinations begin May 23, 1910.
Final examinations end May 28, 1910, Saturday.
Alumni Banquet, June 1, 1910.
Commencement, Thursday, June 2, 1910.
General Statement of the University.

On the 22nd of February, 1853, at the instance of Wayman Crow, Esq., a member of the State Senate, the Legislature of Missouri granted a charter to an educational institution to be located in the city of St. Louis, and to bear the name of Eliot Seminary, in honor of the Rev. William G. Eliot of St. Louis.

The charter, which was a most liberal one, was to be perpetual and no limitations of any sort were imposed, excepting those which forbade any sectarian or partisan instruction. The first meeting of the Corporation named in the charter of incorporation was held on the 22nd of February, 1854. In deference to the wishes of the Rev. Dr. Eliot, the name of the institution was changed. Since the charter had been granted on the 22nd of February, the birthday of Washington, and since the meeting of the Corporation for organization had also occurred on this same anniversary, the name of the institution was changed from Eliot Seminary to Washington Institute, which in 1857 became, by a change in the charter, Washington University. It seemed to the founders that the name was significant of the character of the institution which they sought to found. The first Board of Directors was composed of seventeen well-known influential citizens of St. Louis, who were named in the charter, and who were given the power to fill vacancies in their number caused by death or resignation.

The first educational work done under the charter of 1853 was the opening of an evening school for boys, in a building on Sixth street, during the winter of 1854-5. This school was called the "O'Fallon Polytechnic Institute," in honor of Colonel John O'Fallon, for years one of the University Directors; and was in charge of Messrs. Jeremiah D. Low and Nathan D. Tyrell. This evening school, and a day school, which had been in operation for some time before this period, were carried on together by the same teachers until in September, 1856, a building on Seventeenth street was completed and occupied by the day school. The evening school was sustained for several years by the University, until by special arrangement the entire care of this school was assumed by the Public School Board. This school on Seventeenth street, the forerunner of the present Smith Academy, now a secondary school of the University, was the real beginning of Washington University.

The formal inauguration of the University took place on the 23rd of April, 1857. The leading feature of its exercises was an oration by the Hon. Edward Everett of Massachusetts, upon "Academic Education," delivered in Mercantile Library Hall. Later in the year a building was erected for the chemical laboratory. In the next year the organization of the College was completed and the first College degrees were granted in 1862.

The east wing of the main building on Washington avenue and Seventeenth street, of which the academic building formed the south wing, was erected in 1868 and used for College classes; the west wing was added in 1871 and devoted to the uses of the Polytechnic School.

In the meantime the University had been growing, adding new departments, and receiving additional endowments. The Law School was organized in 1867; the Polytechnic School, now known as the School of Engineering and Architecture, in 1870; the School of Fine Arts in 1873; the School of Botany in 1885. The St. Louis Medical College, founded in 1842, was admitted as a department of the University in 1891, and the Missouri Dental College in 1892. In 1899 the Missouri Medical College which was founded in 1840, was united with the St. Louis Medical College to form the Medical School of Washington University.
In 1879 the Academy, which was the first school in operation under the charter, left the old building on Seventeenth street and Washington avenue to enter a new building on Nineteenth street and Washington avenue, erected by funds which came to the Chancellor from James and Perseus Smith, and the school has since been known as Smith Academy, in their honor. Mary Institute, a school for girls, was organized in 1869, and the Manual Training School in 1879.

In 1894 a tract of land, of which the University now owns 115 acres, was purchased just outside the city limits, northwest of Forest Park. The generosity of the citizens of St. Louis made it possible to adopt plans for building and to begin work at once. Thirteen buildings have been erected and the new site has been in possession of the University since January 30, 1905.

Through the action of the Corporation the equipment of every department has been steadily and rapidly augmented and the faculty of the Department of Arts and Sciences considerably increased. All these provisions have greatly extended the usefulness of the institution and the opportunities which are placed before the students.

LIBRARIES.

THE DEPARTMENT OF ARTS AND SCIENCES. The General Library, with the exception of the various departmental libraries is housed in the beautiful Ridgley Library building, which forms the western boundary of the first quadrangle. The number of volumes is a little over 40,000. The library is a government depository for all publications of the United States Government. The reading room contains about a thousand well-chosen books of reference, and here also are kept over two hundred of the leading general and scientific periodicals. During the past year the classical section has received an important addition in a portion of the library of the late Professor Mommsen.

The Prentorius Memorial Library subserves primarily the purposes of the more advanced instruction in the department of German. It is, however, equally available for the work of teachers and specialists in Germanics. The collection comprises nearly 10,000 volumes and gives promise of further rapid growth. It is at the present time especially well-equipped with reference to the eighteenth and nineteenth centuries, yet not lacking in valuable material for the study of the earlier periods of the German language and literature.

In order to promote public interest in the enterprise, the organizers and friends of the library arrange annually for several public lectures; during the past four years the list of lecturers included Doctors Ludwig Fulda, Eugene Kuhnemann, and Paul Clemen.

THE SCHOOL OF FINE ARTS. The well-lighted library immediately adjoins the classrooms of the School. The library comprises 2128 catalogues, reports, and magazines; 2330 bound volumes, technical and historical, on subjects pertaining to the various branches of art, painting, sculpture, decoration, textiles, illustration, etc., and about five hundred autotype and other forms of reproductions, illustrative of the historical development of art. Among these are many rare works profusely illustrated; foreign guide books, studies of cities and historical works, encyclopedias, collections of reproductions of works of art, books on design and applied art, mythology and archaeology, architecture and the history of art. Art journals of America, England, France, Germany, and Japan, and other countries, as well as such current magazines as from time to time give space to art subjects, are on file for the use of students and visitors. The library is open every day, except Sunday, during the school year, from 9 a. m. to 4 p. m.; and on Monday, Tuesday, and Thursday evenings from 6:30 to 7:30 p. m.
THE LAW SCHOOL. The library of the Law School is especially complete, consisting of more than 18,000 volumes. These books group themselves naturally under the following heads: reports, treatises, statutes, and digests. The reports are of all the Federal Courts and of all State Courts of last resort, besides a good collection of English reports, and they are kept up to date. There are more than 2,000 volumes of standard treatises. The equipment of digests and statutes is good. There is considerable duplication in the collections, the chief instance being the faculty library, which embraces duplicate sets of reports from about thirty jurisdictions. This enables the instructors to work as far as the duplication extends, without interfering with the work of the students in the main library rooms.

THE MEDICAL SCHOOL. The library of the department of Anatomy contains 684 volumes in all; besides these the department receives current numbers of sixteen journals. The department of Pathology receives nine journals. The department of Physiology has 638 bound volumes in all, including 382 volumes of journals, of which six sets are complete; twenty-four American and foreign journals are received. The department of Chemistry has 598 volumes in its library, and receives nine journals.

The general library of the Medical School comprises 3632 volumes in all.

THE DENTAL SCHOOL. This department secured by purchase in 1905 the well-known McKellop's library, which contains about 6,000 volumes. In this library may be found many of the earliest publications relating to dentistry. The library is housed in the Ridgley Library Building on the Campus, and is readily accessible to students of the Dental School, as well as to members of the dental profession.

THE LIBRARY OF THE MISSOURI BOTANICAL GARDEN. This library, accessible to all research students in Washington University, as well as to other qualified investigators in botany, is considered one of the largest and finest libraries of botany, gardening, and horticulture in America. It comprises 34,350 pamphlets and over 24,000 bound volumes, together with 102 volumes of very valuable manuscripts. The library is especially rich in rare and sumptuous monographs, as well as in the complete files of periodicals, and the publications of practically all the important learned societies of the world. 1452 such serial publications are received at present. The usefulness of the library is greatly enhanced by the cross-reference index-catalogue, consisting of upwards of 675,000 cards.

MERCANTILE LIBRARY PRIVILEGES. Through the liberality of a number of citizens of St. Louis eighty-eight memberships in the Mercantile Library have been placed at the disposal of the University. The use of these memberships is extended, under prescribed conditions, to such members of the University as may be designated by the Chancellor.

REGULATIONS GOVERNING THE USE OF THE GENERAL LIBRARY.

Books of reference and periodicals may be used in the reading room only; they must be returned to their places on the shelves after use. The above rule does not apply to the books placed upon the reserved shelves by instructors for daily consultation and reference by classes. These may be drawn out not earlier than three o'clock p. m., and must be returned by nine o'clock next morning. Books so withdrawn must be registered, and must be returned to the attendant. A fine of ten cents per day is imposed for failure to return books at the time designated above. Books in the stack room may be taken out for a term not exceeding two weeks, and may be renewed for another two weeks if not previously applied for by another. A fine of five cents a day will be charged for each book not returned on time. If the books are not returned after a third notice from the librarian the fine shall be twenty-five cents a day. Any student who, without permission from the librarian, removes a book from the reading room or the stacks, shall be deprived of all the privileges of the library for a period of one month or longer, and shall pay, in addition, a fine of two dollars.
GENERAL ASSEMBLIES OF FACULTY AND STUDENTS.

Besides the morning services, upon the following days during the academic year special exercises are held:
1. On the first Monday of each term.
2. On the day before the Christmas vacation.
3. On February 21st, or some day near February 22d, which is the anniversary of the granting of the University charter in 1853.
4. On April 23d, the anniversary of the formal inauguration of the University in 1857.
5. On the last Friday before the beginning of the June examinations.

PHYSICAL TRAINING AND ATHLETICS.

Students are encouraged to participate in intercollegiate athletics except when physical unfitness or unsatisfactory scholarship prohibits such participation.

The University is a member of the Missouri Valley Conference of Faculty Representatives, which regulates all intercollegiate contests.

Athletics at the University are under the management of the student body, supervised by an advisory board consisting of four members of the faculty, one alumnus, and five members of the student body. Matters pertaining to university policy are regulated by an Athletic Board composed of the Chancellor of the University and the Deans of the five departments.

Special emphasis is laid on all forms of intra-collegiate sports, and annual class contests, athletics and gymnastics form a special feature of university life.

All forms of physical exercises are based upon a thorough examination of the heart, lungs, spine, eyes, and general condition, and no student is allowed to take part in any of the more violent forms of exercise if he be found physically unfit.

EQUIPMENT. Francis Gymnasium is situated at the extreme western part of the campus. It is a massive structure, 100 by 180 feet, three stories high, with a main exercising hall measuring 76 by 107 feet. The building is completely equipped with the most modern kinds of apparatus. There are thirty-six hot and cold shower baths, a trophy room, wrestling, fencing and hand-ball rooms, offering every convenience for the student. Accommodations for indoor track and baseball are found in the large basement, and in the main hall is a suspended corked running track, eighteen laps to the mile.

Francis Field (World's Fair Stadium) is well known as one of the finest athletic fields in the country. It contains a splendid third of a mile oval, and a 220-yard straight-away. Within the track are two baseball diamonds, two football gridirons, and basket-ball courts. The concrete grandstand has a seating capacity of 10,000. Several excellent tennis courts adjoin the field.

McMillan Hall contains the women's gymnasium. It is equipped with the most modern kinds of apparatus, lockers, and baths.

Rules Governing Intercollegiate Athletics, Debates, and Dramatic Performances.

1. Regular students in the University who have passed all entrance requirements, who have been in residence for a full college year, who have completed a full year's work and have no term conditions, shall be eligible to
take part in intercollegiate contests except as provided below, but for participation in intercollegiate debates, no previous period of residence shall be required.

2. A student otherwise eligible becomes immediately ineligible for four weeks if his grades for any month show three E's, an F and an E, or two F's.

3. If a student's grades show a deficiency less than that named above, he shall be warned by the Physical Director, the Chairman of the Committee on Intercollegiate Debates or the President of the Dramatic Club, respectively, that he is in danger of forfeiting his eligibility.

4. If in the same study a student's grades show for two successive months grades below D, he immediately becomes ineligible for four weeks.

5. A monthly or term grade of D or higher in any course cancels at once all previous deficiency in that course.

6. A single condition on a whole term's work in any course at once renders a student ineligible until such condition is removed, or until he has, in good faith, entered upon the work of repeating the course.

7. A student who receives a condition in a subject at the end of the first term of the college year may have the privilege of removing the condition at any time under existing rules governing examinations, but shall be ineligible for athletics during the first month of the second term of the college year. In all other cases the removal of a condition at once restores the student to athletic standing, provided that monthly grades do not interfere.

8. It shall be the duty of the Physical Director, the Chairman of the Committee on Intercollegiate Debates, and the President of the Dramatic Club, to obtain from the Deans on the first Tuesday following the end of each period of four weeks the names of students who are candidates for teams participating in intercollegiate contests whose marks are below D, and then warn or suspend students as provided in the above rules.

9. In all matters not covered by the above rules, Washington University is governed in its policy in relation to intercollegiate athletics by the regulations of the Missouri Valley Conference.

DORMITORIES.

At present there are three dormitories on the campus, two for men and one for women. These are all of red granite and Bedford stone, in the Tudor Gothic style of the other University buildings. The two dormitories for men are divided into independent sections, or groups of rooms, each with a separate entrance. The prevailing arrangement is in suites of three rooms, consisting of a study and two bedrooms. All the buildings are thoroughly fire-proof. The finish throughout is of hard wood, and the rooms are furnished with steam heat and electric light.

TOWER DORMITORY, for men, is one of the buildings erected out of the rental paid by the Louisiana Purchase Exposition Company. It is 246 feet long, the east wing 96 feet deep and the west wing 246 feet deep. The building is two stories high with the exception of the central tower which has rooms in the third and fourth stories. Accommodations are provided for 80 students. In the west end of the building is a large dining room with completely equipped kitchen and serving rooms.
LIGGETT HALL. The second dormitory for men is the gift of Mrs. Elizabeth J. Liggett, in memory of her husband, the late John E. Liggett. It consists of four independent sections and accommodates 75 students.

McMILLAN HALL. The dormitory for women was erected by Mrs. Eliza McMillan as a memorial to her husband, the late William McMillan. It affords accommodations for 125 women students, besides suites of rooms suitable for the use of members of the faculty or officers of administration. It is fully supplied with all modern facilities and contains a well-appointed gymnasium, and a beautiful and commodious dining hall with kitchen and serving rooms.

RENTALS OF DORMITORY ROOMS.

Liggett Hall and Tower Hall—Men's Dormitories.

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<tr>
<td>Single Rooms, per annum</td>
<td>$60.00</td>
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<tr>
<td>Double Rooms, per annum</td>
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<tr>
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A limited amount of furniture is available for the use of occupants of rooms in the above dormitories. It will be loaned to occupants in the order of application until the supply is exhausted, at a rental of $10.00 per annum for each person.

McMillan Hall—Women's Dormitory.

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<td>Double Suites, per annum</td>
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The rooms in McMillan Hall are unfurnished. A charge for electric lighting will be made. Reservations of rooms in both men's and women's dormitories may be made upon application to the Treasurer. Reservations are made upon the express understanding that the applicant agrees to occupy the room reserved until the close of the ensuing academic year, and must be accompanied by the payment of a reservation fee of $10.00 for each person, such fee being credited as rental to the person depositing the same. Rental is payable in advance in two installments, on the first day of each term of the academic year.

EMPLOYMENT BUREAU.

Students who wish to pay part of their expenses while attending the University should register in the Employment Bureau. Many opportunities are offered of tending furnace for board and room, soliciting, collecting, tutoring, waiting on table, serving as office assistant, typewriter or stenographer, acting as agent for laundries and drygoods houses, drafting, etc. Students who wish to work for board and room should register before the opening of the University. For blanks and further information, address Employment Bureau, Washington University.

UNIVERSITY BOOK STORE.

A store, which is under the control of the University authorities, supplies books and materials necessary for the work of the students in the Department of Arts and Sciences. The prices at which books, etc., are sold are usually lower than city prices on the same goods. It is intended that in no case should the prices exceed those charged elsewhere.
CORPORATION.

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First Vice-President:  
WILLIAM KEENEY BIXBY.

Second Vice-President:  
HENRY WARE ELIOT.

Directors:

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SAMUEL CUPPLES.  DAVID ROWLAND FRANCIS.
ROBERT SOMERS BROOKINGS.  EDWARD MALLINCKRODT.
CHARLES NAGEL.  JOHN FITZGERALD LEE.
GEORGE OLIVER CARPENTER.  WILLIAM KEENEY BIXBY.
ISAAC HENRY LIONBERGER.  WILLIAM TAUSSIG.
ALFRED LEE SHAPLEIGH.  ROBERT MCKITTRICK JONES.

Secretary and Treasurer to the Corporation:  
ALFRED QUINTON KENNETT.

Office in University Hall, west of Forest Park.

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Chancellor

William Homer Warren, A.M., Ph.D., Dean . . 853 Goodfellow avenue
Professor of Chemistry, Physiological Chemistry, and Toxicology

Paul Gervais Robinson, A.B., M.D., LL.D  . . 4434 Laclede avenue
Professor Emeritus of the Principles and Practice of Medicine

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Nervous System

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Professor of Diseases of the Skin and Syphilis

Horatio N. Spencer, A.M., M.D., LL.D. . . . 2725 Washington avenue
Professor of Otology

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<thead>
<tr>
<th>Name</th>
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<tr>
<td>Henry Schwarz, M.D.</td>
<td>Professor of Obstetrics and Gynecology</td>
<td>440 N. Newstead avenue</td>
</tr>
<tr>
<td>Paul Yoer Tupper, M.D.</td>
<td>Professor of Applied Anatomy and Operative Surgery</td>
<td>4629 Berlin avenue</td>
</tr>
<tr>
<td>Edward Watts Saunders, M.D.</td>
<td>Professor of Diseases of Children and Clinical Midwifery</td>
<td>3003 Lafayette avenue</td>
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<td>Norman B. Carson, M.D.</td>
<td>Professor of Clinical Surgery</td>
<td>4379 Westminster place</td>
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<td>John Blasdel Shapleigh, A.B., M.D.</td>
<td>Professor of Otolaryngology</td>
<td>4950 Berlin avenue</td>
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<td>Robert James Terry, A.B., M.D., Secretary</td>
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<td>3853 Washington avenue</td>
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<td>Charles Claude Guthrie, A.M., Ph.D., M.D.</td>
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<td>1806 Locust street</td>
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<td>John Green, A.M., M.D., LL.D.</td>
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<td>4609 McPherson avenue</td>
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<td>Frank Adams Glasgow, A.B., M.D.</td>
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<td>3394 Washington avenue</td>
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<td>Joseph Grindon, Ph.B., M.D.</td>
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<td>3946 West Belle place</td>
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<td>Ernst Friedrich Tiedemann, M.D.</td>
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<td>3635 Cleveland avenue</td>
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<td>2342 Albion place</td>
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<td><strong>Obstetrics and Gynecology.</strong></td>
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<td><strong>Neurology.</strong></td>
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<td>Francis Rhodes Fry, M.D.</td>
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<td>M. A. Bliss, M.D.</td>
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<td><strong>Pediatrics.</strong></td>
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<td>Edward Watts Saunders, M.D.</td>
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<td>Geo. M. Tuttle, M.D.</td>
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<td>John Zahorsky, M.D.</td>
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<td><strong>Ophthalmology.</strong></td>
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<td><strong>Dermatology.</strong></td>
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<td>W. A. Hardaway, M.D.</td>
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<td><strong>Otolaryngology and Rhinology.</strong></td>
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<td>Horatio N. Spencer, M.D.</td>
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<td><strong>Orthopedic Surgery.</strong></td>
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<td><strong>Genito-Urinary Surgery.</strong></td>
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<td>Edwin C. Burnett, M.D.</td>
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<td><strong>Rectal Surgery.</strong></td>
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<td>Charles H. Dixon, M.D.</td>
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<td><strong>Pathology and Bacteriology.</strong></td>
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<td>Ernst Friedrich Tiedemann, M.D.</td>
<td>Charles Leonard Klenk, M.D.</td>
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<th>Surgeon in Charge</th>
<th>Assistant Surgeon</th>
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<td>Selden Spencer, M.D.</td>
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**General Statement.**

**HISTORY AND ORGANIZATION.**

Under an ordinance enacted in 1891, the Medical School of Washington University was established. The St. Louis Medical College, which was founded in 1842, had just completed its forty-ninth annual course, when it became the Medical School of Washington University. In the year 1899, the Missouri Medical College, which was founded in 1840, was absorbed by the Medical School of Washington University. Thus the Medical School will begin its nineteenth annual session September 27, 1909.

The St. Louis Medical College was organized in 1842 as the Medical School of the St. Louis University. In 1855 it was chartered as an independent institution under the name of the St. Louis Medical College. In 1891 it became the Medical School of Washington University. The first class was graduated in 1843. Classes have been graduated each subsequent year.

The Missouri Medical College was organized in 1840 as the Medical Department of Kemper College. In 1845 it became the Medical Department of the University of Missouri. In 1855 it assumed its present name. The first class was graduated in 1841. It was suspended during the war and no students were graduated in 1862, 1863, 1864 or 1865. It was sometimes called after its founder, “The McDowell Medical College.” In 1899 it became a part of the Medical School of Washington University.

The Medical School of Washington University represents the two oldest medical colleges in the West, having assumed their alumni and all their honored traditions, and its graduates may be found in every state. A school having at its disposal the combined resources of two institutions of such high standing, has much to offer students of medicine. Its teaching force of professors, lecturers, and clinicians numbers more than one hundred, and the prestige of a university connection, with the educational, social, and athletic privileges accompanying it, is of great benefit to the student.
BUILDINGS, LABORATORIES, AND CLINICAL FACILITIES.

The Medical School occupies two buildings, the one a hospital, the other a laboratory building, in which are conducted the teaching work of the School; there is in each a large free dispensary. It also has absolute control of the clinical privileges of three large hospitals within easy access of the School buildings. In the several city institutions it has equal privileges with others in regard to clinical instruction.

LOCUST STREET BUILDING.

In this building, which is situated on Locust street, between Eighteenth and Nineteenth streets, are most of the laboratories and the O'Fallon Dispensary. The building has been designed to facilitate the combination of didactic instruction with laboratory work, by the provision of lecture halls and class rooms. A number of research rooms have been equipped for advanced work in the departments of medicine, pathology and bacteriology, chemistry, physiology, and pharmacology.

In addition to the space occupied by the office of the Dean, the Secretary, and the Registrar, this building contains six lecture-rooms; two large laboratories for elementary, organic, and physiological chemistry; practical anatomy rooms for dissection and for the preparation of material; an osteological laboratory; a large museum of normal anatomical specimens; laboratories for histology, embryology, and organology; a very full working museum of pathological anatomy; a pathological and bacteriological laboratory; physiological and pharmacological laboratories; library and reading rooms, and a fully organized clinical department. The various laboratory departments are equipped with the latest instruments of precision and with apparatus both for demonstrations and for original research.

WASHINGTON UNIVERSITY HOSPITAL.

The Washington University Hospital is under the immediate direction of the Executive Committee of the Medical School, and the staff is composed of members of the faculty and their assistants. It is situated on the corner of Jefferson and Lucas avenues, the heart of the city, from which is drawn an enormous dispensary service, thereby assuring a constant supply of acute and chronic diseases for clinical teaching.

The Hospital was opened in January, 1905, and has afforded unusual opportunities for bedside and clinical instruction. In the construction of the hospital every effort has been made to adapt it to the purpose of teaching. It contains 128 beds, laboratories, class rooms, operating rooms, private rooms, diet kitchens, and every other known requirement for a modern teaching hospital.

From January 1, 1907, to January 1, 1908, 913 patients have been cared for. Including the dispensary and lying-in department, 39,691 visits for treatment have been made during the past year.

The Hospital fosters scientific development, and by its perfect equipment has enabled students to gain experience, assimilate the most comprehensive data, and to advance to a plane of original research and discovery.

TRAINING SCHOOL FOR NURSES.

In connection with the hospital, a training school for nurses has been organized where a thoroughly modern and scientific course of training in general, surgical, and obstetrical nursing is given. Probationers are received from all parts of the United States and Canada. For the better accommodation of the nurses in training, a residence near the hospital has been acquired and fitted up with every necessary comfort as a nurses' home.
WASHINGTON UNIVERSITY HOSPITAL DISPENSARY.

This department, formerly the Polyclinic Dispensary, with a new addition recently built, has long been the seat of thorough clinical work and has become of special importance in this respect, from its position immediately next to, and in connection with, the Washington University Hospital. This hospital connection, with a large clinic department, enables the student to observe the course and treatment of disease throughout its various stages.

The dispensary contains one large operating room which offers unrivaled facilities for instruction in operative surgery. Recently a number of research laboratories have been established in the dispensary in connection with the departments of medicine, surgery, dermatology, ophthalmology, and gynecology. A large X-ray machine has been installed.

During the year 1907, 38,678 consultations were held in the various clinics. See table No. 1 of Dispensary Service, showing number of patients treated in each clinic.

The following clinics are held daily throughout the year:

9:00 a. m. Diseases of Women.
10:00 a. m. Diseases of the Nervous System; General Medicine.
11:00 a. m. Diseases of Children.
1:00 p. m. Diseases of the Ear.
2:00 p. m. Rectal Diseases; Diseases of the Throat; Diseases of the Chest; Diseases of the Eye; Diseases of the Skin.
3:00 p. m. Surgery; Diseases of the Genito-Urinary Organs; Deformities and Joint Diseases.

O'FALLON DISPENSARY.

The entire first floor of the Locust street building is used by this large free dispensary for its patients. It is a fully equipped dispensary for the sick poor. It also affords ample material for extended practical clinical instruction in the various departments of medicine and surgery. The dispensary is so arranged that each department has a room for practical instruction to classes in small sections, in addition to the rooms devoted to the treatment of patients; there is also a large amphitheatre for clinical lectures. All modern appliances for the treatment of diseases have been introduced, so that students can learn thoroughly the use of all methods in each of the special departments of medicine.

During the year 1907, 41,575 consultations were held in the various clinics. See table No. 2, Dispensary Service, showing number of patients treated in each clinic.

The following clinics are held daily throughout the year:

10:00 a. m. Diseases of the Nervous System.
10:30 a. m. Diseases of Women.
11:00 a. m. General Surgery; General Medicine; Diseases of the Skin.
2:00 p. m. Diseases of the Ear; Diseases of the Nose and Throat; Deformities and Joint Diseases; Diseases of the Rectum.
3:00 p. m. Diseases of the Eye; Diseases of Children; General Medicine.
3:30 p. m. General Surgery; General Medicine for Women.
4:30 p. m. Genito-Urinary Diseases of Men.

The Obstetrical Out-Clinic is one of the most valuable clinics attached to this dispensary. The junior resident obstetrician in charge of the clinic is chosen at the end of each school year from the graduating class by the professor of obstetrics. Under the guidance of able instructors Senior students are offered special opportunities for practical work in this important branch of medicine. During the Senior year each student is required to be in actual attendance upon at least five cases of confinement. See table No. 2 of Dispensary Service.
**DISPENSARY SERVICE.**

**TABLE NO. 1.**

WASHINGTON UNIVERSITY HOSPITAL FREE DISPENSARY FOR 1907.

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## DISPENSARY SERVICE.

### TABLE NO. 2.

**O’FALLON FREE DISPENSARY FOR 1907.**

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<td>58</td>
<td>24</td>
<td>46</td>
<td>27</td>
<td>45</td>
<td>20</td>
<td>35</td>
<td>28</td>
<td>1,711</td>
</tr>
<tr>
<td>Diseases of Women</td>
<td>13</td>
<td>22</td>
<td>33</td>
<td>4</td>
<td>30</td>
<td>19</td>
<td>15</td>
<td>10</td>
<td>13</td>
<td>16</td>
<td>9</td>
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<td>810</td>
</tr>
<tr>
<td>Diseases of Children</td>
<td>14</td>
<td>16</td>
<td>43</td>
<td>18</td>
<td>36</td>
<td>18</td>
<td>33</td>
<td>13</td>
<td>40</td>
<td>25</td>
<td>64</td>
<td>30</td>
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<tr>
<td>Diseases of Eye</td>
<td>90</td>
<td>96</td>
<td>1,120</td>
<td>100</td>
<td>1,289</td>
<td>111</td>
<td>1,415</td>
<td>144</td>
<td>1,097</td>
<td>80</td>
<td>1,250</td>
<td>104</td>
<td>14,636</td>
</tr>
<tr>
<td>General Medicine</td>
<td>23</td>
<td>147</td>
<td>20</td>
<td>144</td>
<td>19</td>
<td>132</td>
<td>9</td>
<td>142</td>
<td>18</td>
<td>145</td>
<td>18</td>
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<tr>
<td>Medicine for Women</td>
<td>34</td>
<td>77</td>
<td>34</td>
<td>87</td>
<td>23</td>
<td>88</td>
<td>42</td>
<td>85</td>
<td>22</td>
<td>76</td>
<td>20</td>
<td>49</td>
<td>133</td>
</tr>
<tr>
<td>Genito-Urinary Diseases</td>
<td>49</td>
<td>236</td>
<td>33</td>
<td>191</td>
<td>36</td>
<td>103</td>
<td>40</td>
<td>143</td>
<td>44</td>
<td>179</td>
<td>51</td>
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<tr>
<td>Out-Clinic</td>
<td>16</td>
<td>17</td>
<td>25</td>
<td>22</td>
<td>20</td>
<td>21</td>
<td>23</td>
<td>21</td>
<td>24</td>
<td>20</td>
<td>26</td>
<td>18</td>
<td>205</td>
</tr>
<tr>
<td>Total—New</td>
<td>526</td>
<td>446</td>
<td>510</td>
<td>487</td>
<td>463</td>
<td>437</td>
<td>530</td>
<td>471</td>
<td>466</td>
<td>478</td>
<td>457</td>
<td>473</td>
<td>5,803</td>
</tr>
<tr>
<td>Total—Old</td>
<td>2,815</td>
<td>2,944</td>
<td>3,205</td>
<td>3,260</td>
<td>2,608</td>
<td>3,012</td>
<td>3,314</td>
<td>3,308</td>
<td>2,762</td>
<td>2,741</td>
<td>2,635</td>
<td>2,744</td>
<td>35,682</td>
</tr>
</tbody>
</table>
ST. LOUIS MULLANPHY HOSPITAL.

This is the oldest and most widely known hospital in the West. It was founded in 1828, and is conducted under the charge of the Sisters of Charity. In the hospital proper, approximately one hundred patients are admitted each month for treatment, and in the out-patient department about twenty-five hundred new cases annually. A larger number of the general clinics and about one half of the bedside teaching to the fourth-year class is given in the wards of this hospital.

The members of the faculty, who are attending physicians and surgeons to the hospital, hold regular clinics, and small sections of the classes are taken into the wards, where the students are required to examine patients suffering various medical and surgical diseases. Students of the fourth-year class are regularly assigned to the care of cases in the wards, under the supervision of the attending and house staffs. The hospital itself is one of the largest in this city, and has always been distinguished for the abundance of its clinical material. It is open to the students of this School only.

BETHESDA HOSPITAL.

Bethesda Hospital, with its foundlings' and maternity departments, is under the immediate charge of Professor E. W. Saunders. The Foundlings' Home, 3651 Vista avenue, is within twenty-five minutes' ride of the Medical School, and is easily accessible from all parts of the city.

This modern institution cares for over one hundred infants and children, and affords exceptional advantages for the study of diseases in infants and young children.

The Maternity Hospital, 1210 Grattan street, is open to Senior students of this School only, affording opportunity for obstetrical diagnosis and experience.

MARTHA PARSONS CHILDRENS' HOSPITAL.

The Martha Parsons Children's Hospital, to which this School has exclusive access, furnishes an abundance of material for a weekly clinic. Small sections of the class are taught the operations for deformities, application of braces, and the results of various methods of treatment.

CITY HOSPITAL.

The commodious and modern buildings of the New City Hospital, situated on Fourteenth street and Lafayette avenue, can be reached in five minutes from the school buildings by the car lines.

At this institution about fifteen thousand patients annually are treated. The wards, accommodating on an average six hundred patients, offer a wide range in the selection of cases for presentation before the classes. Three clinic rooms are provided for teaching purposes. Clinical instruction, supplemented by the use of the microscope, is given here. The Senior class attends weekly clinics in medicine, surgery, and diseases of the nervous system. The second and third year classes come in sections for the study of gross pathology and to conduct post-mortem examinations.

INSANE ASYLUM.

The buildings of the Insane Asylum are located in commodious grounds on Arsenal street, opposite Macklind avenue, about thirty minutes' ride from the Medical School. The Insane Asylum accommodates about seven hundred inmates. Attendance weekly during the eighth semester, as a part of the work in nervous and mental diseases, is required for Senior students.
THE MEDICAL SCHOOL.

MATERNITY DEPARTMENT OF THE WASHINGTON UNIVERSITY HOSPITAL.

The Maternity Department is situated on the first floor of the Washington University Hospital. It is in full running order and is completely equipped for obstetrical teaching. The service is under the exclusive direction of the Professor of Obstetrics. The obstetric operations and subsequent treatment of women and infants, affords invaluable practical experience, such as is offered at no other medical school in the West.

HOSPITAL APPOINTMENTS.

The graduates of the Medical School of Washington University are entitled to compete, on equal terms with those of other colleges, for positions on the resident staff of the St. Louis City Hospital and the Female Hospital. Appointments are also made from the graduating class each year to the following hospitals, viz: Washington University Hospital, Mullanphy, St. Anthony's, Bethesda, Baptist Sanitarium, St. Luke's Hospital, Jewish Hospital, St. Louis & San Francisco Railroad Hospital, Insane Asylum, Poor House, St. Vincent's Hospital, and Alexian Brothers Hospital.

Competitive Appointments.

This year (1909) thirty-two positions as internes at the St. Louis City and Female Hospitals were awarded after competitive examination conducted by the Board of Health of the City of St. Louis, twenty-four men being placed in the City Hospital and eight in the Female Hospital, with titles as junior assistant physicians. Eighteen of those appointed are graduates of Washington University Medical School.

Of the 110 students who took the examination about 75 were qualified for appointment and those who made the best percentages were chosen. Following are the appointees from Washington University in their relative standing at the examination:

1. W. N. Pugh.
2. J. A. Seabold.
3. O. H. Quade.
4. O. H. Quade.
5. S. A. Weintraub.
6. F. N. Chilton.
7. T. W. Taylor.
10. H. E. Kleinschmidt.
11. H. E. Kleinschmidt.
12. H. E. Kleinschmidt.
13. H. E. Kleinschmidt.
15. A. H. Sewing.
16. J. W. Barrow.
17. C. C. Gardner.
18. R. E. Hogan.
27. C. S. McGinnis.
29. W. D. Davis.
30. W. D. Davis.
31. W. D. Davis.
32. W. D. Davis.

* Blank spaces indicate appointees from other medical schools.
Other Hospital Appointments.

**ST. LOUIS CITY HOSPITAL.**
- William H. Cook, M.D. '07
- Leo George Bartels, M.D. '07
- Lee E. Monroe, M.D. '07
- Perry C. Archer, M.D. '08
- Eli T. Brand, M.D. '08
- Garfield E. Hertel, M.D. '08
- Frank W. Klocke, M.D. '08
- C. A. Gundelach, M.D. '08

**ST. LOUIS CITY FEMALE HOSPITAL.**
- Oscar R. Englemann, M.D. '06, Assistant Superintendent.
- Charles Jameson, M.D. '07
- Frank L. Davis, M.D. '08
- Geo. M. Kesl, M.D. '08

**ST. LOUIS CITY INSANE ASYLUM.**
- Cleve C. Nash, M.D. '07
- Percy Newman, M.D. '07

**WASHINGTON UNIVERSITY HOSPITAL.**
- W. D. Moore, M.D. '08

**WASHINGTON UNIVERSITY LYING-IN HOSPITAL.**
- Grandison D. Royston, M.D. '07
- William Kerwin, M.D. '08

**BETHESDA HOSPITAL.**
- Guy Y. Briggs, M.D. '03

**MULLANPHY HOSPITAL.**
- Leland P. Viley, M.D. '08

**ALEXIAN BROTHERS HOSPITAL.**
- John S. Sheets, M.D. '08
- Oscar J. Raeder, M.D. '08

**ST. ANTHONY'S HOSPITAL.**
- G. C. McCoy, M.D. '08

**ST. LOUIS SKIN AND CANCER HOSPITAL.**
- H. R. Hill, M.D. '08

**STATE INSANE ASYLUM**
- (Farmington, Mo.)
- John Hall, M.D. '03

**JEWISH HOSPITAL.**
- Gustav Reinhardt, M.D. '07

**ST. LUKE'S HOSPITAL.**
- Jesse J. Burdick, M.D. '08

**MARTHA PARSONS CHILDREN'S HOSPITAL.**
- Charles A. Stone, M.D. '08

**OTHER APPOINTMENTS.**
- George Barnett Trible, M.D. '06, United States Naval Medical School, Washington, D. C.
- George Blaine Crow, M. D. '07, United States Naval Medical School, Washington, D. C.

Requirements for Admission.

Candidates for admission to the Medical School are received upon the following conditions:
1. A satisfactory certificate of good moral standing.

2. Admission by Diploma. Any candidate who has received a degree in Arts or Science from a college or university recognized by this School will be admitted on presentation of his diploma. Diplomas of public high schools, academies, with a four years' course, also of state normal schools having a course equivalent to a four years' high school course, are accepted as complete certificates in 1909 only. Diplomas and a record of work completed must be presented by candidates to the registrar on the date of matriculation.

3. Admission by Certificate. Any candidate who shall present written evidence of having passed the entrance examinations of a recognized college or university, in which the requirements are equivalent to those demanded for entrance to the Medical School will be admitted without examination.

4. Admission by Examination. Candidates not presenting certificates of admission are required to pass a written examination. This examination will cover sixteen units; thirteen of these are required, and three are optional, as follows:

(a) Required
   1. English, 3 units.
   2. Mathematics (Algebra, through quadratics; Plane Geometry), 3 units.
   3. Latin, 3 units.
   4. French or German, or Greek, 2 units.
   5. History (Ancient, or Mediaeval and Modern, or English or American), 1 unit.
   6. Science (Physics or Chemistry or Biology or Botany or Zoology or Physiology), 1 unit.

(b) Optional (3 units to be offered from this list):
   1. Latin (advanced), 1 unit.
   2. Greek (advanced), 1 unit.
   3. Science (additional), 1 unit.
   4. History (additional), 1 unit.
   5. Civics and Economics, 1 unit.
   6. Solid Geometry, 1 unit.
   7. Plane Trigonometry, 1 unit.

All candidates for admission, who cannot present complete certificates for entrance, will be required to take an examination given by an examiner appointed by the State Superintendent of Public Schools. The examinations are confined to the subjects listed above under the requirements for admission to the Medical School. The fee of $5.00 for the examination must be paid in advance to the examiner.

A student may be allowed to enter upon his medical work conditioned in not more than three units, and these conditions must be removed by satisfactory examination before he is allowed to enter the second year of his medical course.

Details of the Entrance Requirements.

ENGLISH. (Obligatory, 1, 2, 3.)

1. GRAMMAR. A knowledge of technical terminology and of syntax—such essentials as may be found in Reed and Kellogg's "Higher Lessons in English".

2. RHETORIC AND COMPOSITION. The ability to write correct, clear and coherent English; a knowledge of the principles of capitalization, punctuation, sentence structure, and paragraphing.

* A unit means one year's work of five forty-five minute periods each week.
3. **LITERATURE.** Books assigned for "reading" should be taken up with the aim of getting clearly in mind the style and the main features of the subject matter, such as the plot, incidents, and characters.

Of candidates arriving in the years 1909–1910, preparation will be expected upon the following books:


**MATHEMATICS.**

(Obligatory, 1, 2; Optional, 3.)

1. **ALGEBRA,** to which the student should have given at least two years of study, covers the text of modern books on algebra through quadratics.

2. **GEOMETRY.** Any good text-book may be followed, and at least one year and a half should be allowed for plane and solid geometry.

3. **PLANE TRIGONOMETRY.** The candidate must be familiar with the theory and use of common logarithms of numbers and of trigonometric functions, and be able to solve plane triangles, deriving the necessary formulae, using such mathematical tables as may be given him.

**LATIN.**

(Obligatory, 1, 2, 3; Optional, 4.)

Candidates are examined as follows:

1. (a) **LATIN GRAMMAR.** The inflections; the simpler rules for composition and derivation of words, syntax of cases and verb-structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive; as much prosody as relates to versification, versification in general, and the dactylic hexameter.

(b) **LATIN COMPOSITION.** Translation into Latin of detached sentences and easy continuous prose based on Caesar and Cicero. The examination assumes that the student has devoted the equivalent of one hour a week to Latin Composition.

2. **CAESAR.** Any four books of Caesar's Gallic War, preferably the first four.

3. **CICERO.** Any six orations from the following list, preferably the first six: The four orations against Cataline; Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the fourteenth Philippic. A passage for sight translation will form part of the paper.

4. **VERGIL.** The first six books of the Aeneid. Translation at sight.

**GREEK.**

(Optional, 1, 2, 3, 4.)

1. **GREEK GRAMMAR.** The inflections and the principles of the syntax of nouns and verbs; the structure of sentences in general, with particular regard to relative and conditional sentences, and to indirect discourse; versification so far as applied to the dactylic hexameter.
2. GREEK PROSE COMPOSITION. Consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions. The examination in grammar and prose composition will be based on the first two books of Xenophon's Anabasis.

3. XENOPHON. The first four books of the Anabasis.

4. HOMER. The first three books of the Iliad (omitting II., 494-end).

1, 2, and 3 are required of all candidates presenting Greek for admission.

GERMAN.
(Optional, 1, 2.)

The aim of a two years' high school course such as will satisfy the entrance requirements in German should be to give the student a thorough knowledge of the essentials of German grammar and facility in reading modern prose and poetry. The work should comprise:

1. IN THE FIRST YEAR. Careful drill in pronunciation; dictation; drill in the rudiments of grammar, i.e., the inflections of noun, pronoun, and verb; the use of prepositions, and the simplest rules of syntax; simple exercises in conversation; and the reading of from 75 to 100 pages of graduated texts, either from a reader or from editions of easy texts.

2. IN THE SECOND YEAR. A thorough review of the first year's work in grammar, supplemented by numerous exercises in translating from English to German; a further study of syntax; conversation, based upon the texts read; practice in translation into German of easy variations upon the matter read, and also in the offhand reproduction, sometimes orally and sometimes in writing, of the substance of selected passages; and the reading of from 150 to 200 pages of literature in the form of easy stories, plays, and historical sketches.

FRENCH.
(Optional, 1, 2.)

The usual two years' course in preparatory schools which will enable the student to satisfy the entrance requirements in French should give him a thorough knowledge of the elements of French grammar and a facility in reading easy modern French prose at sight.

1. During the first year the work should comprise: a careful drill in pronunciation, the rudiments of grammar; regular and common irregular verbs; the ready use of personal pronouns; elementary rules of syntax; abundant exercises in grammar; the reading of from 100 to 150 pages of easy French, and writing French from dictation.

2. During the second year the work should comprise from 250 to 300 pages of easy modern French prose (stories, plays, and historical sketches). Frequent memorizing of a few lines of French (prose or poetry) and conversation exercises on texts thus committed to memory; dictation; continued drill in the rudiments of grammar (adjectives, pronouns, irregular verbs, use of tenses, etc.)

HISTORY.
(Optional, 5; Optional, 1, 2, 3, 4.)

Such text-books as the following, or their equivalents, are recommended:


For the required and the additional units, any two of the above may be offered.

In history, ability to interpret facts is of more importance than knowledge of mere details. The causes of events should be traced and the significance of periods of history studied.
PHYSICS (Optional).

Students must be familiar with the more important phenomena, and with the principles involved in their explanation. They must be prepared to work simple numerical problems relating to falling bodies; levers; the simple pendulum; phenomena of liquids and gases, including the determination of pressures; the density of solids and liquids by means of the principle of Archimedes; specific heats, and heats of fusion and vaporization; the relations involved in Ohm’s law; the simpler phenomena of sound; refraction and reflection and the size and position of virtual and real images due to mirrors and lenses. The student should also be familiar with the use of the vernier and with the metric system.

CHEMISTRY (Optional).

Students offering Chemistry must have had laboratory work as well as class room instruction. They must be acquainted with the methods of preparation, and the chief physical and chemical properties of the more important non-metallic and metallic elements.

BOTANY (Optional).

The candidate offering botany as an entrance requirement must have had a full year’s work in botany, two thirds of which should be genuine laboratory work. This work should include a detailed study of types from all the chief divisions of the plant kingdom and should comprise the fundamental principles of plant morphology and the general laws of plant physiology.

BIOLOGY (Optional).

One half year of botany together with a half year of either zoology or physiology.

In botany the equivalent of Coulter’s “Plant Studies” or Bergen’s “Foundations of Botany” will be required.

If zoology is offered for the second half unit, at least four types must have been dissected in detail by the student himself. These should include an Annelid, a Mollusc, an Arthropod, and an Echinoderm or a Vertebrate. Laboratory work on typical Protozoa should also be included.

In case physiology is offered, the equivalent of Colton’s “Physiology”, with additional laboratory work will be required.

ZOÖLOGY (Optional).

Candidates offering zoology as an entrance subject are expected (a) to have made careful and detailed study of at least ten morphological “types”, including a representative from each of the following groups: Protozoa (Amoeba, Paramecium, Vorticella), Porifera, Coelenterata, Mollusca, and Vertebrata (two forms); (b) to be familiar with the general principles and phenomena of animal biology as they are presented in Jordan and Kellogg’s “Animal Life”.

PHYSIOLOGY (Optional).

Martin’s “Human Body” (extended course) or Stewart’s “Physiology” is recommended as a text-book. The laboratory work should be of such a nature as to employ the student’s knowledge of the facts and processes of chemistry and physics in the explanation of physiological phenomena.
CIVICS AND ECONOMICS (Optional).

(a) In civics the candidate should have studied the organization of the village, city, township, or county, and state government under which he has lived; the Constitution of the United States and the operation of the government under the Constitution; the election or appointment and duties of public officers, the division of functions between national, state, and local governments, the constitutional guarantees of the liberty of the citizen; and should have a general knowledge of the origin of our political institutions, especially their connection with the English government.

(b) Economics. The nature of demand and supply, value and price under free competition and under monopoly; rent and diminishing returns, interest, profit, wages, the increase of capital and of the supply of labor, conditions affecting the efficiency of labor and of industry, international trade and protective tariffs, the elementary principles concerning money, credit, banking, bimetallism, and taxation. Laughlin's "Political Economy" and Fiske's "Civil Government" will serve to show the scope of the work required.

THE SIX YEARS' MEDICAL COURSE.

In addition to the usual four years' medical course, Washington University offers a six years' continuous course in general science and medicine. This course leads to the degree of Bachelor of Arts upon completion of four years' work, and to the degree of Doctor of Medicine at the end of the six years' course. It includes everything contained in the four years' medical course, and in addition enables the student to go more deeply into the fundamental sciences upon which medical studies are based.

Students who wish to combine their work in general sciences with their professional studies in medicine so as to receive both degrees, may accomplish this purpose by pursuing the courses as outlined below:

At the end of the second year's work the student taking this course will register both in the College and the Medical School.

FIRST YEAR, COLLEGE.

First Term.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>3</td>
</tr>
<tr>
<td>French 1a</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>5</td>
</tr>
<tr>
<td>German 1a</td>
<td></td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>3</td>
</tr>
<tr>
<td>Drawing 1</td>
<td>1</td>
</tr>
<tr>
<td>Zoology 1</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 3</td>
<td>3</td>
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</tbody>
</table>

18 units

Second Term.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 2</td>
<td>3</td>
</tr>
<tr>
<td>French 2a or</td>
<td></td>
</tr>
<tr>
<td>German 2a</td>
<td></td>
</tr>
<tr>
<td>Chemistry 2</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 2</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 4</td>
<td>3</td>
</tr>
</tbody>
</table>

17 units

SECOND YEAR, COLLEGE.

First Term.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 8</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 3</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 5</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 7</td>
<td>3</td>
</tr>
<tr>
<td>German 3-a</td>
<td>1</td>
</tr>
<tr>
<td>Botany 6</td>
<td>3</td>
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</tbody>
</table>

16 units

Second Term.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 9</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 6</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 6</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 8</td>
<td>3</td>
</tr>
<tr>
<td>Botany 8</td>
<td>3</td>
</tr>
<tr>
<td>German 4</td>
<td>3</td>
</tr>
</tbody>
</table>

18 units

* The modern language not presented for admission.
### THIRD YEAR.

**First Term.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physiological Chemistry (at Medical School)</td>
<td>3</td>
</tr>
<tr>
<td>Physiology (at Medical School)</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1 (at College)</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy 1 (at College)</td>
<td>3</td>
</tr>
<tr>
<td>Anatomy and Histology (at Medical School)</td>
<td>7</td>
</tr>
<tr>
<td>Elective (at College)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Second Term.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physiological Chemistry (at Medical School)</td>
<td>3</td>
</tr>
<tr>
<td>Physiology and Pharmacology (at Medical School)</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 2 (at College)</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy 2 (at College)</td>
<td>3</td>
</tr>
<tr>
<td>Anatomy and Histology (at Medical School)</td>
<td>7</td>
</tr>
<tr>
<td>Elective (in the College)</td>
<td>3</td>
</tr>
</tbody>
</table>

22 units

The remaining three years are occupied with prescribed courses at the Medical School.

**NOTE.**—In the above table a unit means one hour in class and two hours in preparation, or three hours laboratory work.

### REQUIREMENTS FOR ADMISSION IN 1910.

The Medical School of Washington University has decided to make important changes in and additions to the requirements for admission. These additions will be required of candidates for admission after Jan. 1, 1910.

Candidates for admission to the Freshman class of the Medical School, after January 1st, 1910, must present evidence of having successfully completed one year's work in the arts and science course of a university or college. Certificates to that effect from recognized colleges will be accepted in lieu of examination.

The following College courses are prescribed by the Medical School for all such candidates for admission.

1. **GERMAN** or **FRENCH**, depending upon the language offered by the candidate upon entrance. 3 hours a week throughout the year. 6 units.
2. **ENGLISH.** 3 hours a week throughout the year. 6 units.
3. **PHYSICS.** 2 hours of lectures and 2 hours of laboratory work throughout the year. 6 units.
4. **CHEMISTRY.** Should include general inorganic chemistry during the first half year, consisting of 2 hours of lectures and 4 hours of laboratory work; and qualitative analysis and quantitative analysis (only volumetric), consisting of 6 hours of laboratory work during the second half year. Average of 7 units.
5. **COMPARATIVE ANATOMY.** (Including histology, embryology, and dissection of vertebrates) consisting of 1 hour of lecture and 4 hours of laboratory work throughout the year. 6 units.

Total 15½ units each semester, or 31 units for the year.

### *ADMISSION TO ADVANCED STANDING.*

Applicants for admission to advanced standing must furnish evidence (1) that the foregoing terms of admission in regard to preliminary training have been fulfilled, (2) and that courses equivalent in kind and amount to those given in this School, in the year or years preceding that to which admission is desired, have been satisfactorily completed. The applicant must have studied as a matriculated medical student in an approved medical school for a period of time at least equal to that already spent by the class which he seeks to enter.

*See Calendar: Admission to Advanced Standing.*
Graduates of other medical schools, who are permitted to enter this School with advanced standing as candidates for the degree are required (a) to pay the fees charged for the years in which they are in attendance, (b) to fulfill the requirements for graduation, as stated in this announcement, and (c) to pass satisfactory examinations in anatomy, chemistry, physiology, and pathology.

PROMOTION.

AT THE END OF THE FIRST YEAR: A student, candidate for the degree will be promoted to the Second year class if, having attended regularly the course of the First year he has done the work satisfactorily, and has no more than two conditions. Conditions must, however, be made up by the end of the fourth semester.*

AT THE END OF THE SECOND YEAR. A student will be promoted to the Third year class whose work throughout the First and Second years has been generally satisfactory. All conditions must be removed in the fall before third year work is begun.

AT THE END OF THE THIRD YEAR: A student will be promoted to the Senior class, if he has attended regularly and received credit for the practical courses in medicine and surgery, and satisfactorily passed examinations in the lecture courses of medicine, surgery, and obstetrics, and if he has been accredited with a majority of all other branches taught in this year. Conditions in completed courses must be removed in the fall before fourth year work is begun.

AT THE END OF THE SENIOR YEAR a student will be graduated subject to the conditions named under “Requirements for Graduation”.

Definite times are set for holding the examinations of each half year's work (see Calendar). If for any reason a student wishes an examination at any other than the regular times, he may have it with the consent of his instructor and on the payment of a fee of five dollars to the registrar.

Examinations in all lecture courses will be conducted in writing, and the value of the returned papers will be indicated by the letters A, B, C, D, and E, which, expressed in percentages, are:

- A, 90 to 100 percent.
- B, 75 to 90 percent.
- C, 65 to 75 percent.
- D, 40 to 65 percent.
- E, below 40 percent.

The grade C is the lowest which a student may receive and yet pass an examination. The grade D implies that the student is conditioned and must take an examination again. The grade E signifies an absolute failure, and the student receiving this mark must repeat the course in which he has failed before he can have another examination. A student conditioned a second time in a given subject must take the subject again in class before he will be reexamined in it. Two years is the maximum time allowed for the accomplishment of one year's work. A student failing to comply with this regulation must withdraw from the School.

No credit will be given to a student for a year's work until he has satisfactorily completed all work for preceding years. A student who is allowed to take advanced work shall receive no credit for that work until he has completed the studies of the year to which such course or courses belong.

*Examinations for removal of conditions are held in the fall and spring. (See Calendar.)
REQUIREMENTS FOR GRADUATION.

1. The candidate must be twenty-one years of age.
2. He must be of good moral character (which includes unexceptional conduct while at school).
3. He must have fulfilled the requirements for entrance.
4. He must have attended not less than four annual courses of medical instruction as a regular matriculated medical student, the last of which must have been in this School.
5. He must, by the first of May, have notified the Dean, in writing, of his intention to present himself as a candidate for the degree.
6. He must have discharged all indebtedness to the School.
7. He must have taken all obligatory courses offered here, or their equivalent, and have a satisfactory grade in the entire work of the four years.

At the end of the fourth year every student, who has fulfilled these requirements, will be recommended for the degree of Doctor of Medicine.

PRIZES.

Two "GEORGE F. GILL PRIZES" are offered to the students of the School, viz.: 1. One prize of fifty dollars to be awarded at the end of the first year to the member of the class who shall have made the highest grade in anatomical work.

2. One PRIZE OF FIFTY DOLLARS to be awarded to a member of the graduating class, of high general standing, who shall have done especially good work in the department of Pediatrics.

The "CURTMAN PRIZE" of twenty-five dollars is awarded at the end of the first year to the member of the class who shall have made the highest grade in Chemistry.

ALUMNI ASSOCIATION PRIZE. For the purpose of encouraging an interest in scientific work on the part of the young men who have just been graduated, the Alumni Association of The Washington University Medical School has decided to give each year, at the graduating exercises, a prize of fifty dollars to the graduate of the year before, who presents the best thesis on a medical or surgical subject.

In 1909 the prize will be given on the following conditions:

1. While it is not desired to restrict the choice of the subject, the award will be made only to such papers as show evidence of original work. Ordinarily reports of interesting or unusual cases, unless they be included as part evidence in the consideration of some more general topic, would not meet the approval of the committee. In the same way literary summaries, unless they bring out some new and important facts, are not desired. Besides the fields of medicine, surgery, and specialties, original work may be done in anatomy, histology, physiology, physiological chemistry, pathology, hygiene, and bacteriology.

2. The candidate's thesis must be signed with a nom-de-plume and placed in a sealed envelope. This, together with a sealed letter containing the nom-de-plume, name, and address of the candidate, must be sent to the Registrar of the Medical School not later than May 1, 1910.

The committee reserves the right to publish any of the theses submitted in this contest, in the Bulletin of Washington University. This will not preclude simultaneous publication elsewhere.

3. All inquiries concerning this contest should be directed to the Registrar of the Medical School.
SCHOLARSHIPS.

The GEORGE F. GILL SCHOLARSHIP, instituted in memory of the late Dr. George F. Gill, Clinical Professor of Pediatrics, entitles the holder to one year's free tuition.

The JOHN P. BRYSON SCHOLARSHIP, instituted in the memory of the late Dr. John P. Bryson, Professor of Genito-Urinary Surgery, entitles the holder to one year's free tuition.

WINNERS OF PRIZES AND HONORS, 1907-8.

GILL PRIZE IN ANATOMY. Alphonse Herman Meyer. Honorable Mention—Merrill N. Smith, Edward N. Hagin.

GILL PRIZE IN DISEASES OF CHILDREN—Phelps Grant Hurford.


ASSISTANTSHIPS.

A limited number of positions as laboratory assistants in the courses in Chemistry, Anatomy, Histology, Physiology, Pharmacology, Pathology, Bacteriology, and Pharmacy, are awarded to students of high standing, who have been in attendance for more than one year. The salary attached to these positions is never more than fifty dollars for each session, and is dependent upon the amount of work required of the student.

CO-OPERATIVE ASSOCIATION.

By becoming members of this Association students are enabled to decrease their living expenses in many ways. Membership cards may be obtained at the School Book Store, a department of the Association, where students can obtain the text-books and other supplies needed in the course. As the profits of this store are used in the development of a library for the Medical School, the faculty, instructors, students, and all others in connection with this department of the University are urged to give it their patronage.

THE YOUNG MEN’S CHRISTIAN ASSOCIATION.

This organization has for its chief aim the development of the religious life of the institution, and secondarily, the promotion of the interests of the students in every other way possible. The Association is non-sectarian, and invites the co-operation of men of all Christian denominations. It seeks to contribute to the social life of the student body by providing a reading room and a gymnasium—where men may meet and become acquainted, and promote their mental and physical health. In its rooms the daily papers, weekly and monthly magazines, writing materials, and various forms of amusements are at the disposal of those who desire them.

The Association makes a special effort to be of service to new men. Its information bureau answers questions which men strange to the School have to ask. It secures desirable boarding places for them and endeavors to obtain employment for such as desire it. In order to enable the Freshmen to meet the older students, a reception, to which all students are invited, is given early in the year.
The affairs of the Association are managed by a board of officers, elected from the student body, under the supervision of the State Association. A student secretary, who receives a salary in addition to his tuition, is in immediate charge of the building. Weekly religious services are held, at which men of prominence from St. Louis and other places address the students. The organization has been in existence for six years only, and already more than two thirds of the men of the institution are enrolled in its membership.

FEES AND EXPENSES.

TUITION. All fees and charges are payable at the office of the Treasurer in University Hall. All checks should be made payable to the order of Washington University.

A charge of $3.00 will be made against each student who fails to register before October 6th, 1909.

Each student, before he can register, will be charged a matriculation fee of five dollars, which is payable but once during the course of four years. In addition, an annual tuition fee of one hundred dollars will be charged, and this is payable in two installments. The first installment must be paid on or before October 20th, 1909. The second on or before February 20th, 1910.

Laboratory fees are paid in advance, and no student will be admitted to a laboratory course until the fees are paid.

If, after October 20th, 1909, a student shall have left unpaid the first installment of his tuition fee, or if, after February 20th, 1910, a student shall have left unpaid the second installment of his tuition fee, or other expenses he may have incurred, he will not be considered in good standing. In case he is a candidate for the degree, he will not be admitted to the final examinations; or, if he is a member of one of the three lower classes, his grades will be withheld and no certificate of attendance will be issued to him until he shall have discharged his indebtedness to the School.

When a student enters the School and pays the required fees, it is taken for granted that he has given the matter due consideration, and that he is prepared to pursue the course of study prescribed. The faculty stands ready to perform its part of the work as laid down in the curriculum. For these reasons, fees once paid by students cannot, for any cause whatsoever, be refunded or transferred. A student, however, 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.

A student who fails of promotion shall be required to pursue and pass examinations in all work of the class to which he belongs. Such students, moreover, shall pay full tuition for four consecutive years spent in this School and none thereafter. Students must pay laboratory fees for every laboratory course taken.

LABORATORY FEES AND OTHER CHARGES. At the beginning of the session special fees are charged to cover the cost of materials and apparatus used in the laboratories. No portion of these fees is refunded. Students are further required to make good any loss resulting from damage or breakage of apparatus. Students must supply their own padlocks for the lockers provided for clothing and apparatus, and the School will not assume any responsibility for any loss of property. No fees will be charged for demonstrators’ or hospital tickets, nor for graduation.
BREAKAGE DEPOSIT. Each student in the first and second year is required to pay to the Treasurer of the University ten dollars ($10.00) to cover breakage in the laboratories. Each student of the third year will be required to pay to the Treasurer five dollars ($5.00) to cover the cost of breakage in the laboratories. This sum, less the amount charged against it for breakage, will be returned at the end of each year. No student will be granted the use of the laboratories or apparatus of the School until the required deposit has been paid.

FIRST YEAR.

CHEMICAL LABORATORY. A laboratory fee of ten dollars will be charged in General Chemistry and Qualitative Analysis and Physiological Chemistry.

ANATOMICAL LABORATORIES. A fee of five dollars will be charged for the use of anatomical material issued for dissection.

EMBRYOLOGICAL LABORATORY. A fee of two dollars and a half will be charged to cover the cost of material.

HISTOLOGICAL LABORATORY. A fee of five dollars will be charged for the use of a microscope and for material supplied in histology. A student will be held responsible for damage to his microscope, or for loss of parts, and will be expected to pay the cost. A student using his own microscope will be charged only three dollars. An annual rental fee of twenty-five cents will be charged for a locker.

SECOND YEAR.

CHEMICAL LABORATORY. A laboratory fee of five dollars will be charged in Physiological Chemistry and Toxicology.

ANATOMICAL LABORATORY. A fee of two dollars and a half will be charged for use of material.

PHYSIOLOGICAL LABORATORY. A fee of five dollars will be charged to cover cost of material.

PATHOLOGICAL LABORATORY. A fee of five dollars will be charged for the use of a microscope and for materials supplied in Pathology.

BACTERIOLOGICAL LABORATORY. A fee of five dollars will be charged for the use of a microscope and for material.

THIRD YEAR.

PHARMACOLOGICAL LABORATORY. A fee of five dollars will be charged to cover cost of material.

CLINICAL LABORATORY. A laboratory fee of five dollars will be charged in Urinology, and for the use of a microscope in Clinical Chemistry and Microscopy.

PHARMACEUTICAL LABORATORY. A fee of one dollar will be charged for laboratory work in Pharmacy. A fee of one dollar will be charged for material for the course in fractures and dislocations.
FOURTH YEAR.

A fee of five dollars will be charged for material for the course in Operative Surgery.

FEES OF ALUMNI, GRADUATES OF OTHER MEDICAL SCHOOLS, AND SPECIAL STUDENTS. Graduates of the Saint Louis Medical College, of the Missouri Medical College and of the Medical School of Washington University have a perpetual free admission. The privilege entitles the holder to attend all lectures and clinics. Should he wish to take any course in which laboratory work is given, he will be charged the specified fee.

Graduates of other medical schools will be charged the matriculation fee of five dollars, and a tuition fee in proportion to the amount of work taken during the session. For all courses in which laboratory work is given the specified fees will be charged in addition.

Graduates who may wish to take special courses of study are requested to make written application to the Registrar, stating plainly the nature of the work they wish to do and the length of time they expect to be in attendance.

SUMMARY: EXPENSES FOR THE FOUR YEARS' COURSE.

The actual fees charged for each year's attendance at the School are as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
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</thead>
<tbody>
<tr>
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<tr>
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<td>Histology</td>
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<tr>
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</tr>
<tr>
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<td>$1.00</td>
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</tr>
<tr>
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<td>$25.00</td>
<td>$25.00</td>
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</tr>
<tr>
<td>Total</td>
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<td>$132.75</td>
<td>$117.25</td>
<td>$105.25</td>
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</tbody>
</table>

Thus, for residence in St. Louis during four annual sessions of thirty-five weeks each, and for attendance at the Medical School, exclusive of the cost of instruments, clothing, amusements and incidentals, a conservative estimate would be:

<table>
<thead>
<tr>
<th>Expense</th>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
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<tr>
<td>School</td>
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</table>
Courses of Instruction Provided in the Medical School.

General Statement.

The course of medical study extends over a period of four years of eight months each and the work is based on the amount and kind required of the candidate for the degree of Doctor of Medicine. The curriculum is graded in such a manner that all the fundamental studies and general subjects must be taken before special courses and advanced work may be pursued. Instruction by practical methods in the laboratory, post-mortem room, day-clinic, and at the bedside, take up about two thirds of the time of the four years' course; the other third is given over to conferences, recitations, assigned reading, and lectures.

In the first year the work is limited to Chemistry and Anatomy. Nearly all the time is spent in the laboratories of Chemistry, Embryology, Histology, Gross and Microscopic Anatomy. The work of the second year is a continuation of the Anatomical studies, and Chemistry. During this period the subjects of Physiology, Pathology, Bacteriology, Toxicology, Materia Medica, Physical Diagnosis, Minor Surgery and Bandaging are introduced. In the third year the subjects of Medicine, Surgery, and Obstetrics are begun and each is subdivided into graded courses. The principles of Physical Diagnosis are presented to the student in the medical and surgical clinics and in a well organized laboratory course of Clinical Chemistry and Microscopy. Into this period of the course the subjects of Pharmacology, Pharmacy, Therapeutics, Hygiene, and Sanitary Science are introduced, as well as some of the specialties such as Pediatrics, Neurology, and Ophthalmology, which are taught in both the lecture-room and clinics. In the last half of the year lectures are given upon the subjects of Dermatology, Otology, and Gynecology.

The studies of the fourth year are carried on by sectional work in the clinics and at the bedside in the hospitals. Each Senior student is required to attend several obstetrical cases and make obstetrical diagnoses. Forensic Medicine, Medical Jurisprudence, Dietetics, sectional work in the special clinics and certain elective courses with obligatory recitations and assigned readings in the courses of the four years, are included in the work of this year.

In order to regulate the students' work and to ascertain the results of the teaching, examinations are held regularly at stated periods (see Calendar). Good scholarship, which includes regular attendance and satisfactory work, is insisted upon and required of all students who expect to remain in the School for the degree.

Students are responsible for their behavior, and the faculty reserves the right to terminate the connection of any student with this institution, if, for any cause, he shall prove himself unfit to pursue his professional studies.

All the property of the School, apparatus, specimens, books, etc., is for the use of the students in the prosecution of their studies. Every encouragement is offered for the fullest employment of this equipment. All that is necessary to get the freest access to this property is that the student make an application in due form to the teacher, or others in charge, so that a receipt can be taken and a proper record of the whereabouts of such articles be kept. For microscopes, etc., a cash deposit must be made for security with the Registrar. It is forbidden to remove property of the School without obtaining due permission.

* The faculty reserves the right to make such changes as seem necessary in the courses described.
Anatomy.

P. Y. Tupper, M.D., Professor of Applied Anatomy.
R. J. Terry, M.D., Professor of Anatomy and Director of the Anatomical Laboratory.
W. T. Coughlin, M.D., Instructor in Anatomy.
V. E. Emmel, Ph.D., Instructor in Histology and Embryology.
C. H. Danforth, A.B., Instructor in Anatomy.

The department offers facilities for study in the following anatomical sciences: comparative anatomy of vertebrates, human anatomy, histology, embryology, and physical anthropology. During the session of 1909-10 a prescribed course for medical students, special courses for physicians and for advanced students, and opportunity for research will be offered. The prescribed work in anatomy extends through the first two years of the medical curriculum. A brief course in comparative anatomy precedes the courses in organology and human dissection which are completed in the first year. Special studies in topographical and applied anatomy follow in the second and third years.

The department is well equipped for teaching. There are three laboratories, a lecture-room, a demonstration room provided with a Zeiss epidiascope, a working museum and library. The microscopical laboratories are equipped with Leitz microscopes and furnished with the unit-system tables. The library contains complete sets of the important anatomical journals, standard works of reference, atlases, and monographs.

The students are taught to consider the animal body from the standpoints of gross and minute structure and development, and in the case of the human body, the topographical relationships of parts. The work is done mainly in the laboratory, where the student is trained to make careful observations and thus to learn the facts of anatomy at first hand. Drawing, measuring and weighing, and week-end written examinations form a large part of the routine of class work.

Some special work in an anatomical subject is required of each student before the end of the prescribed course. The student's standing in anatomy will not be determined until the end of the fourth semester.

FIRST YEAR.

Courses 1, 2, and 3 extend through the first eight weeks of semester 1, and serve as an introduction to the study of human anatomy. Several animal forms are used; and during this period the common anatomical methods of the dissecting room and microscopical laboratory are explained.

1. VERTEBRATE DISSECTION. The time is occupied in dissecting an elasmobranch and in acquiring a knowledge of anatomical terms and methods. Laboratory work and demonstrations, 9 hours a week. 
   Professor Terry, Dr. Emmel, and Mr. Danforth.

2. EMBRYOLOGY. This division includes the study of the sex-cells, the processes of maturation and fertilization, cleavage, the germ layers, and the early history of the salamander and chick. Laboratory, 7 hours a week; lectures, 1 hour; recitation, 1 hour. 
   Professor Terry, Dr. Emmel, and Mr. Danforth.

3. HISTOLOGY AND HISTOGENESIS. The work includes a study of the cell and tissues, their conditions in the embryo, and their subsequent differentiation. The material is obtained from the cat, rabbit, pig, chick, and salamander. Laboratory, 7 hours a week; lectures, 1 hour; recitation, 1 hour. 
   Professor Terry, Dr. Emmel, and Mr. Danforth.
4. **ORGANOLOGY.** The study of the organs is taken up in the first semester on the completion of the work in comparative anatomy. It is continued until the close of school. The work includes the gross and fine anatomy of the organs and the history of their development. Human material and material from the abattoirs is made use of in this course. The development of the organs is studied in pig embryos. Laboratory work, 8 hours a week; lectures, 1 hour; recitation, 1 hour.

**Professor Terry, Dr. Emmel, and Mr. Danforth.**

5. **HUMAN DISSECTION.** Laboratory, 16 hours a week; examination, 2 hours; from November 22nd throughout the second semester. The course includes osteology.

**Professor Terry and Dr. Coughlin.**

**SECOND YEAR.**

6. **STUDY OF SECTIONS OF THE CADAVER.** This course is required of second year students during the first eight weeks of the third semester. Laboratory, 12 hours a week; examinations, 2 hours.

**Professor Terry and Dr. Coughlin.**

**THIRD YEAR.**

7. **APPLIED ANATOMY.** 2 lectures a week in the sixth semester, dealing with the application of anatomy in the practice of medicine.

**Professor Tupper.**

**COURSES FOR ADVANCED STUDENTS.**

8. **ANATOMY OF THE SENSE ORGANS.** Laboratory work, 8 hours a week from September 27th until November 20th. Elective.

**Professor Terry.**

9. **PHYSIOLOGICAL ANATOMY OF THE MUSCLES AND JOINTS.** Laboratory work, 8 hours a week, from November 22nd until February. Elective.

**Professor Terry.**

**COURSES FOR GRADUATES.**

10. **MICROSCOPIC ANATOMY OF THE ORGANS.** Laboratory work, 8 hours a week from the middle of April until the middle of May. Elective.

**Dr. Emmel.**

11. **MICROSCOPIC TECHNIQUE.** Instruction is given in the use of the microscope and in the preparation of objects for microscopic study. 8 hours a week of laboratory work from the middle of April until the middle of May. Elective.

**Mr. Danforth.**

12. **DISSECTION OF THE ABDOMEN AND THE SURGICAL REGIONS OF THE HEAD AND NECK.** 12 hours a week from the middle of April until the middle of May. Elective.

**Dr. Coughlin.**
Chemistry.

W. H. Warren, Ph.D., Professor of Chemistry, Physiological Chemistry, and Toxicology.
Edward Mueller, Ph.D., Assistant Professor of Chemistry.

FIRST YEAR.

1. INORGANIC CHEMISTRY. This course will cover the essentials of descriptive, inorganic chemistry, qualitative analysis, and volumetric analysis. The lectures are illustrated by appropriate experiments and demonstrate the fundamental principles of the science. Typical elements and their compounds are discussed. The laboratory work includes individual practice with these same principles and the analytical work involves the examination of unknown substances and the quantitative determination of their constituents. Assigned reading, thesis writing, and recitations are a part of the course. 12 hours a week for the first semester. (Total: lectures, 48 hours; laboratory, 144 hours).

Professor Warren and Assistant Professor Mueller.

2. BIOCHEMISTRY. Lectures and laboratory work supplement each other. In this course the chemistry of fats, carbohydrates, proteins, digestion, blood and respiration, metabolism, animal heat, milk, food stuffs, and excretions are studied both from the structural, or organic, side, and from the physico-chemical standpoint. The laboratory work is individual in each case. Assigned reading, thesis writing, and recitations are a part of the course. 12 hours a week for the second semester. (Total: lectures, 48 hours; laboratory, 144 hours).

Professor Warren and Assistant Professor Mueller.

3. TOXICOLOGY. Laboratory practice is given in testing for volatile, organic (including synthetic and natural products), and mineral poisons. When sufficient familiarity with the tests as given by pure materials is acquired, unknown mixtures are submitted for examination. Assigned reading, thesis writing, and recitations are a part of the course. 5 hours a week for the first half of the third semester. (Total: lectures, 8 hours; laboratory, 32 hours).

Professor Warren and Assistant Professor Mueller.

4. CHEMISTRY OF FOODS. The various kinds of nitrogenous, fatty, starchy and condimental foods, as well as beverages, are considered from the standpoint of digestibility, calorific value, analysis for adulterants and preservatives. 5 hours a week for the second half of the third semester. (Total: lectures, 8 hours; laboratory, 32 hours.) Elective.

Assistant Professor Mueller.

5. RESEARCH. Opportunity is given for research work along the lines of any of the above courses, but such work is open only to those who are properly qualified. Elective.

Professor Warren and Assistant Professor Mueller.
Materia Medica, Pharmacy, and Therapeutics.

H. M. Whelpley, Ph.G., M.D., Professor of Materia Medica and Pharmacy.
Fred Fahlen, M.D., Lecturer on Therapeutics.
E. P. Cockrell, Ph.G., M.D., Assistant in Pharmacy.

The instruction in this department is given with the view of bringing clearly before the mind of the student the important characters of drugs, their physiological action, and application in the treatment of disease. The courses offered are given by means of lectures, supplemented by work in the laboratory.

SECOND YEAR.

1. MATERIA MEDICA. Lectures and demonstrations, 2 hours a week in the fourth semester.

   Professor Whelpley.

THIRD YEAR.

2. PHARMACY. Laboratory, 2 hours a week in the fifth semester.

   Professor Whelpley and Dr. Cockrell.

3. THERAPEUTICS. Lectures, 3 hours a week in the fifth semester, and 2 hours a week in the sixth semester.

   Dr. Fahlen.

Medicine.

Gustav Baumgarten, M.D., Professor of the Practice of Medicine.
W. E. Fischel, M.D., Professor of Clinical Medicine.
Justin Steer, M.D., Professor of Clinical Medicine.
W. A. Hardaway, M.D., Professor of Diseases of the Skin and Syphilis.
E. W. Saunders, M.D., Professor of Diseases of Children and Clinical Midwifery.
F. R. Fry, M.D., Professor of Diseases of the Nervous System.
Joseph Grindon, M.D., Professor of Clinical Dermatology and Syphilis.
Geo. M. Tuttle, M.D., Professor of Clinical Pediatrics.
Elsworth Smith Jr., M.D., Professor of Clinical Medicine.
S. P. Spencer, LL.B., Professor of Forensic Medicine.
D. N. Kirby, LL.B., Professor of Medical Jurisprudence.
A. E. Taussig, M.D., Clinical Professor of Medicine.
John Zahorsky, M.D., Clinical Professor of Pediatrics.
L. H. Behrens, M.D., Clinical Professor of Diseases of the Chest.
Given Campbell Jr., M.D., Clinical Professor of Diseases of the Nervous System.
H. S. Brookes, M.D., Clinical Professor of Medicine.
M. A. Bliss, M.D., Clinical Lecturer on Neurology.
O. H. Campbell, M.D., Instructor in Clinical Medicine.
M. W. Hoge, M.D., Instructor in Clinical Neurology.
W. L. Johnson, M.D., Instructor in Clinical Pediatrics.
E. W. Eberlein, M.D., Instructor in Clinical Pediatrics.
M. J. Lippe, M.D., Instructor in Clinical Pediatrics.
A. Levy, M.D., Instructor in Clinical Pediatrics.
L. C. Huelsmann, M.D., Instructor in Clinical Medicine.
Walter Fischel, M.D., Instructor in Physical Diagnosis.
H. W. Bewig, M.D., Instructor in Physical Diagnosis.
F. C. E. Kuhlmann, M.D. Instructor in Physical Diagnosis.
W. T. Hirschi, M.D., Instructor in Physical Diagnosis.
The course in medicine comprises a graded plan of study extending throughout three years. General lectures and recitations are given upon the practice of medicine, supplemented by bedside, laboratory, and dispensary instruction.

Physical diagnosis is taught by exercises in the last half of the second year and during the third year. Clinical Chemistry and Microscopy is given throughout the third year, taking up the subjects of blood, stomach, contents and feces, chemical analysis and microscopic examination of the urine, and exercises in laboratory diagnosis of actual cases.

The practice of medicine is taught by lectures and clinics (see description below). The lectures are not intended to repeat the contents of any textbook, but are designed to complement the latter. They are illustrated by pathological specimens, colored plates, and diagrams.

Clinical medicine is taught during the third and fourth years. General medical clinics are held in the hospitals and dispensaries connected with this School. Excellent facilities for teaching are furnished; medical clinics are held every day during the year, and the laboratories are open for scientific study of cases.

The total amount of clinical instruction for each student is as follows: in the third year, 90 hours in the medical clinic, 30 hours in the pediatric clinic, and 30 hours in the neurological clinic. In the fourth year, 270 hours in the medical clinic, 30 hours in the pediatric clinic, 60 hours in the neurological clinic, and 16 hours in the dermatological clinic.

Bedside instruction is given to Seniors throughout the year, in the wards of the University and Mullanphy Hospitals. The patients are assigned to the students, who take their histories, make the physical examinations, the diagnosis and prognosis, and suggest the line of treatment.

SECOND YEAR.

1. NORMAL AUSCULTATION AND PERCUSSION. Exercises 2 hours a week in the fourth semester.  
   Professor Smith.

THIRD YEAR.

2. CLINICAL CHEMISTRY AND MICROSCOPIC DIAGNOSIS. Laboratory work, 4 hours a week during the year.  
   Clinical Professor Taussig, Drs. Myer, Rush, Baumgarten, and Salter.

3. PHYSICAL DIAGNOSIS. Exercises 2 hours a week in the fifth semester, and 1 hour in the sixth semester.  
   Professor Smith, Drs. Bewig, Kuhlmann, and Hirschi.

4. PRACTICE OF MEDICINE. Lectures and recitations, 3 hours a week during the year.  
   Professor Baumgarten and Dr. Zimmermann.

5. MEDICAL CLINIC. At Washington University Hospital Dispensary, 3 hours a week during the year. Section of one third of the class.  
   Clinical Professor A. E. Taussig.

6. MEDICAL CLINIC. At Washington University Dispensary, 3 hours a week during the year. Section of one third of the class.  
   Clinical Professor Behrens.

7. MEDICAL CLINIC. At O’Fallon Dispensary, 3 hours a week during the year. Section of one third of the class.  
   Clinical Professor Brookes.
FOURTH YEAR.

8. PRACTICE OF MEDICINE. Lectures and recitations, 3 hours a week during the year.
   Professor Baumgarten and Dr. Zimmermann.

9. MEDICAL CLINIC. At Mullanphy Hospital, 12 hours a week during the year. Section of one fourth of the class.
   Professors Steer and Smith.

10. MEDICAL CLINIC. At Washington University Hospital, 12 hours a week during the year. Section of one fourth of the class.
    Professor W. E. Fischel, Clinical Professor Taussig, Drs. Campbell and Walter Fischel.

11. MEDICAL CLINIC. At Washington University Hospital, 2 hours a week during the year. Entire class.
    Professor Fischel.

12. MEDICAL CLINIC. At City Hospital, 1 hour a week during the year. Entire class.
    Professors Fischel and Smith.

PEDIATRICS.

The courses in diseases of children consist of lectures and clinical instruction. The more important subjects receive systematic and full discussion. Among these topics are the feeding of infants, gastro-intestinal diseases, diphtheria, scarlet fever, pneumonia of childhood, etc. Clinical instruction is given in the dispensaries and the Bethesda Hospital. The exceptional richness and variety of material afforded by the Bethesda Hospital makes this part of the course a valuable feature. Sections of the class attend classes three times a week and have the opportunity of examining the patients under the direction of the instructor in charge. In addition to this, the children's clinics at the Washington University Hospital Dispensary and the O'Fallon Dispensary are drawn upon for clinical lectures on the various diseases presenting themselves.

THIRD YEAR.

13. DISEASES OF CHILDREN. Lectures and demonstrations, 2 hours a week in the fifth semester.
    Professor Tuttle.

14. PEDIATRIC CLINIC. At O'Fallon Dispensary, one hour a week during the year. Section of one half of the class.
    Professor Tuttle and Dr. Eberlein.

15. PEDIATRIC CLINIC. At Washington University Hospital Dispensary, 1 hour a week during the year. Section of one half of the class.
    Clinical Professor Zahorsky.

FOURTH YEAR.

16. DISEASES OF INFANTS. Lectures, 1 hour a week in the seventh semester.
    Professor Saunders.

17. PEDIATRIC CLINIC. At Bethesda Hospital, 4 hours a week during the year, in sections of one fourth of the class.
    Professors Saunders and Tuttle, and Assistants.
NEUROLOGY.

A course of lectures in neurology is given to the Junior class during the last half of the third year. These lectures are supplemented by one clinical lecture a week during the year at the Washington University Hospital and O'Fallon Dispensaries, where the large amount of material always at command enables the teacher to select the subjects to be discussed. Instruction in mental diseases is given to Senior students at the St. Louis Insane Asylum. The class is divided into sections, in order to give the student an opportunity of investigating cases under the supervision of the instructors in charge. Altogether each student devotes 30 hours to clinical work during the third year, and 60 hours during the fourth year.

THIRD YEAR.

18. DISEASES OF THE NERVOUS SYSTEM. Lectures, 1 hour a week in the fifth semester.

19. NEUROLOGICAL CLINIC. At Washington University Hospital Dispensary, entire class, 1 hour a week in the sixth term.

20. NEUROLOGICAL CLINIC. At O'Fallon Dispensary, 1 hour a week in the sixth semester. Entire class.

FOURTH YEAR.

21. CLINIC. At City Hospital, 1 hour a week during the year. Entire class.

22. CLINIC. At Insane Asylum and Poor House, 4 hours a week in the eighth semester. Sections of one half of the class.

DERMATOLOGY.

The instruction given in dermatology and syphilography is partly didactic and partly clinical. The elements of these subjects, that is to say, the general consideration of symptoms, causes, therapeutics, etc., are imparted to the student as a preliminary to the clinic, in the third year of the course. The important subject of vaccination, its history, clinical phenomena, and mode of application is exhaustively treated. In the fourth year students are thoroughly drilled in practical clinical work. The classes are divided into small sections, and to each three or four men is assigned a patient for study.

THIRD YEAR.

23. DISEASES OF THE SKIN AND SYPHILIS. Lectures and clinical demonstrations, 1 hour a week for ten weeks in the fifth semester.

24. ERUPTIVE FEVERS, VACCINATION, AND CUTANEOUS SYphilis. Lectures, 1 hour a week for ten weeks in the sixth semester.
FOURTH YEAR.

25. DERMATOLOGICAL CLINIC. At Washington University Hospital Dispensary, section of one fourth of the class 1 hour a week during the year. Professor Hardaway.

26. DERMATOLOGICAL CLINIC. At Mullanphy Hospital, 1 hour a week during the year. Sections of one fourth of the class. Professor Grindon.

HYGIENE AND SANITARY SCIENCE.

All subjects bearing on the general maintenance of good health—water, food, climate; the construction, ventilation, heating, and lighting of buildings; the character of soils; principles of clothing; effects of exercise; disposal of excreta, sewage, and refuse; the origin and transmission of the infective diseases; disinfection, and quarantine—are treated in detail, their relation to disease discussed, and the necessity for the observance of sanitary laws impressed.

27. HYGIENE AND SANITARY SCIENCE. Lectures and demonstrations 2 hours a week in the sixth semester. Dr. Bleyer.

MEDICAL JURISPRUDENCE AND FORENSIC MEDICINE.

The courses in medical jurisprudence and forensic medicine are intended to be practical rather than theoretical, and while covering the ground hitherto embraced in this branch, are demonstrated from the view point of the practicing lawyer. Instruction is given as to the proper preparation and conduct of a case so as to meet the requirements of the law. The practical work of the legal autopsy, the coroner's inquest, the succeeding trial, its preparation and conduct, the use of the drugs and other medico-legal subjects are exemplified and applied. The requirements of statutory practice acts are set forth and clearly explained.

FOURTH YEAR.

28. MEDICAL JURISPRUDENCE. Lectures and recitations, 1 hour a week in the eighth semester. Mr. Kirby.

29. FORENSIC MEDICINE. Lectures and recitations, 1 hour a week in the eighth semester. Judge Spencer.

DIETETICS.

The course in dietetics will include lectures and recitations upon food, beverages, condiments, and diet, in health and disease.

THIRD YEAR.

30. DIETETICS. Lectures and recitations, 1 hour a week in the seventh semester. Dr. Mills.

MEDICAL HISTORY.

31. MEDICAL HISTORY. The course consists of evening lectures given from time to time during the session at the college building. Open to all students. Lectures to be announced.
Obstetrics and Gynecology.

Henry Schwarz, M.D., Professor of Obstetrics and Gynecology.
E. W. Saunders, M.D., Professor of Clinical Obstetrics.
F. A. Glasgow, M.D., Professor of Clinical Gynecology.
H. S. Crossen, M.D., Professor of Clinical Gynecology.
Willis Hall, M.D., Clinical Lecturer on Gynecology.
R. H. Fuhrman, M.D., Lecturer on Obstetrics and Gynecology.
A. G. Schlossstein, M.D., Lecturer on Obstetrics and Gynecology.
George Gellhorn, M.D., Lecturer on Gynecology.
P. J. Taussig, M.D., Lecturer on Gynecology.
H. A. Hanser, M.D., Instructor in Gynecology.
A. C. Kimball, M.D., Instructor in Gynecology.
B. W. Moore, M.D., Instructor in Obstetrics.
Sherwood Moore, M.D., Instructor in Obstetrics.

OBSTETRICS.

A graded course of instruction in obstetrics will be given during the third and fourth years, as follows: lectures, attendance on cases of confinement; manikin practice and section work; obstetric histology, pathology, bacteriology, and clinical conferences.

In the obstetrical clinics and out-clinics each student is given ample opportunity under the supervision of the physicians in charge to examine cases during the different months of pregnancy, to attend a large number of confinements, and to continue his attendance on mother and baby during the lying-in period. In the clinical conference held each week the students make reports of the cases they have attended, and discuss them with their instructors. Each student in his fourth year devotes 22 hours to clinical work in obstetrics and 67 hours in gynecology.

THIRD YEAR.

1. OBSTETRICS. Lectures with demonstrations. Two hours a week during the year.
   Professor Schwarz.

FOURTH YEAR.

2. OPERATIVE OBSTETRICS. THE PATHOLOGY OF PREGNANCY, LABOR, AND Puerperium. Lectures. 1 hour a week during the year.
   Professor Schwarz.

3. EXERCISES ON THE MANIKIN. 2 hours a week during the year.
   Sections of one fourth of the class.
   Dr. Fuhrmann.

4. CLINICAL OBSTETRICS AND CLINICAL CONFERENCE. At the Washington University Lying-in Hospital. 3 hours a week during the year.
   Sections of one fourth of the class.
   Professor Schwarz, Drs. Fuhrmann and Schlossstein.

5. OBSTETRICAL CLINIC. At the Bethesda Hospital, by appointment, during the year.
   Professor Saunders.

6. OBSTETRICAL CLINIC AND OBSTETRICAL OUT-CLINIC of the Washington University Lying-in Hospital, by appointment, during the year.
   Professor Schwarz and Associates.
GYNECOLOGY.
A comprehensive lecture course, dealing in a systematic way with the diseases of women; and clinical courses, in which the Senior students are required, under the supervision of the instructor to make careful and systematic examinations, to make diagnoses and sustain them under criticism, to carry out the minor details of treatment and to witness the various gynecological operations.

THIRD YEAR.
7. GYNECOLOGY. Lectures and demonstrations. 2 hours a week in the sixth semester.

Professor Glasgow.

FOURTH YEAR.
8. GYNECOLOGY. Lectures and demonstrations. 2 hours a week in the eighth semester.

Professor Crossen.

9. GYNECOLOGICAL CLINIC. Washington University Hospital Dispensary. 4 hours a week during the year. Sections of one fourth of the class. Professor Crossen, Drs. Hanser and Taussig.

10. GYNECOLOGICAL CLINIC. Mullanphy Hospital. 2 hours a week during the year. Sections of one fourth of the class.

Professor Glasgow.

11. GYNECOLOGICAL CLINIC. O'Fallon Dispensary. 3 hours a week during the year. Sections of one fourth of the class.

Professor Schwarz, Drs. Gellhorn, Hall, and Schlossstein.

Pathology and Bacteriology.
Ernst F. Tiedemann, M.D., Professor of Pathology and Bacteriology.
C. L. Klenk, M.D., Laboratory Assistant.

A series of lectures and laboratory instruction is given in the first half of the second year upon elementary pathology, including the consideration of the etiology, types of disease, classification of disease, termination of disease, and signs of death. The subjects of embolism, thrombosis, inflammation, degeneration, and regeneration are fully demonstrated in the lectures and laboratory.

During the latter half of the year the lectures and laboratory work are continued and are devoted to the various retrograde and progressive elementary pathological processes, to regeneration, inflammation, the specific inflammations, tumor formation, and teratology. In the laboratory the student devotes the time to the preparation and study of illustrative pathological tissues by the microscope, the gross features of the processes discussed being correlated by frequent demonstrations of material from the collection of specimens in the laboratory. Following this work lectures and demonstrations are given in special pathology of the various organs of the body.

In bacteriology instruction is given to each student in the methods of cultivating bacteria, isolating them in pure culture, the steps necessary to the identification of particular species, the relation of bacteria to infection, and the methods of sterilization and disinfection.
SECOND YEAR.

1. GENERAL PATHOLOGY. Lectures and demonstrations, 3 hours a week, during the year.
   Professor Tiedemann.

2. PATHOLOGICAL HISTOLOGY. Laboratory instruction, 6 hours a week, during the year.
   Professor Tiedemann.

3. GROSS PATHOLOGICAL ANATOMY AND AUTOPSIES. The class is divided into sections and the student is required to participate in and make written reports upon autopsies, which are performed at the City and University Hospitals. 3 hours a week, for half the year.
   Professor Tiedemann.

4. GENERAL BACTERIOLOGY. Lectures, 2 hours a week in the fourth semester.
   Professor Tiedemann.

5. GENERAL BACTERIOLOGY. Laboratory, 6 hours a week in the fourth semester.
   Professor Tiedemann.

Physiology and Pharmacology.

C. C. Guthrie, M.D., Ph.D., Professor of Physiology and Pharmacology.
Hugh McGuigan, Ph.D., Assistant Professor of Pharmacology.
R. H. Nicholl, B.S., Instructor in Physiology.
F. V. Guthrie, A.M., Research Assistant in Physiology.

SECOND YEAR.

1. EXPERIMENTAL PHYSIOLOGY. This course comprises the physiology of the blood, circulation, respiration, digestion, metabolism, absorption, secretion, muscles, heat, nervous system, and special senses. The fundamental principles are emphasized both in the lectures and the laboratory, after which the medical bearing of the subject is considered. To this end especial attention is given to experiments on mammals. The course is arranged so that the experimental side of the subject follows closely after the lectures. In the laboratory the students work in groups of two on the frog and other similar forms, and on mammals in groups of four. The student is encouraged to rely upon himself as much as possible, but instructors are always present to give assistance and to criticize whenever necessary. Lectures, 2 hours a week; recitation, 1 hour a week; laboratory, 4 hours a week. Third and fourth semesters.
   Professor Guthrie, Assistant Professor McGuigan, and Mr. Nicholl.

THIRD YEAR.

2. EXPERIMENTAL PHARMACOLOGY. The work is arranged with the aim of giving the student a concrete view of the nature and scope of the subject. The chemicals are grouped as nearly as possible according to their pharmacological action, and one or more of each group is treated in detail both in the classroom and the laboratory. Current theories of drug action will be discussed in so far as may seem warrantable. In general, the work will be conducted as in physiology. Lectures, 2 hours a week. Recitation, 1 hour a week. Laboratory, 4 hours a week. Fifth semester.
   Professor Guthrie and Assistant Professor McGuigan.
3-4. RESEARCH WORK IN PHYSIOLOGY AND PHARMACOLOGY.
Adequate facilities are offered advanced students for pursuing original investigations in both physiology and pharmacology. The laboratory is well stocked with general apparatus, instruments, and supplies, and funds are available for securing special additions as occasion demands. Quarters for keeping animals are being reconstructed and enlarged, so that a moderate number can be kept in good condition. A good working library is available, the files of which are being completed and added to as rapidly as possible.

Professor Guthrie and Assistant Professor McGuigan.

Surgery.

Herman Tuholske, M.D., Professor of the Practice of Surgery and Clinical Surgery.
H. N. Spencer, M.D., Professor of Otology.
P. Y. Tupper, M.D., Professor of Operative Surgery.
N. B. Carson, M.D., Professor of Clinical Surgery.
J. B. Shapleigh, M.D., Professor of Otology.
John Green, M.D., Special Professor of Ophthalmology.
H. G. Mudd, M.D., Professor of Fractures and Dislocations and Clinical Surgery.
E. M. Senseney, M.D., Professor of Diseases of the Nose, Throat, and Chest.
A. J. Steele, M.D., Professor of Orthopedic Surgery.
Willard Bartlett, M.D., Professor of Experimental Surgery.
H. L. Wolfin, M.D., Professor of Clinical Ophthalmology.
A. E. Ewing, M.D., Professor of Clinical Ophthalmology.
E. C. Burnett, M.D., Clinical Professor of Genito-Urinary Diseases.
H. McC. Johnson, M.D., Clinical Professor of Genito-Urinary Surgery.
G. W. Cale Jr., M.D., Clinical Professor of Surgery.
C. H. Dixon, M.D., Clinical Professor of Rectal Surgery.
Greenfield Sluder, M.D., Clinical Professor of Diseases of the Nose and Throat.
Ernst Jonas, M.D., Clinical Professor of Surgery.
W. A. Shoemaker, M.D., Clinical Professor of Ophthalmology.
J. W. Charles, M.D., Clinical Professor of Ophthalmology.
V. P. Blair, M.D., Clinical Professor of Surgery.
P. Hoffman, M.D., Clinical Lecturer on Orthopedic Surgery.
M. Wiener, M.D., Lecturer on Ophthalmology.
Selden Spencer, M.D., Lecturer on Otology.
A. F. Koetter, Lecturer on Otology.
W. M. Robertson, M.D., Lecturer on Genito-Urinary Surgery.
W. S. Deutsch, M.D., Lecturer on Surgery.
Nath. Allison, M.D., Clinical Lecturer on Orthopedic Surgery.
H. C. Creveling, M.D., Instructor in Clinical Laryngology.
W. E. Sauer, M.D., Instructor in Clinical Laryngology.
H. H. Gross, M.D., Instructor in Ophthalmology.
H. M. Semple, M.D., Instructor in Ophthalmology.
F. E. Woodruff, M.D., Instructor in Ophthalmology.
L. Williamson, M.D., Instructor in Ophthalmology.
E. T. Senseney, M.D., Instructor in Otology.
H. A. Geitz, M.D., Instructor in Minor Surgery and Bandaging.
R. E. Schlueter, M.D., Instructor in Clinical Surgery.
N. B. Clopton, M.D., Instructor in Clinical Surgery.

The courses in surgery, which includes instruction in surgical pathology, in the principles and practice of surgery, in practical minor surgery, in operative surgery and in surgery of the ear, eye, nose, and throat, genito-urinary surgery, orthopedic surgery, and rectal surgery, are so arranged that every student shall have received at its termination systematic instruction in every subject.
The methods are varied and are designed to give the student thorough training in the fundamental principles concerning the pathogenesis of all surgical affections; to develop the powers of observation; to make him thoroughly conversant with the principles underlying every plan of treatment; and as far as possible, to give him opportunity under the direction of instructors to put into practice certain major and minor operative procedures. They include demonstrations in surgical pathology, lectures, clinics, ward classes, clinical conferences, courses in practical minor surgery, including bandaging, fracture dressing, and dispensary work, operative surgery, general reviews, ward work and visits, and experimental surgery. A course in Roentgenology will be given in connection with the lectures on fractures and dislocations. The time devoted to clinical instruction in the various subjects is distributed as follows: general surgery, 90 hours for each student in the third year, 232 hours in the fourth year; orthopedic surgery, 15 hours in the fourth year; genito-urinary surgery, 30 hours in the fourth year; rectal surgery, 30 hours in the fourth year; ophthalmology, 15 hours in the third year; 15 hours in the fourth year; otology, 30 hours in the fourth year; laryngology, and rhinology, 45 hours in the fourth year.

At the Washington University Hospital every student will fill the position of interne in the surgical division for at least two weeks.

GENERAL SURGERY.
SECOND YEAR.
1. INSTRUCTION IN MINOR SURGERY AND BANDAGING. 2 hours a week in the fourth semester.  
   DR. GEITZ.

THIRD YEAR.
2. DEMONSTRATIONS IN SURGICAL PATHOLOGY AND EXPERIMENTAL SURGERY. One hour a week during the year.  
   PROFESSOR BARTLETT.
3. LECTURES ON THE PRINCIPLES OF SURGERY. 1 hour a week during the year.  
   PROFESSOR TUHOLSKIE.
4. LECTURES AND DEMONSTRATIONS ON FRACTURES AND DISLOCATIONS. ROENTGENOLOGY. 2 hours a week during the year.  
   PROFESSOR BLAIR.
5. SURGICAL CLINIC. At Washington University Hospital Dispensary, 2 hours a week during the year. Sections of one half the class.  
   PROFESSOR TUHOLSKIE AND CLINICAL PROFESSOR JONAS.
6. SURGICAL CLINIC. At Mullanphy Hospital, 2 hours a week during the year. Sections of one half the class.  
   DR. CLOPTON.
7. SURGICAL CLINIC. At O'Fallon Dispensary, 2 hours a week during the year. Sections of one half the class.  
   DR. SCHLUETER.

FOURTH YEAR.
8. LECTURES ON THE PRACTICE OF SURGERY. 1 hour a week during the year.  
   PROFESSOR TUHOLSKIE.
9. LECTURES ON OPERATIVE SURGERY, WITH EXERCISES ON THE CADAVER. 2 hours a week in the seventh semester.  
   PROFESSOR TUPPER.
10. LECTURES ON THE SURGERY OF THE BRAIN AND SPINAL CORD. 1 hour a week in the eighth semester.  
   PROFESSOR MUDD.
11. SURGICAL CLINIC. At Mullanphy Hospital. 15 hours a week during the year. Sections of one fourth of the class. **Professor Carson.**

12. SURGICAL CLINIC. At Washington University Hospital. 6 hours a week during the year. Sections of one fourth of the class. **Clinical Professor Jonas, Drs. Deutsch and Robertson.**

13. SURGICAL CLINIC. At Washington University Hospital. 2 hours a week during the year. Entire class. **Professor Tuholske.**

14. SURGICAL CLINIC. At City Hospital. 1 hour a week during the year. Entire class. **Professors Tupper, Carson, and Mudd.**

**ORTHOPEDIC SURGERY.**

Orthopedic Surgery is taught by lectures and recitations to the third year class, and clinically to the Senior class. Congenital and acquired deformities, tuberculous and chronic joint deforming diseases, and loss of muscular function from the neuroses, are all fully considered and made plain by cases from practice.

**THIRD YEAR.**

15. ORTHOPEDIC SURGERY, semester. Lectures 1 hour a week in the sixth semester. **Professor Steele.**

**FOURTH YEAR.**

16. ORTHOPEDIC CLINIC. At Washington University Hospital Dispensary. 1 hour a week during the year. Sections of one fourth of the class. **Professor Steele.**

17. ORTHOPEDIC CLINIC. At O'Fallon Dispensary. 1 hour a week during the year. Sections of one eighth of the class. **Dr. Hoffmann.**

18. ORTHOPEDIC CLINIC. At Martha Parsons Hospital. 1 hour a week during the year. Sections of one eighth of the class. **Dr. Allison.**

**GENITO-URINARY SURGERY.**

In the courses on genito-urinary surgery the students have the advantage of a large out-clinic at the O'Fallon Dispensary and Washington University Hospital Dispensary, where daily clinics are held. At the St. Louis Mullanphy Hospital the privilege is presented of doing individual work in the wards and operating room in kidney, ureteral, and bladder technique.

**FOURTH YEAR.**

19. GENITO-URINARY SURGERY. Lectures, 1 hour a week in the seventh semester. **Professor Johnson.**

20. GENITO-URINARY CLINIC. At O'Fallon Dispensary. 2 hours a week during the year. Sections of one fourth of the class. **Professor Johnson.**

21. GENITO-URINARY CLINIC. At O'Fallon Dispensary. 2 hours a week during the year. Sections of one fourth of the class. **Clinical Professor Burnett.**
RECTAL SURGERY.

Lectures and clinical work in this specialty are conducted at the Washington University Hospital Dispensary in connection with the surgical clinics during the fourth year.

22. RECTAL CLINIC. At Washington University Hospital Dispensary 1 hour a week during the year. Sections of one fourth of the class. Clinical Professor Dixon.

OPHTHALMOLOGY.

Lectures and demonstrations are given for a period of one year. Daily clinics are given in the dispensaries. The classes are divided into sections and each section has the opportunity in turn of closely inspecting the patients with external inflammatory diseases of the eye, of seeing the method of applying the remedies, of making the commoner applications utilized in treatment, of learning the use of the ophthalmoscope so that each student may recognize the healthy fundus and its important diseased conditions.

THIRD YEAR.

23. LECTURES ON THE PRINCIPLES OF OPHTHALMOLOGY. 1 hour a week in the sixth semester. Professors Green and Ewing.

24. EYE CLINIC. At O'Fallon Dispensary. 1 hour a week in the sixth semester. Professor Ewing, Clinical Professors Shoemaker and Charles.

25. EYE CLINIC. At Washington University Hospital Dispensary. 1 hour a week in the sixth semester. Sections of one half of the class. Professor Wolfner and Dr. Wiener.

FOURTH YEAR.

26. EYE CLINIC. At O'Fallon Dispensary. 1 hour a week in the seventh semester. Sections of one half of the class. Professors Ewing, Shoemaker, and Charles.

27. EYE CLINIC. At Washington University Hospital. 1 hour a week in the seventh semester. Sections of one half of the class. Professor Wolfner and Dr. Wiener.

OTOLOGY.

The lectures and clinical demonstrations present the surgical anatomy of the ear and nose, the physiology of these organs, the methods of examination, the more important diseases, the therapy and surgical treatment of nasal and aural affections.

THIRD YEAR.

28. LECTURES ON DISEASES OF THE EAR, WITH CLINICAL DEMONSTRATIONS. 1 hour in the sixth semester. Professor Spencer.

FOURTH YEAR.

29. EAR CLINIC. At O'Fallon Dispensary. 2 hours a week during the year. Sections of one fourth of the class. Professor Shapleigh and Dr. Koetter.

30. EAR CLINIC. At Washington University Hospital Dispensary. 2 hours a week during the year. Sections of one fourth of the class. Professor Spencer and Dr. Selden Spencer.
LARYNGOLOGY AND RHINOLOGY.

Instruction consists of lectures and demonstrations, and of training in the use of instruments. For the practical work at the dispensaries, the class is divided into small sections.

FOURTH YEAR.

31. NOSE AND THROAT CLINIC. At Mullanphy Hospital. 2 hours a week during the year. Sections of one fourth of the class.
   Professor Senseney.

32. NOSE AND THROAT CLINIC. At O'Fallon Dispensary. 2 hours a week during the year. Sections of one fourth of the class.
   Professor Sluder.

33. NOSE AND THROAT CLINIC. At Washington University Hospital Dispensary. 2 hours a week during the year. Sections of one fourth of the class.
   Dr. Creveling and Dr. Sauer.

34. LECTURES ON ORTHODONTIA. 1 hour a week for four weeks.
   Dr. Lischer.

Graduate Courses.

ADVANCED STUDY AND RESEARCH. The rapid development of medical science has necessitated the introduction of many new subjects into the curriculum, and this has led practitioners, who wish to keep abreast of the times, to return to the Medical School in order to take special courses in the newer subjects. The frequency of requests for advanced work has induced the faculty to admit medical graduates to any one or more of the regular courses. While no graduate school in medicine has been established, ample facilities are presented for advanced study and research, and encouragement is given in every possible way to investigators.

Clinical instruction is given in the Washington University Hospital, in the Washington University Hospital Dispensary, O'Fallon Dispensary, Mullanphy Hospital, and the out-patient department of that institution, Bethesda Hospital, and the eleemosynary institutions of the city. These hospitals afford an abundance of clinical material.
## Schedule of Lectures and Clinics, Semester I—8 Weeks, Sept. 28 to Nov. 21, 1908.

---FRESHMAN CLASS---

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Schedule of Lectures and Clinics, Semester II—March 15 to May 15, 1909.

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### Schedule of Lectures and Clinics, Semester IV—Feb. 1 to May 15, 1909.

#### SOPHOMORE CLASS

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# Schedule of Lectures and Clinics, Semester V—Sept. 28 to Jan. 30, 1909.

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### JUNIOR CLASS

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**SENIOR CLASS**

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Note.—CAPITALS denote lecture courses, ordinary type, clinical courses.

Note.—CAPITALS denote lecture courses, ordinary type, clinical courses.
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Note.—Capitals denote lecture courses, ordinary type, clinical courses.
Table Showing the Distribution and Amount of Time Devoted to each Subject in the Entire Course.

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**NOTE**—Attendance on confinement cases from Maternity Clinic NOT INCLUDED.

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Special Clinics.

During Commencement Week of the session of 1903-09, there will be held a series of clinics and lectures designed especially for practitioners. In designing the instruction offered in this course, the needs of the practitioner have been kept in view, and so far as possible the work has been made of purely practical character. In all the courses the work is of a nature to appeal to the surgeons and general practitioners who wish to complete their knowledge of the newer subjects that have come out during the year.

The number of attendants upon certain clinical courses will be necessarily limited, in order that close personal attention may be accorded, and admission under the circumstances will be made in order of application. The faculty of the Medical School invite all physicians, graduates of this department, and of other medical schools, who are interested, to take this work. No fees are charged.

From May 26th to June 1st, 1908, inclusive, the following program was carried out with entire success, and the following list of physicians were in attendance:

PROGRAMME OF CLINICS
by the
Medical School, Washington University.

May 25th to June 1st, 1908.

Tuesday, May 26th, 1908.
9 to 11 a.m.—Obstetrical Clinic at Washington University Hospital. Professor Schwarz.
11 to 12 m.—Medical Clinic at O'Fallon Dispensary. Professor Brookes.
2 to 3 p.m.—Clinic for Diseases of the Nose and Throat at O'Fallon Dispensary. Professor Sluder.
2 to 4 p.m.—Proctological Clinic at Washington University Hospital. Professor Dixon.
3 to 4 p.m.—Orthopedic Clinic at O'Fallon Dispensary. Dr. Hoffman.

Wednesday, May 27th, 1908.
9 to 12 a.m.—Surgical Clinic at St. Luke's Hospital. Professor Mudd.
9 to 12 a.m.—Surgical Clinic at St. Anthony's Hospital. Professor Bartlett.
1 to 2 p.m.—Uranalytical Demonstration at College Building. Professor Warren.
2 to 3 p.m.—Otological Clinic at O'Fallon Dispensary. Professor Shapleigh.
3 to 4 p.m.—Anatomical Demonstrations at College Building. Illustrated with the Epidiascope. Professor Terry.
4 to 5 p.m.—Physiology and Surgery of the Blood Vessels, with Demonstrations, at College Building. Professor Guthrie.

Thursday, May 28th, 1908.
9 to 10 a.m.—Gynecological Clinic at St. Louis Mullanphy Hospital. Professor Glasgow.
<table>
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<tr>
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<tr>
<td>John A. Leavy</td>
<td>4340 Morgan street, St. Louis.</td>
</tr>
<tr>
<td>W. J. Gundelach</td>
<td>4477 Washington boul., St. Louis.</td>
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<tr>
<td>B. X. Corbin</td>
<td>Schuyler, Neb.</td>
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<tr>
<td>Moses Haynes</td>
<td>Vandalia, Ill.</td>
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<td>S. S. Boulton</td>
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<td>Walter E. Gibson</td>
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### Register of Students.

#### Senior Class.

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<tr>
<td>Castlen, Charles Ruby</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Cayo, Ernest P.</td>
<td>Wheatland, Canada</td>
</tr>
<tr>
<td>Chamberlain, Raymond Webster</td>
<td>Fisher, Ill.</td>
</tr>
<tr>
<td>Chapin, John Endicott, A. B</td>
<td>Syracuse, N. Y.</td>
</tr>
<tr>
<td>Chilton, Frank Nifong</td>
<td>Harrisonville, Mo.</td>
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<tr>
<td>Clark, Ira Ross</td>
<td>East St. Louis, Ill.</td>
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<tr>
<td>Coffin, Ernest Linwood</td>
<td>Ashland, Maine</td>
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<tr>
<td>Cooke, Edward Patrick</td>
<td>Milwaukee, Wis.</td>
</tr>
<tr>
<td>Davis, William Devine</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Denny, Leonard Halleck</td>
<td>Brighton, Ill.</td>
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<tr>
<td>Derfner, Morris Edwin</td>
<td>Novinger, Mo.</td>
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<tr>
<td>Elliott, Carey Baker</td>
<td>Tyrone, Okla.</td>
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<tr>
<td>Gardner, Charles Campbell</td>
<td>Lehigh, Okla.</td>
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<tr>
<td>Gibbs, Harry Wernerke</td>
<td>Curryville, Mo.</td>
</tr>
<tr>
<td>Hoberecht, Carl Albert</td>
<td>Sedalia, Mo.</td>
</tr>
<tr>
<td>Hogan, Robert E.</td>
<td>West Plains, Mo.</td>
</tr>
<tr>
<td>Horat, Otto Carl</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Howell, John F. O.</td>
<td>Palmyra, Mo.</td>
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<tr>
<td>Kleinschmidt, Harry Edwin</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Landree, James Clifford</td>
<td>Economy, Mo.</td>
</tr>
<tr>
<td>Lincoln, Cicero Lee Jr.</td>
<td>Columbus, Miss.</td>
</tr>
<tr>
<td>McAuliffe, Percy J.</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>McGinniss, Clive Sidney</td>
<td>Oak Hill, Mo.</td>
</tr>
<tr>
<td>McNulty, John Benjamin</td>
<td>Memphis, Tenn.</td>
</tr>
<tr>
<td>Macklin, Lurin Patrick</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Margulis, Abraham A.</td>
<td>St. Louis, Mo.</td>
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<tr>
<td>Marshall, Harley</td>
<td>Avalon, Mo.</td>
</tr>
<tr>
<td>Nugent, Jesse T.</td>
<td>Paris, Mo.</td>
</tr>
<tr>
<td>Paschall, Jesse B.</td>
<td>Fulton, Ky.</td>
</tr>
<tr>
<td>Potts, John</td>
<td>Chicago, Ill.</td>
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<tr>
<td>Press, Maurice Jerome</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Pugh, Walsie Newton, Ph.G.</td>
<td>Fulton, Mo.</td>
</tr>
<tr>
<td>Quade, Omar H.</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Seabold, John Albert</td>
<td>Baltimore, Md.</td>
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<tr>
<td>Sewing, Arthur H.</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Stone, Archie Redd</td>
<td>Palmyra, Mo.</td>
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<tr>
<td>Taylor, Thomas Wilfred</td>
<td>Piqua, Ohio</td>
</tr>
<tr>
<td>Thaler, Wm. Ph.G.</td>
<td>St. Louis, Mo.</td>
</tr>
</tbody>
</table>

(72)
Junior Class.

Theodoroff, Christo .................................................. Sofia, Bulgaria
Tuholskie, Lister H., A.B. ........................................... St. Louis, Mo.
Von Schrader, Alleyne ............................................... Jefferson Barracks, Mo.
Weintraub, Solomon A. ................................................ St. Louis, Mo.
Weiss, Richard S. ..................................................... St. Louis, Mo.

Total 48.

Blackburn, Porter Douglass ........................................ Houstonia, Mo.
Burns, Stanley Sherman ............................................. Belleville, Ill.
Cowdin, Frederick Putman, A.B. .................................... Chapin, Ill.
Craig, Harry E. .......................................................... Kimmundy, Ill.
Dickerson, Cecil H., A.B. ............................................. Conway, Ark.
DeGaris, Charles Francis ............................................ Hannibal, Mo.
DeHaan, Adrian John .................................................. St. Louis, Mo.
Dappe, Arthur H .......................................................... Beardstown, Ill.
Fay, Harold Wm. .......................................................... St. Louis, Mo.
Frank, Walter Emile ................................................... St. Louis, Mo.
Frech, Lee Orville ..................................................... White Hall, Ill.
Gartlit, Arnold ........................................................... St. Louis, Mo.
Garrison, Isaac L., B.S. ............................................... Wayne City, Ill.
Griesbaum, Philip, Ph.G ............................................. New Baden, Ill.
Gronoway, Terrance ................................................... Macon, Mo.
Hagler, Frederic .......................................................... Virden, Ill.
Hamlin, Joseph Reagan, Ph.B. ....................................... St. Louis, Mo.
Hardaway, Robert Morris, Jr. ....................................... Glasgow, Mo.
Harmon, Charles Frederick ........................................... New Palestine, Ill.
Howe, Guy Livingston ................................................ St. Louis, Mo.
Kaplan, Maurice Isadore ............................................. Burlington, Iowa
Keim, John Philip ...................................................... St. Louis, Mo.
Kimzey, Logan Guernsey .............................................. DuQuoin, Ill.
Knecht, Louis Bernard ................................................ Poplar Bluff, Mo.
Lamb, Harvey Densmore, A.B. ......................................... St. Louis, Mo.
Lorton, Thomas, B.S. .................................................. Herrick, Ill.
Luckey, Horace Leslie ................................................ Festus, Mo.
Lutterloh, Pearlie Watson ............................................. Jonesboro, Ark.
Ming, Charles Morris .................................................. Clinton, Mo.
Morrison, Claude E., A.B. ............................................ Pullman, Washington
Moskop, Peter G. ....................................................... St. Louis, Mo.
Muller, Carl J ............................................................. St. Louis, Mo.
Muller, Moritz Hugo .................................................. Bienna, Switzerland
Petit, Julian Caesar, A.B. .......................................... St. Louis, Mo.
Pickrell, Claude Dildine, A.B. ..................................... St. Louis, Mo.
Price, Elwyn Dene ..................................................... Versailles, Mo.
Ramzi, Abdul Aziz ...................................................... Assiout, Egypt
Reuss, Harry Pierce .................................................. Belleville, Ill.
Richey, George Fenton .............................................. Rushville, Ill.
Schwartz, Fred Oscar ................................................ St. Louis, Mo.
Sherman, Edgar P ........................................................ Mobile, Ala.
Simon, Selig Joseph ................................................... St. Louis, Mo.
Smith, George F .......................................................... Maume, Ill.
Smith, William Alexander ........................................... Fayette, Mo.
Steinmann, William A. H ............................................ St. Louis, Mo.
Stokey, John David ................................................... Belleville, Ill.
Sutton, Dewey ............................................................ Sioux Rapids, Iowa
Thorne, Wilcox G ....................................................... Anna, Ill.
Sophomore Class.

Atwood, William G. ........................................... Carrollton, Mo.
Beatty, John F. .................................................. Granite City, Ill.
Broemser, Milton Augustus ...................................... Webster Groves, Mo.
Campbell, Frank McLean ......................................... St. Louis, Mo.
Davis, Thomas Miller .......................................... St. Louis, Mo.
DeMasy, Arthur H. ...................................... Webster Groves, Mo.
Derivaux, Robert Clarence ........................................ St. Louis, Mo.
Doolin, Thomas Carlisle ....................................... Ash Grove, Mo.
Fickel, Will Hanna Jr. ........................................ Columbia, Mo.
Haglin, Edward W. ............................................. St. Louis, Mo.
Harrison, Ernest F. ............................................ Kennett, Mo.
Holaday, Charles H., A.B. ..................................... Flora, Ill.
Lewald, James ................................................................ St. Louis, Mo.
Like, Ottis ...................................................... Monroe City, Ind.
Mestemacher, Louis H ........................................... St. Louis, Mo.
Meyer, Alphonse Herman ......................................... Memphis, Tenn.
Penney, David Litchfield ....................................... St. Louis, Mo.
Plasmann, Walter F. ........................................... Granite City, Ill.
Pratt, Fabian L. .................................................. Pittsfield, Ill.
Pringle, John A. .................................................. Kirkwood, Mo.
Roeslein, Fred Leo .............................................. St. Louis, Mo.
Rohlfing, W. A. .................................................. Newton, Ill.
Smith, Oda Oscar .................................................. St. Louis, Mo.
Smith, Merrill Neville, A.B. .................................... Louisville, Ill.
Vickrey, Aden Cobbs ........................................... Joplin, Mo.
Watkins, George Lancaster ..................................... Total 26.

Freshman Class.

Bonney, Stephen F., B.S. ........................................ La Grange, Mo.
Bowles, Thomas Kinsey ........................................ Kirkwood, Mo.
Brossard, John Julian ........................................... Kirkwood, Mo.
Burick, Charles Henry .......................................... St. Louis, Mo.
Clithero, William Harvey ....................................... Vandalia, Mo.
Doellefeld, Adam H. ............................................. St. Louis, Mo.
Empson, Roy George, A.B. ..................................... Harrisburg, Ill.
Everhardt, Paul Jacob ........................................... Sheboygan, Wis.
Fillmore, Rollin S. Jr. .......................................... Blue Rapids, Kan.
Finch, Rolla D. .................................................. Flora, Ill.
Frank, Walter Leslie, B.S. ...................................... Sedalia, Mo.
Forward, Charles Pulford ....................................... St. Louis, Mo.
Furlong Jr., Thomas ............................................ St. Louis, Mo.
Gibbs, Fred Leonard ............................................ Curryville, Mo.
Grassel, Albert George, B.S. .................................... Butler, Ill.
Creditzer, Harry Gus ............................................. St. Louis, Mo.
Hardaway, Francis Page .......................................... St. Louis, Mo.
Heimburger, LeRoy Francis ..................................... Fort Madison, Iowa
Hoffmeister, Paul Lewis ......................................... Granite City, Ill.
Howe, Elmer W. C. Demiling .................................... St. Louis, Mo.
Heuer, Scott .......................................................... Rock Island, Ill.
Itermann, George Edward ........................................ Total 36.
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
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<tbody>
<tr>
<td>Kelpe, John F</td>
<td>Centaur, Mo.</td>
</tr>
<tr>
<td>Klippel, Benj. W. N.</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Lueke, Eugene Milton</td>
<td>Palmyra, Mo.</td>
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<tr>
<td>Megee, Otto Kent, A.B.</td>
<td>Moberly, Mo.</td>
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<tr>
<td>McKenney, James Allen</td>
<td>Maywood, Mo.</td>
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<td>McMurdno, Ward Fenton</td>
<td>Marissa, Ill.</td>
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<tr>
<td>Mitchell, Erst</td>
<td>Licking, Mo.</td>
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<tr>
<td>Mitchell, Ray</td>
<td>Salem, Mo.</td>
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<tr>
<td>Murphy, John</td>
<td>O'Fallon, Ill.</td>
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<tr>
<td>Mutschmann, L. F</td>
<td>Belleville, Ill.</td>
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<td>Niess, Leonard</td>
<td>New Madrid, Neb.</td>
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<tr>
<td>O'Bannon, William N</td>
<td>Salter, Mo.</td>
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<tr>
<td>Pemberton, Maurice Orear</td>
<td>Winterville, Ga.</td>
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<td>Pittard, Linton Yancy</td>
<td>Doniphan, Mo.</td>
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<td>Proctor, Carter Atwater</td>
<td>St. Louis, Mo.</td>
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<tr>
<td>Proetz, Arthur Walter</td>
<td>Nashville, Ill.</td>
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<tr>
<td>Rabenneck, Paul B</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Robins, Julius</td>
<td>Belleville, Ill.</td>
</tr>
<tr>
<td>Schneller, Otho Emil</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Schnell, Benjamin Casper Clifford</td>
<td>New York City</td>
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<tr>
<td>Schulz, A. F. Erich</td>
<td>St. Louis, Mo.</td>
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<tr>
<td>Schwarz, Otto Henry</td>
<td>St. Louis, Mo.</td>
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<tr>
<td>Shumaker, Charles Henry</td>
<td>Bible Grove, Ill.</td>
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<tr>
<td>Slaughter, Theron Hart</td>
<td>Springdale, Ark.</td>
</tr>
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<td>Suffrin, Joseph</td>
<td>St. Louis, Mo.</td>
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<tr>
<td>Van Raalte, Martin</td>
<td>St. Louis, Mo.</td>
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<tr>
<td>Wallantine, Ray Nathaniel</td>
<td>Paris, Idaho</td>
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<tr>
<td>Weber, James August</td>
<td>Olney, Ill.</td>
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<tr>
<td>Will, Waldo Theodore</td>
<td>Mehlville, Mo.</td>
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<tr>
<td>Williams, Paul Raymond</td>
<td>Cape Girardeau, Mo.</td>
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<tr>
<td>Wood, Visscher Vivian</td>
<td>Warrensburg, Mo.</td>
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**Total 53.**

**Special Students.**

<table>
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<tr>
<th>Name</th>
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<tr>
<td>Lutz, Anton Lee</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Ryan, Andrew Howard</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Joseph, Raymond</td>
<td>Normal, Ill.</td>
</tr>
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<td>Stevens, Hirrel, A.B.</td>
<td>St. Louis, Mo.</td>
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<td>Ewerhardt, Frank Henry</td>
<td>St. Louis, Mo.</td>
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**Total 5.**

**Graduates.**

<table>
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<th>Name</th>
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<tr>
<td>Bates, Conway</td>
<td>Clayton, Mo.</td>
</tr>
<tr>
<td>Blanks, C. L.</td>
<td>Farmington, Mo.</td>
</tr>
<tr>
<td>(Beaumont Med. Col., '92), Ear, Eye, Nose, and Throat.</td>
<td></td>
</tr>
<tr>
<td>Calhoun, James G.</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Grim, Ezra C.</td>
<td>Kirksville, Mo.</td>
</tr>
<tr>
<td>Hardy, William Frederick</td>
<td>St. Louis, Mo.</td>
</tr>
</tbody>
</table>


Simonds, James P. . . . . . . . . . . . . . . St. Louis, Mo. (Rush Med. Col., ’07), Anatomy.


Van Hoefen, Sigfried A. . . . . . . . . . . . . . . Baden, Mo. (St. Louis Col. P. & S., ’02), Ear, Eye, Nose, and Throat.

Total 12.

Unclassified.

Green, Louie H. . . . . . . . . . . . . . . Alto Pass, Ill.

Jackson, Frederick Ellsworth, A.B. . . . . . . . Bedford, Ind.

Jones, William Edgar . . . . . . . . . . . . . . Plummerville, Ark.

Murdoch, Matthew Thomson . . . . . . . . . . Waukomis, Okla.

Tyzzer, Robert Neal . . . . . . . . . . . . . . St. Louis, Mo.

Young, Carl . . . . . . . . . . . . . . Honolulu, P. I.

Total 6.

SUMMARY OF STUDENTS IN THE MEDICAL SCHOOL.

Senior . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 48

Junior . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 51

Sophomore . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 26

Freshman . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 53

Specials . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 5

Graduates . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 12

Unclassified . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 6

Total . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 201
Degrees Conferred.

(May 28, 1908).

DOCTOR OF MEDICINE.

Sayid Bahgat Abaza
William L. Abney Jr.
Perry Clifford Archer
James Joseph Barry Jr.
Angus J. Barter, A.B.
Charles Wallace Bassett
Frederick William Bechtold
Grover Cleveland Black
William James Blackard
Eli Thomas Brand
Benjamin Brandt
John Chisholm Breedlove
Guy Young Briggs
Jesse Jerome Burdick
William D. Chapman
Frank L. Davis
Walter Albert Dew
Delmer R. Duesy
George Washington Duncan
Ellis Fischel, A.B.
Lloyd E. Goodpasture
Victor Maurice Gore
Gary Thomas Gossard
Charles Armin Gundelach
John Randolph Hall
Bert Witham Hardy
Daud Helmy
Theodore Carl Hempelmann
Samuel Herskovitz

Walter Roy Hewitt
Halbert Rowland Hill
A. Dana Hobson
Phelps Grant Hurford
Perry Wells Jennings
William Kerwin
George Matthew Kesl
Frank William Klocke
William A. Kluegel
Abdel Rahman Lozi
Gurley Curtis McCoy
William Day Moore
Wilson Albert Olds Jr.
James Eugene Prichard
Oscar Jacobus Raeder
Harry Rich
Harry Sandperl
John S. Sheets
Henry Joseph Smith
Elmer Phillip Stiehl
Charles Allen Stone, B.S.
Walter Edward Sturgis
Finis Clifford Suggett
Randall Solon Tilles
Leland Peak Viley Jr., A.B.
Harvey Monroe Wall
George Washington Westermeier
Henry McClure Young, A.B.
Yousef Zaki

Garfield Eugene Hertel
MAP OF THE
CITY OF ST. LOUIS
Showing the location of the Campus,
and the various buildings of
WASHINGTON UNIVERSITY.
Together with the principal street car lines,
leading to the University.
Washington University

David F. Houston, A.M., LL.D., Chancellor

I  The Department of Arts and Sciences

A  The College
   Marshall S. Snow, A.M., LL.D., Dean

   The College includes among its different departments

1  The Henry Shaw School of Botany
   Wm. Trelease, S.D., LL.D., Engelmann
   Professor of Botany

2  The Correspondence School
   Squire F. Browne, A.B., Director

B  The School of Engineering and Architecture
   C. M. Woodward, Ph.D., LL.D., Dean
   Civil, Mechanical, Electrical, and Chemical Engineering, and Architecture

II  The School of Fine Arts
   Edmund H. Wuerpel, Director

III  The Law School
    W. S. Curtis, LL.D., Dean

IV  The Medical School
    W. H. Warren, Ph.D., Dean

V  The Dental School
    John H. Kennerly, M.D., D.D.S., Dean

The following schools are also conducted under the charter of the University:

   Smith Academy—for boys
      Frank Hamsher, A.B., Principal

   Manual Training School—for boys
      C. M. Woodward, Ph.D., LL.D., Director
      W. R. Vickroy, Ph.B., Principal

   Mary Institute—for girls
      Edmund H. Sears, A.M., Principal