HOWARD UNIVERSITY

Forty-Ninth Annual Announcement

OF THE

SCHOOL OF MEDICINE

INCLUDING

The Medical, Dental and Pharmaceutic Colleges

Fifth and W Streets Northwest

WASHINGTON, D. C.

1916-1917
CALENDAR

September 25,
Monday: Examination for advanced standing.

October 2,
Monday: Opening of the Session; Matriculation.

October 12,
Thursday: Last Day of Registration.

November 22 to 26, inclusive,
Wednesday to Sunday: Thanksgiving holidays.

December 22, 1916, to January 1, 1917,
Friday to Monday: Christmas holidays.

May 15, 1917,
Wednesday: Examinations begin.

June 5, 1917,
Wednesday: Commencement day.
SCHOOL OF MEDICINE.
INCLUDING THE
MEDICAL, DENTAL, AND PHARMACEUTIC COLLEGES

HISTORY

Howard University was chartered by Act of Congress, March 2, 1867. Section 5 of the charter provided that the University should consist of the following departments—“fifth, medicine.” November 5, 1868, the first session began and ended March 1, 1869.

The Department has up to date graduated 1,594 students—989 medical, 335 dental, and 270 pharmaceutical. In conformity with the spirit of the charter of the University, the Medical Department, including the Medical, Dental and Pharmaceutical Colleges, is open to all persons, without regard to sex or race, who are qualified by good moral character, proper age and suitable preliminary education.

The Forty-ninth Annual Session will begin October 1, 1916, and continue until June 5, 1917.

WASHINGTON CITY

The city affords special facilities for the study of medicine and the allied subjects.

There are libraries rich in medical books, which may be consulted by the students. That of the Surgeon General's office contains over 150,000 works on medicine and collateral sciences. The Library of Congress contains about a million books, many of which are medical. The Patent Office Library also contains many books of the same kind. The reading rooms of these institutions are open from 9 to 4.30 o'clock daily, except Sundays; those of the Library of Congress are open also on Sundays and in the evenings.

Our Carnegie Library, situated on the campus, contains about 25,000 books and 15,000 pamphlets. A branch library has been established at the School of Medicine, where the leading medical, dental and pharmaceutical journals, bulletins, text-books and reference works may be found.

The Army Medical Museum is the finest of its kind in the world. The specimens illustrate the diseases and injuries of both civil and military life, normal anatomy, both human and comparative, and medical, surgical and transportation appliances—in all about 50,000 specimens. Open daily, except Sundays, from 9 to 4.30 o'clock. The National Museum and Smithsonian Institution have the largest and best collection in the coun-
try, illustrating the natural sciences. The specimens of Materia Medica:
are useful to medical and pharmacutic students. Open daily, from 9 to
4:30 o'clock. The Museum of Hygiene is under the charge of the
Surgeon General of the Navy, and contains, as the name indicates, illus-
trations of sanitary arts. Open daily, except Sundays, from 9 to 4:30
o'clock. The Agricultural Department contains a museum of the products
of agriculture; the Botanic Gardens, a collection of plants of all coun-

GENERAL INFORMATION

FREEDMEN'S HOSPITAL

On the square adjacent to that on which the Medical College Buildings
stand have been erected hospital buildings at a cost of $600,000.

The hospital has the advantage of being designed primarily for teach-
ing purposes, as practically all of the patients admitted are utilized freely
for instruction. The hospital has about 300 beds and contains two clinical
amphitheatres, pathologic laboratory, clinical laboratories, and a room
for x-ray diagnostic work and x-ray therapy. The Medical Faculty prac-
tically constitutes the Hospital Staff. They are the physicians who attend
regularly upon the patients (each upon such cases as come within his
special department). Special attention is given to bedside instruction.
Clinics are held every day during the year, except Sundays, and exami-
inations are made, prescriptions given, and surgical operations performed
in the presence of the classes or of sections thereof.

The patients are assigned to students who take the histories of the
cases, make the physical examinations, the diagnosis and prognosis and
suggest the line of treatment or operative procedure thought necessary,
under the direction of the professor in charge. The clinical laboratories
are under the direction of the departments of internal medicine, surgery,
gynecology and nervous diseases, are all especially equipped, and furnish
facilities for the scientific study of cases, and are freely used by students
as time and space permit. Stress is laid upon the value of ward and
bedside instruction. The character of the hospital is such that this
method of instruction can be carried out more fully and more systematic-
ally than in many other hospitals available for teaching purposes. The
practical hospital work which students of this department are able to do
is excelled by few medical schools. Much of the work of giving treat-
ment, of dressing wounds and of giving other detailed attention to patients
is carried out, under proper supervision, by senior students.

A lying-in ward is established in which senior students are required
to attend cases of labor and become familiar with the duties of
the lying-in ward, under the immediate direction of the professor of
obstetrics and his assistants. A large number of the cases admitted to
the hospital are from a distance, and are of more than common interest, including numerous surgical and gynecological cases requiring major operations. There are also many cases of diseases of the lungs, heart, blood, digestive system, the kidneys, and nervous system. The eye, ear, nose and throat services are large and replete with instructive cases. Patients with contagious diseases are treated in the isolation room of the hospital.

THE MEDICAL COLLEGE

The Medical Department is situated on W Street, N. W., between Fifth and Sixth Streets. The LeDroit Park cars pass by the buildings, and the Seventh Street, Ninth Street and U Street lines are within a few blocks, so that in ten minutes a student can reach the heart of the city.

ROOMS AND BOARD

The Secretary keeps a list of places where rooms and board may be obtained at reasonable prices.

RULES GOVERNING THE STANDING OF STUDENTS

In the future the marking of students, which is in accordance with the rules of the Association of American Medical Colleges, will be as follows: A, Excellent; B, Good; C, Passed; D, Failed, must take examination over again; E, Must repeat the course.

Each student is obliged to attend eighty per cent of the exercises in every course of study for which he seeks credit. Students must obtain a passing grade in each study in order to receive credit for the same. Students failing in three or more studies in any year will be required to repeat the work of that year, or, by vote of the Faculty, may be advised to terminate their connection with the school. Students, except seniors, failing in less than three studies in any one year, will be allowed a re-examination in such studies. Students failing in not more than two studies, may be conditioned in such studies, but said conditions must be removed during the first half of the ensuing year. Senior students who fail in any subject must repeat the work of the entire year. The work of making up conditions must be done outside of the regular scheduled hours.

A student whose work, for any reason, is not satisfactory will be so notified, and if no improvement is noted, he must expect to be asked to terminate his connection with the school.

The same principle will apply to candidates for graduation. The only standard for graduation will be the judgment of the Faculty that the candidate for graduation is qualified for the degree of doctor of medicine, dentistry, or pharmacy.
Clinics are held as indicated in the schedule of hours.
Seniors and juniors are required to attend these clinics, and their attendance and proper performance of their practical work will enter largely into determining their promotion or graduation.
Dental and pharmaceutic students must also attend the practical work of the Dental Infirmary and Hospital Dispensary, respectively, as well as the laboratory work in their respective Colleges.

**POST-MORTEMS**

Post-mortem examinations will be made as often as possible, and students will be required to attend and assist. This will afford an excellent opportunity for the study of both normal and morbid anatomy, as well as the steps of the operation itself.

**FEES**

The College fees and cost of books, instruments, board, room, laundry and incidentals will hardly be less than $300 per session of thirty-two weeks.

- Examination fee, *i.e.*, for all new students: $5.00
- Matriculation, *i.e.*, for new students; paid once: $5.00
- Tuition, Medical College, per session: $100.00
- Laboratory fee: $25.00
- Tuition, Dental College, per session: $80.00
- Laboratory fee: $20.00
- Tuition, Pharmaceutic College, per session: $80.00
- Laboratory fee: $10.00
- Graduation fee: $7.00
- Library fee: $1.00
- Athletic fee: $1.00

*A laboratory deposit will be required for breakage, and must be paid before the student is admitted to the laboratory. This will be returned at the end of the session if there is no destruction of property.*

All fees are paid to the Treasurer of the Faculty, William C. McNeill, and are payable, *half on registration, and half on the first of the following January.*

All fees must be paid before a student is admitted to his classes.

**LECTURES AND RECITATIONS**

Instruction is given in this school by didactic and clinical lectures, recitations and practical laboratory and bedside work. Students will not be allowed to absent themselves from lectures, recitations, laboratory work, clinical lectures and other practical exercises of their respective years.
Instructors keep a record of attendance and report to the Secretary of the Faculty.

Examinations will be held in the several subjects at such times as the professors may determine, and at the close of the session. Any student failing to pass examinations after three attempts in any subject will be advised to discontinue his connection with the school. Absence from one-fifth or more of a course will render a student ineligible for examination.

SPECIAL NOTICES

I. SECTION 1. "EVERY COLLEGE HOLDING MEMBERSHIP IN THIS ASSOCIATION SHALL, ON AND AFTER JANUARY 1, 1912, REQUIRE FOR MATRICULATION A COMPLETED OR UNCONDITIONED MEDICAL STUDENT'S CERTIFICATE, TO BE GRANTED BY A STATE MEDICAL EXAMINING AND LICENSING BOARD, OR A BOARD EMPOWERED BY STATUTE TO GRANT SUCH CERTIFICATES."—ARTICLE III, SECTION 1, CONSTITUTION OF THE ASSOCIATION OF AMERICAN MEDICAL COLLEGES.

Prospective medical students will do well to remember the above requirements, and secure their medical certificates before coming to the medical college.

II. THE MEDICAL COLLEGE OF HOWARD UNIVERSITY IS NOW RECOGNIZED BY THE CONJOINT BOARD OF ENGLAND, AND ITS "GRADUATES ARE ADMITTED TO THE FINAL EXAMINATIONS OF THE BOARD IN MEDICINE, SURGERY, AND MIDWIFERY ON PRODUCTION OF EVIDENCE OF HAVING FULFILLED THE NECESSARY REGULATIONS IN REGARD TO GENERAL EDUCATION, AND TO THE PROFESSIONAL CURRICULUM EXTENDING OVER FIVE YEARS.

III. THERE ARE NO FUNDS AVAILABLE FOR HELPING STUDENTS IN THE SCHOOL OF MEDICINE. THE FACULTY ADVISES PROSPECTIVE STUDENTS NOT TO COME TO THE SCHOOL UNTIL THEY ARE ABLE TO PAY THEIR TUITION IN FULL, WITHOUT HAVING TO DEPEND UPON OUTSIDE EMPLOYMENT, AS THE SUCCESSFUL STUDY OF MEDICINE, DENTISTRY OR PHARMACY CAN BE DONE ONLY BY THOSE WHO DEVOTE ALL OF THEIR TIME TO IT.

IV. AT THE LAST MEETING OF THE NATIONAL ASSOCIATION OF DENTAL FACULTIES, IT WAS VOTED THAT, BEGINNING WITH THE SESSION OF 1917-18, THE SCHOOLS BELONGING TO THIS ASSOCIATION SHOULD INCREASE THEIR COURSE FROM THREE TO FOUR YEARS. THIS REQUIREMENT APPLIES TO THIS SCHOOL, AND WILL GO INTO EFFECT OCTOBER 1, 1916.

V. PROSPECTIVE MEDICAL, DENTAL OR PHARMACEUTICAL STUDENTS WILL SAVE TIME AND THE POSSIBILITY OF MISCARRIAGE OF THEIR MAIL, IF THEIR LETTERS OF INQUIRY ARE DIRECTED TO THE DEAN OR SECRETARY OF THE SCHOOL OF MEDICINE, FIFTH AND W STREETS, N. W., WASHINGTON, D. C.
THE MEDICAL COLLEGE.

REV. STEPHEN M. NEWMAN, A. M., D. D.
President of the University.

EDWARD A. BALLOCH, A. M., M. D., Dean
Professor of the Principles and Practice of Surgery and Clinical Surgery and Head of Department of Surgery.

DANIEL S. LAMB, A. M., M. D., LL. D., Vice Dean
Professor of Anatomy and Head of Department of Anatomy.

WILLIAM C. McNEILL, M. D., Secretary and Treasurer
Professor of Gynecology and Head of Department of Gynecology.

NEIL F. GRAHAM, M. D., LL. D.
Emeritus Professor of the Principles and Practice of Surgery.

CHARLES B. PURVIS, M. D., LL. D.
Emeritus Professor of Obstetrics and Gynecology.

WALTER W. ALLEGER, M. D., Phar. D.
Emeritus Professor of Bacteriology.

COLLINS MARSHALL, M. D.
Professor of Pathology and Clinical Microscopy and Head of Department of Pathology.

PAUL BARTSCH, M. S., Ph. D.
Professor of Histology and Physiologic Chemistry, Lecturer on Medical Zoology and Head of Department of Histology.

JOHN W. MITCHELL, M. D., Phar. D.
Professor of Materia Medica and Therapeutics and Head of Department of Materia Medica and Therapeutics.

ROBERT SCOTT LAMB, M. D.
Professor of Ophthalmology and Director of Eye Clinic.

HENRY P. PARKER, A. B., M. D.
Professor of the Principles and Practice of Medicine and Head of Department of Medicine.

ERNEST E. JUST, A. B., Ph. D.
Professor of Physiology and Head of Department of Physiology.

EDWARD D. WILLISTON, A. B., M. D.
Professor of Obstetrics and Head of Department of Obstetrics.

NEIL D. GRAHAM, A. B., M. D.
Professor of Hygiene and Preventive Medicine.

EDWARD H. REEDE, A. B., M. D.
Professor of Pediatrics and Clinical Pediatrics.

Professor of Bacteriology.
WILLIAM C. WOODWARD, M. D.
Professor of Medical Jurisprudence.

WILLIAM A. WARFIELD, M. D.
Professor of Abdominal Surgery; Surgeon in Charge of Freedmen's Hospital.

JAMES J. RICHARDSON, M. D.
Professor of Otology, Laryngology and Rhinology.

WILLIAM G. ERVING, A. B., M. D.
Professor of Orthopedic Surgery.

HARRY A. FOWLER, S. B., M. D.
Professor of Genito-Urinary Diseases.

HENRY H. HAZEN, A. B., M. D.
Professor of Dermatology.

CHARLES I. WEST, M. D.
Associate Professor of Anatomy.

AUSTIN M. CURTIS, A. M., M. D.
Associate Professor of Surgery.

ALBERT RIDGELEY, M. D.
Associate Professor and Demonstrator of Anatomy.

CARYL BURBANK, M. D.
Assistant Professor of the Principles and Practice of Medicine.

HERBERT C. SCURLOCK, A. M., M. D.
Lecturer on Electro-Therapy.

ROY D. ADAMS, M. D.
Lecturer on Embryology.

TOM A. WILLIAMS, M. B., C. M.
Lecturer on Nervous and Mental Diseases.

WILLIAM A. JACK, M. D.
Demonstrator of Practical Surgery.

WILLIAM F. SOWERS, A. B., M. D.
Instructor in Clinical Surgery.

CHARLES H. MARSHALL, M. D.
Clinical Assistant in Gynecology.

MILTON A. FRANCIS, M. D.
Clinical Assistant in Surgery.

HARRY H. KERR, M. D.
Instructor in Clinical Surgery.

LEWIS C. ECKER, M. D.
Clinical Assistant in Medicine.

RALPH B. STEWART, Ph. D., M. D.
Laboratory Assistant in Pathology.

HAMILTON S. H. MARTIN, M. D.
Clinical Assistant in Otology, Laryngology and Rhinology.
REQUIREMENTS FOR ADMISSION TO HOWARD UNIVERSITY MEDICAL COLLEGE.

The applicant for admission to the Medical College of Howard University must present to the Secretary of the Faculty of the College at least ten days before the opening of the College his credentials, properly signed, showing that he has successfully pursued the subjects mentioned below, under the conditions stated:

I. Those who have completed in a satisfactory way the Chemical-Biological course which leads to the A. B. degree in this University.

II. Those who possess a degree in Arts or Science from an approved college or scientific school, or are graduates of approved high schools, and who furnish satisfactory certificates showing that they have had two years of college work as follows:
- Physics: 120 hours of class work and 90 hours of quantitative work in the laboratory.
- Chemistry: lecture courses in inorganic and organic chemistry, with 150 hours of inorganic and 90 of organic laboratory work.
- Biology: lecture courses in General Biology and 180 hours of laboratory work.
- A reading knowledge of French or German.

III. Those who give evidence by examination that they possess the general education implied by a degree in Arts or Science from an approved college or scientific school, and in addition, the required knowledge of French, German, Latin, physics, chemistry and biology indicated in Section II.

APPLICATION BLANKS

APPLICATION FOR ADMISSION SHOULD BE MADE TO THE SECRETARY, WHO WILL FURNISH DETAILED INFORMATION AND BLANKS, RELATING TO THE PREVIOUS STUDIES OF THE APPLICANT.

CERTIFICATES

APPLICANTS ARE REQUIRED TO FURNISH DETAILED CERTIFICATES FROM OFFICERS OF THE COLLEGES OR SCIENTIFIC SCHOOLS AT WHICH THEY HAVE STUDIED AS TO THE COURSES PURSUED IN BIOLOGY, CHEMISTRY AND PHYSICS.

FOREIGN CERTIFICATES

STUDENTS WHO PRESENT CERTIFICATES FROM FOREIGN SCHOOLS MUST HAVE THEM ACKNOWLEDGED AND
SEALED BY SOME PROPERLY CONSTITUTED OFFICER OF THEIR GOVERNMENT IN ADDITION TO THE SEAL OF THE COLLEGE AND THE SIGNATURE OF THE HEAD OF THE SCHOOL.

REQUIRED SUBJECTS

Group I

English Language—3 units.
(a) English Grammar.
(b) Rhetoric and Composition.
(c) Reading Classics.

Group II

History—2 units.
History of the United States, as presented by standard authors, one unit.
General History as presented by Myer's, or equivalent text, one unit.
Greek and Roman History or English History will be accepted as a substitute for General History

Group III

Mathematics—3 units.
Algebra—through quadratics—standard authors, one unit.
Geometry—plane and solid—standard authors, one unit and a half.
Plane Trigonometry—one-half unit.

Group IV

Physics—two units.
In Physics the candidate should have followed a collegiate course for at least two years. This course should include two hours a week of classroom work, and at least four hours a week of quantitative work in the laboratory. Special attention should be given to theoretical mechanics, and to the mechanical and electrical experiments; or

Physics: 120 hours of class work and 90 hours of work in the laboratory for those taking the regular two years' college course.

Chemistry—two units.
The candidate should have followed a course in General Chemistry for at least two years. This course should include two hours a week class room work, and four hours a week of laboratory work through two years. The lectures and laboratory work must cover the outlines of inorganic and organic chemistry; or
Chemistry: lecture courses in inorganic and organic chemistry, with 150 hours of inorganic and 90 hours of organic laboratory work for those taking the regular two years' college course.

Botany and Zoology—one unit each.

The candidate should have followed for at least two years a laboratory course of six or more hours a week upon the structure, functions and life histories of selected types of animals and plants; or

Biology: lecture courses in General Biology and 180 hours of laboratory work for those taking the regular two years' college course.

Group V

Modern Languages—2 units.

French or German. The applicant must be able to read French or German.

Group VI

Latin—2 units.

(a) Grammar.

(b) Prose Composition.

(c) Reading—Four books of Caesar's Gallic War.

For those prospective medical students who cannot meet the above requirements, a seven years' course is recommended. Provision for such a course has been made in connection with the College of Arts and Sciences of Howard University.

COMBINATION COURSES

Students of the College of Arts and Sciences desiring to enter upon professional studies before graduation, who have completed not less than 99 units, may take the studies of the first year in the School of Medicine of Howard University, provided they can satisfy the stated requirements for admission thereto, and may receive the degree of A. B. or B. S., upon the satisfactory completion of one year's work.

For additional information, apply to the Secretary of the Medical Faculty, W. C. McNeill, M. D.

CREDIT FOR WORK IN ACCREDITED MEDICAL COLLEGES

It is considered desirable for students to complete their course in medicine at the institution at which they first matriculate. If, however, for any good reason, a change is desired, a student from another medical college recognized by this institution may be admitted to advanced standing under the following conditions:
First: He must present a letter of honorable dismissal from the school he attended, showing that he was in good standing and that all his bills were paid.

Second: He must present satisfactory evidence that he has, at the time he enters this College, fully completed the preliminary educational requirements for admission to the School.

Third: He must present credentials from the Dean or Secretary of the college which he has attended, properly signed and sealed, showing that he has been a registered medical student, and in residence for the time for which credit is sought.

Fourth: He must present satisfactory evidence from the college attended showing that the amount and character of work he has completed is such as to entitle him to the advanced standing he seeks in this College.

Credit may be given to the holder of a Bachelor's Degree from an approved college or university for any work in the medical branches which he has successfully completed in his college course, only so far as it is the full equivalent of corresponding work in the medical curriculum. The holder of such Bachelor's Degree may also be given time credits of not exceeding one year, provided that such student has had the required number of hours in physics and chemistry, 24 hours in osteology, 292 hours in human or comparative anatomy, 124 hours in histology, 85 hours in embryology, 200 hours in physiology and 90 hours in Materia Medica; provided, that the applicant for such time credits satisfies the professors of the chairs mentioned in the medical school as to his proficiency in these first-year medical studies. Such student may be allowed to complete a course for the medical degree in not less than 30 months, provided he completes the remainder of the medical curriculum in that time.

**CURRICULUM**

The curriculum comprises Anatomy, Histology, Embryology, Materia Medica, Physiology, Physiologic Chemistry, Pharmacology, Toxicology, Urinalysis, Bacteriology, Dietetics, Electro-Therapeutics, Hygiene, Medical Zoology, Pathology, Therapeutics, Clinical Microscopy, Dermatology, Minor Surgery, Obstetrics, Ophthalmology, Orthopedics, Pediatrics, Physical Diagnosis, Practice of Medicine, Surgery, Anaesthetics, Genito-Urinary Diseases, Gynecology, Laryngology, Otology, Rhinology, Medical Jurisprudence, Mental and Nervous Diseases, Tropical Medicine, and Post Mortem Work.

Students are required to attend at least four courses of lectures in separate years, and pass a satisfactory examination in each branch of study, before becoming eligible for the Degree of Doctor of Medicine.
The subjects of study for Freshmen are Anatomy, Histology, Physiology, Physiological Chemistry, Materia Medica, Pharmacology, Embryology. For Sophomores, Anatomy, Physiology, Urinalysis, Hygiene, Dietetics, Therapeutics, Toxicology, Bacteriology, Electro-therapeutics, General Pathology, Medical Zoology and Physical Diagnosis. For Juniors, Obstetrics, Practice of Medicine, Pediatrics, Surgery, Physical Diagnosis, Pathology, Dermatology, Clinical Microscopy and Ophthalmology. For Seniors, Practice of Medicine, Surgery, Gynecology, Ophthalmology, Otology, Orthopedics, Genito-Urinary Diseases, other specialties and Medical Jurisprudence. Post-mortem work as often as practicable, and available to all the classes.

GRADUATION

Candidates for the degree of Doctor of Medicine shall be at least twenty-one years of age and of good moral character and shall have attended four courses of lectures, etc., above described, at some regular medical college, the Senior course at least being at this College. They shall pass the final examination, and shall have paid their fees in full.

DEPARTMENT OF ANATOMY

DANIEL S. LAMB, A. M., M. D., LL. D.

Professor and Head of the Department of Anatomy.

CHARLES I. WEST, M. D.

Associate Professor of Anatomy, Lecturer on Topographic Anatomy.

ALBERT RIDGELEY, M. D.

Associate Professor of Anatomy, Demonstrator of Anatomy.

The lectures on descriptive anatomy will cover the most important subjects from a medical and surgical point of view and will be illustrated with drawings, plates, models, the skeleton and dissections. The freshman year will be devoted to Osteology, Arthrology and Myology; the sophomore year to Angiology, Neurology and Splanchnology. Topographic Anatomy also in the second year. The students are required to attend a quiz once a week, throughout the term.

Abundant facilities are provided for the study of practical anatomy. Under the law of the District of Columbia, the college secures a sufficient supply of anatomical material. The dissecting rooms, commodious, well lighted and ventilated, are under the charge of the Demonstrator of Anatomy and are open daily except Sundays throughout the term. Students are required to complete their dissections before becoming eligible for final examinations, and each is required to dissect one-half of a cadaver. The Demonstrators supervise the work of dissection, examine the students thereon, keep a record of the work and report to the Sec-
DEPARTMENT OF HISTOLOGY

PAUL BARTSCH, M. S., Ph. D., and Assistants
Professor and Head of Department.

The work in histology constitutes a thoroughly practical laboratory course. The first month is devoted to lectures on laboratory technique. This is followed by an examination of cells and elementary tissues. The remainder of the year is devoted to the study of the various organs. The laboratories are large and thoroughly equipped.

PHYSIOLOGICAL CHEMISTRY

PAUL BARTSCH, M. S., Ph. D., and Assistants
Professor and Director Physiological Laboratory.

This work extends over the freshman year and consists of an examination of the chief organic substances, carbohydrates, fats and proteins that compose the body. This is followed by a study of the chemistry of salivary, gastric and pancreatic digestion and an examination of bile, blood and milk, and some of the most important food stuffs.

EMBRYOLOGY

ROY D. ADAMS, M. D.
Lecturer and Director of Laboratory.

Two lectures or recitations and two laboratory hours a week throughout the sophomore year. The lecture course will embrace a comparative study of reproduction in the animal kingdom.

This course begins with a historical sketch of the "cell theory," and proceeds with a discussion of the structure of a typical cell, of cell division, of the maturation and fertilization of the sexual cells, and with an exposition of the fundamental physiological properties of protoplasm. This is followed by a discussion of the theory of gastrulation and the development of the primary germ layers. The histogenesis and structure of the tissues and organs is then taken up and considered in detail, the lectures being illustrated by blackboard drawings, charts, models and lantern demonstrations. Special attention is paid to the development and structure of the human placenta and the fetal membranes.

The laboratory course will consist of making drawings, with full descriptive notes and examinations of sections of embryo of the chick, etc., in various stages of development.
DEPARTMENT OF PHYSIOLOGY

ERNEST E. JUST, A. B., Ph. D.
Professor and Head of Department of Physiology.

The course in physiology comprises lectures, demonstrations, recitations and experimental work.

The arrangement of the course is as follows:
1. Physiology of Muscle and Nerve. Lectures, recitations, demonstrations, and laboratory work.
2. Physiology of Blood, Circulation and Respiration. Lectures, recitations, demonstrations and laboratory work.
4. Physiology of the Central Nervous System and of the Special Senses. Recitations, demonstrations and laboratory work.

Students will be especially instructed in the subjects of physiology, as pertaining to examinations of the heart, respiratory organs, and methods of physical examination.

DEPARTMENT OF MATERIA MEDICA AND THERAPEUTICS

JOHN W. MITCHELL, M. D., Phar. D.
Professor and Head of Department and Assistants.

Instruction in this department is given during the first, second and fourth years by means of lectures, recitations, laboratory work and clinical instruction.

These subjects will be dealt with by repeated recitations and demonstrations. The students of the first and second years will recite twice a week throughout the term, from a standard textbook on the subject. The subjects will be explained and illustrated in their practical and clinical application by the Professor or his Assistants. Pharmacologic demonstrations of drugs will be made to the class when it is considered possible by so doing to emphasize the importance of the subject.

LABORATORY OF MATERIA MEDICA AND THERAPEUTICS

Laboratory work includes an examination of the physical and chemical properties of the drugs and agents used as medicines. In the first year two hours a week are spent in doing this laboratory work, under the direction of a pharmacist who is also a physician. Prescription writing is carefully considered throughout the course, attention being given to analysis, both in the English and Metric systems. The subject of prescription incompatibility is here to be studied, from the standpoint of its chemical, pharmaceutic and therapeutic combination.
The second and fourth year classes will be divided into sections and taken into the hospital and practice given in the application of some remedies other than drugs; as hydrotherapy, the stomach tube, cautery, aspirator, hypodermic syringe, and in the various methods of administering such volatile substances as ether, chloroform, amyl nitrite, somnoform and nitrous oxide gas.

**ELECTRO-THERAPY AND RADIOGRAPHY**

**HERBERT C. SCURLOCK, A. M., M. D.**

The lectures in electricity are amply illustrated by class-room demonstrations, and thorough instruction is given in the methods of dealing with the various current forms, their measurements, control and proper application.

**BACTERIOLOGY**

*Professor.*

There will be four hours of lectures and twelve hours of laboratory work for sophomores each week for the first semester.

The laboratory course covers the practical application of bacteriology to the diagnosis, course and treatment of disease and includes preparation of culture media, the bacteriologic examinations of sputum, pus, blood, feces, milk, water, disinfectant, etc., as well as the culture and identification of pathogenic micro-organisms. The student is required to perform agglutination tests, and shown the practical methods of preparing and testing antitoxic sera. He also studies the results of experimental inoculation in suitable animals, and the microscopic and cultural characteristics of organisms of medical importance.

**MEDICAL ZOOLOGY**

**PAUL BARTSCH, M. S., Ph. D.**

*Lecturer.*

A course parallel to Bacteriology in which the animal parasites of man are considered. Sophomore students attend lectures and laboratory work two hours a week for first semester.

**HYGIENE, DIETETICS AND PREVENTIVE MEDICINE**

**NEIL DUNCAN GRAHAM, A. B., M. D.**

*Professor.*

Under Hygiene the physiological needs of the individual in regard to air, food, exercise and clothing are considered in detail, and this
knowledge made the foundation on which is based the more comprehensive discussion of sanitary procedures in general. For example: Rules and methods of ventilating and heating come under the subject of air. With water are studied, supply, chemical and mechanical purification, plumbing, sewerage, and disposal of sewage.

The section of Dietetics, includes, besides a theoretical consideration of food and food values, fifteen hours practical work in modification of milk, arrangement of dietaries, and the preparation of some of the more usual invalid dishes—predigested food, nutrient enemata, and the like.

The consideration of occupation, occupational dangers, and habitations follows the subject of exercise and clothing.

The course in Preventive Medicine is designed to correlate the knowledge gained in other branches in that emphasis is placed on the methods—physiological, bacteriological, chemical, biological—which have made possible the discovery of the cause, mode of transmission or prevention of disease.

The course concludes with a discussion of existing medical laws and their application.

PATHOLOGY

COLLINS MARSHALL, M. D.
Professor and Head of Department of Pathology.

RALPH B. STEWART, PhDr. D., M. D.
Laboratory Assistant.

The course consists of lectures, recitations and quizzes, with written examinations at stated periods, and the practical work consists of identification, study and drawing of microscopical specimens; the fixing, hardening, sectioning, staining and mounting of pathological tissues; the study of gross specimens and the performance of autopsies.

The laboratories of the College are supplied with all the necessary equipment for instruction in this important branch of medicine.

GENERAL PATHOLOGY

This course is for sophomore students and includes the subjects properly coming under this heading, viz.: general causation of disease, circulatory disturbances, degenerations, inflammation, neoplasms, and parasitic diseases.

The didactic work is supplemented in the laboratory by the study of specimens, illustrating the pathologic conditions under discussion at the time in the lecture room. The class is furnished with specimens representing the particular lesions lectured on, which the students are required to study, and make drawings of. At the same time all the
pathologic material available is used in teaching the student to prepare, cut, stain and mount his own sections.

SPECIAL PATHOLOGY AND CLINICAL MICROSCOPY

This course is given to the junior class. The various tissues and organs are taken up in order, and the pathologic changes studied under general conditions before are now studied in their new relations and modifications.

GROSS PATHOLOGY AND POST-MORTEM WORK

This course is given to both junior and senior students, and consists of identification and study of diseased parts with the naked eye, and the various microscopic stainings and other reactions.

The technique of making autopsies is taught by demonstrations, and opportunity is afforded the students to assist in the performance of the work.

DEPARTMENT OF OBSTETRICS

EDWARD D. WILLISTON, A. M., M. D.

Professor and Head of Department and Assistants.

The subject of Obstetrics is taught in the junior year by didactic lectures, quizzes and the manikin and by thorough clinical instruction in the wards of the Freedmen's Hospital. The entire subject is covered by lectures which are closely followed by exhaustive oral and written quizzes. Two hours of lectures and six hours of clinics a week for the session.

Careful clinical instruction is given in the wards of the hospital including pelvimetry, vaginal examinations, palpation and all antepartum and postpartum conditions, both normal and abnormal.

Senior students are required to attend at least six obstetric cases and when sufficiently instructed, will be required to deliver, under the supervision of the Demonstrator, as many cases as possible.

DEPARTMENT OF SURGERY

EDWARD A. BALLOCH, A. M., M. D.

Professor and Head of Department of Surgery.

AUSTIN M. CURTIS, A. M., M. D.

Associate Professor.

WILLIAM A. WARFIELD, M. D.

Professor of Abdominal Surgery and Surgeon-in-charge of Freedmen's Hospital.

WILLIAM A. JACK, M. D.

Demonstrator of Practical Surgery.
WILLIAM G. ERVING, A. B., M. D.
Professor of Orthopedic Surgery.

H. ATWOOD FOWLER, S. B., M. D.
Professor of Genito-Urinary Diseases.

WILLIAM F. SOWERS, A. B., M. D.
Instructor in Clinical Surgery.

HARRY H. KERR, M. D.
Instructor in Clinical Surgery.

MILTON A. FRANCIS, M. D.
Instructor in Clinical Surgery.

The subject of surgery is taught by didactic lectures, clinical lectures and operative clinics. Special stress is laid upon surgical pathology. The first semester of the junior year is given to this subject. During the fourth year students are brought into contact with practical surgery by means of ward work and as assistants at operations. This work is obligatory. Surgical diagnosis and the writing of case histories are taught in the hospital wards. In the minor surgery clinics students are taught the principles of aseptic surgery and operative technique. The course in operative surgery is illustrated by suitable material. Every effort will be made to give each student a thorough knowledge of modern surgery, theoretically and practically.

GENITO-URINARY DISEASES

H. ATWOOD FOWLER, S. B., M. D.
Professor and Assistants.

The work in genito-urinary surgery is chiefly clinical and the student learns by actual contact with the cases. Each student is taught urethral catheterization, the passage of bougies, the use of urethroscope and cystoscope, catheterization of the ureters, the technique of irrigation and instillation, together with the clinical laboratory examinations of urine, secretions and discharges. The hospital supplies abundant material for these courses. Whenever necessary the clinical demonstrations in the branches are supplemented by didactic lectures.

ORTHOPEDICS

WILLIAM G. ERVING, A. B., M. D.
Professor and Assistants.

Two clinics a week from November to May, preceded by short didactic lectures. Juniors attend the lectures and seniors are assigned to the clinics.

It will be the aim of the department to teach as fully as the material to be obtained from the clinics and wards will permit by bringing the
student in close contact with the actual cases. Every effort will be made to emphasize practical diagnosis and treatment of the affections included under orthopedic surgery. These will be demonstrated in the wards, clinics and operating room.

DEPARTMENT OF GYNECOLOGY

WILLIAM C. McNEILL, M. D.

Professor and Head of the Department of Gynecology.

CHARLES HERBERT MARSHALL, M. D.

Assistant in Gynecology.

The instruction in Gynecology embraces, lectures, recitations, demonstrations and clinics, and is given to seniors.

Two hours a week of either lectures, recitations or examinations of specimens and lantern demonstrations, and six hours a week of clinics. It is intended that the histologic, anatomic and pathologic as well as the operative side of Gynecology be made as clear as possible. Free use is made of charts, models, lantern slides and specimens, which are used to demonstrate diseases and operation.

The class is divided into sections which attend four clinics of two hours each a week throughout the session. These sections see all cases with the professor or his assistants before any plan of treatment is instituted.

DEPARTMENT OF MEDICINE

HENRY P. PARKER, A. B., M. D.

Professor and Head of the Department of Medicine.

CARYL BURBANK, M. D.

Assistant Professor of Medicine.

HENRY H. HAZEN, A. B., M. D.

Professor of Dermatology and Director of Tuberculosis Dispensary.

LEWIS C. ECKER, M. D.

Clinical Assistant in Medicine.

The course in Medicine is in part practical and in part didactic; however, the greatest stress is laid on the practical side.

The didactic course consists of four recitations for juniors, and two recitations for seniors, with a weekly amphitheatre clinic for the session, the subjects being so arranged that the two years’ course taken by both classes covers all the important medical diseases.

The practical work, in the junior year, consists of three exercises a week, in the dispensary of the Freedmen’s Hospital, where the patients and suitable patients from the hospital wards are used for demonstration. In this course students are taught thoroughly the methods
of examination and history taking; the plan of training being to give the students the ability to bring out and recognize the important symptoms and physical signs for themselves.

The practical instruction in the senior year is given in the wards of the hospital. The class is divided into small groups. Students are required to take the patients' records, make examinations if the patients' condition permit, and to make the laboratory examination of sputum, blood, urine, etc. On four days a week ward rounds are made by the Professor and his Assistants. Once a week the Professor meets the class in the ampitheatre and there presents cases suitable for clinical lectures.

PEDiATRICS

EDWARD H. REEDE, A. B., M. D.
Professor and Assistants.

The course, which is a graded one, consists of didactic lectures, class recitations and clinics. It is given in the junior year and consists of two recitations or quiz periods a week. The class is divided into two groups and the students are assigned to service in the outdoor and ward clinics.

OPHTHALMOLOGY

ROBERT SCOTT LAMB, M. D.
Professor and Director of Ophthalmologic Clinic and Assistants.

The work in this Department is intended to give the student such a general knowledge of the diseases of the eye as every well-educated physician ought to possess. The students are given the privilege of examining the cases, of studying the progress of the diseases and the effect of the treatment from day to day; and also of witnessing the delicate technique of the operations on the eye. Each exhibition of cases is followed by a brief discourse on the etiology, pathology, symptomatology and treatment of the diseases under observation. The didactic course is given to juniors and consists of two lectures a week for the second semester.

The course in Practical Ophthalmology consists of a clinic three times a week by the Professor and Assistants, practical instruction in the Out Patients' Department of Freedmen's Hospital to small sections of the senior class in the diagnosis and treatment of diseases of the eye, and demonstration of operations.
OTOLOGY, LARYNGOLOGY AND RHINOLOGY

J. J. RICHARDSON, M. D.

Professor and Assistants.

One lecture one hour a week for the first semester, and two clinics of two hours each a week for the session.

This course of lectures comprises a presentation of the special anatomy and physiology of the upper respiratory tract; the etiology and pathology of affections of the ear, nose and throat, and a description of the more common diseases of these organs, their diagnosis and treatment. Where practicable, these lectures are illustrated by cases of the diseases described.

Small sections of the class are taught the regional anatomy of the nose and throat by means of preserved specimens and models; the methods of rhinological, otological, and laryngological examination, with an opportunity to practice those methods on cases, and the medicinal and operative treatment of cases of diseases of the ear, nose and throat.

MEDICAL JURISPRUDENCE

WILLIAM C. WOODWARD, M. D.

Professor.

The course in Medical Jurisprudence and forensic medicine consists of a series of lectures, text-book study, with reference to standard authorities, and occasional quizzes. No attempt is made to treat the subject exhaustively, the aim being to give the student a clear understanding of his legal rights and duties as a medical practitioner, and of the general bearing of medical knowledge upon legal problems, which a doctor may be called upon to assist in solving.

MENTAL AND NERVOUS DISEASES

TOM A. WILLIAMS, M. B., C. M.

Lecturer and Assistants.

The instruction is entirely clinical, being given in two hour periods per week. Each student is first drilled in the methods of examination, the Socratic method being employed to compel the students to think for themselves and draw inferences from the data gathered in examining the patients. Later, cases are allotted to the students working in pairs, who report them to the clinic when the examination is completed; the diagnosis made, and in this way, and not from books, an actual, practical knowledge of types is gained by the whole class. Especial attention is paid to the early manifestation of mental disorders and their management. Constant reference to the pathological bases of neurological diseases is insisted upon.
One lecture a week for the session. The instruction is mostly clinical. The didactic lectures embrace systematic instruction in mental diseases, including: The essential principles of insanity; its nature and prominent features; concise definitions of the important technical terms used in psychological medicine, a comprehensive classification of mental diseases and their etiology, diagnosis, prognosis and treatment.

The clinical lectures consist of the presentation of cases of mental and nervous diseases, illustrating the teachings of the didactic lectures.

DERMATOLOGY AND SYPHILOLOGY

HENRY H. HAZEN A. B., M. D.
Professor.

The work consists of two lectures or recitations for the first semester and two clinics a week for the session. Small sections of the junior class are assigned to the cases presented in the clinic, and are expected to make the diagnosis and suggest the treatment. The cases are then fully considered, the lecturer in charge making corrections, if need be, and outlining the treatment.

SUMMARY OF THE REGULAR FOUR YEARS’ COURSE

The graded curriculum is arranged as follows:

Freshman Year

ANATOMY.—Lectures, 2 hours; practical work, 16 hours; recitations, 4 hours a week for first semester; lectures, 2 hours; practical work, 6 hours a week for second semester.

HISTOLOGY.—Lectures, 2 hours; laboratory, 4 hours a week for the session.

PHYSIOLOGY.—Lectures, 4 hours; laboratory work, 10 hours; recitation, 1 hour a week for the second semester.

MATERIA MEDICA AND PHARMACOLOGY.—Lectures, 2 hours; laboratory work, 4 hours a week for the second semester.

PHYSIOLOGIC CHEMISTRY.—Lectures, 1 hour; laboratory work, 3 hours a week for the first semester.

EEmbRYOLOGY.—Lectures, 2 hours; laboratory work, 4 hours a week for the second semester.

Sophomore Year

ANATOMY.—Lectures, 3 hours a week for the session; recitation, 2 hours a week for the second semester.

PHYSIOLOGY.—Lectures, 4 hours; laboratory work, 10 hours a week for the first semester.
**SCHOOL OF MEDICINE**

**Therapeutics.**—Lectures, 2 hours; laboratory work, 2 hours a week for the first semester.

**Urinalysis.**—1 hour a week for the second semester.

**Bacteriology.**—Lectures, 4 hours; laboratory work, 12 hours a week for the first semester.

**Pathology.**—Lectures, 3 hours a week; laboratory work, 6 hours for the second semester.

**Topographic Anatomy.**—2 hours a week for the second semester.

**Physical Diagnosis.**—Lectures, 2 hours a week for the second semester.

**Preventive Medicine, Hygiene and Dietetics.**—Lectures, 2 hours a week; laboratory work, 2 hours a week for the first semester.

**Bandaging.**—Two hours a week for the second semester.

**Surgical Pathology.**—Lectures, 2 hours a week for the second semester.

**Medical Zoology.**—2 hours a week for the first semester.

**Electro-Therapy.**—2 hours a week for the second semester.

**Junior Year**

**Pathology.**—2 hours of recitation and 12 hours of laboratory work a week for the first semester.

**Obstetrics.**—Lectures, 2 hours; clinics, 6 hours a week for the session.

**Surgery.**—Lectures, 2 hours; clinics, 6 hours; recitation, 1 hour a week for the session.

**Orthopedics.**—Lecture, 1 hour a week from November to May.

**Practice of Medicine.**—Lectures, 4 hours; clinics, 6 hours a week for the session.

**Clinical Microscopy.**—4 hours a week for the session.

**Dermatology and Syphilology.**—Lectures, 2 hours; clinics, 2 hours a week for the first semester.

**Pediatrics.**—Lectures, 2 hours a week for first semester; clinics, 2 hours a week for the session.

**Ophthalmology.**—Lectures, 2 hours a week for second semester.

**Surgical Anatomy.**—2 hours a week for the first semester.

**Senior Year**

**Gynecology.**—Lectures, 2 hours; clinics, 6 hours a week for the session.

**Surgery.**—Lectures, 2 hours a week for the first semester; clinics, 6 hours; recitation, 1 hour a week for the session.

**Practice of Medicine.**—Lectures, 2 hours; clinics, 8 hours; recitation, 1 hour a week for the session.

**Orthopedics.**—Clinics, 4 hours a week, from November to May.

**Ophthalmology.**—Clinics, 4 hours a week for the session.

**Medical Jurisprudence.**—Twelve lectures during the session.
MENTAL AND NERVOUS DISEASES.—Clinics, 2 hours a week for the session.

OTOLOGY AND LARYNGOLOGY.—Lecture, 1 hour a week for first semester; clinics, 2 hours a week for the session.

GENITO-URINARY DISEASES.—Lectures, 1 hour a week for first semester; clinics, 2 hours a week for the session.

TROPICAL MEDICINE.—Lectures, 15 lectures beginning in February.

POST-MORTEM.—As often as practicable.

APPLIED ANATOMY.—Two hours a week for second semester.
THE DENTAL COLLEGE.

(This College is a member of the National Association of Dental Faculties.)

FACULTY

REV. STEPHEN M. NEWMAN, A. M., D. D.
President of the University.

EDWARD A. BALLOCH, A. M., M. D., Dean
Professor of Oral Surgery.

ANDREW J. BROWN, D. D. S., Vice Dean, Dental College
Professor of Operative Dentistry and Operating Technic.

W. C. McNEILL, M. D., Secretary and Treasurer.

CLARENCE H. HOWLAND, D. D. S.
Emeritus Professor of Dental Anatomy and Pathology.

H. PORTER DAVIS, D. D. S.
Professor of Prosthetic Dentistry, Dental Metallurgy and Prosthetic Technic.

FRED P. BARRIER, D. D. S.
Superintendent, Dental Infirmary and Lecturer on Dental Anatomy.

AMBROSE E. GASKINS, D. D. S.
Demonstrator in Dental Infirmary and Lecturer on Crown and Bridge Work.

THOMAS W. EDWARDS, D. D. S.
Demonstrator in Dental Infirmary.

DANIEL S. LAMB, A. M., M. D., LL. D.
Professor of Anatomy.

COLLINS MARSHALL, M. D.
Professor of Pathology.

PAUL BARTSCH, M. S., Ph. D.
Professor of Histology and Physiologic Chemistry.

HERBERT CLAY SCURLOCK, A. M., M. D.
Professor of Bacteriology and Director of Bacteriologic Laboratory.

JOHN W. MITCHELL, M. D., Phar. D.
Professor of Materia Medica and Therapeutics.
ERNEST E. JUST, A. B., Ph. D.
Professor of Physiology.
CHARLES I. WEST, M. D.
Associate Professor of Anatomy.
ALBERT RIDGELEY, M. D.
Associate Professor and Demonstrator of Anatomy.

Lecturer on Dental Jurisprudence.
ARTHUR L. CURTIS, M. D.
Lecturer on Physical Diagnosis and Anaesthesia.

REQUIREMENTS FOR ADMISSION TO THE DENTAL COLLEGE

The candidate may be admitted to the Dental College upon presenting a diploma or equivalent certificate from an accredited high school or kindred educational institution, or upon passing a satisfactory examination. The diploma must be signed by a superintendent of schools or the principal of a high school, or other responsible school officer and must be accompanied by a blank giving in detail the course of study pursued in each year, together with the number of weeks and the hours per week. This blank must be signed and sealed by the principal of the school the applicant attended. A certificate showing that a candidate has been graduated from an accredited high school, or from a school giving an equivalent course, signed by a city or county superintendent of schools, or by a state superintendent of public instruction, will be accepted as the equivalent of a diploma. A candidate who does not present a diploma or certificate must take an examination before a state superintendent of public instruction, or his deputy, and bring a report showing that he has a preliminary education equivalent to that to be obtained in an accredited high school.

This School will receive no student in its regular course who is not present within ten days after the opening day of the session in each year, or, in case of necessary delay, by reason of illness properly certified by the attending physician, within twenty days after the opening day, at option of the Faculty.

Students registering agree thereby to accept the discipline imposed by the Faculty.

It is desirable that students register early.

ADMISSION TO ADVANCED STANDING

Students who present certificates from other recognized dental schools covering subjects required in this College, will be credited with such studies if the credentials are satisfactory to the professors in the re-
pective departments, but when admitted to the senior year, the candidate must do one full year's work in this School. Graduates of recognized medical colleges are credited with one year of time.

COURSE FOR DEGREE OF DOCTOR OF DENTAL SURGERY

The course covers four years. The year begins on the first day of October and closes on Commencement Day of the University. There are thirty-two weeks of actual instruction given, six days in each week.

METHODS OF INSTRUCTION

The studies of the course are grouped by departments; the work of each department is graded from the more general and fundamental subjects to the more specialized and advanced.

The work in each department is planned with reference to that of other departments, and the greatest care is taken that the whole shall be so correlated that the student in taking up a new subject will find himself prepared by work done in other departments.

CURRICULUM

The curriculum comprises Anatomy, Anaesthesia, Physiology, Histology, Materia Medica, Therapeutics, Chemistry, Toxicology, Metallurgy, Oral Surgery, Operative and Prosthetic Dentistry, Dental Technic, Pathology, Bacteriology, Hygiene, Orthodontia, Radiography, and Dental Jurisprudence.

REQUIREMENTS FOR GRADUATION

The degree of Doctor of Dental Surgery is conferred upon those candidates not less than twenty-one years of age, of good moral character, who have completed satisfactorily the required course of study and have passed the examinations therein, and have fulfilled all technical and practical laboratory and clinical requirements. No student will be recommended for a degree who has not been a member of this School during the whole of the last or senior year. The standing of students is based upon examinations, monthly reports of attendance, quizzes and infirmary practice.

No student will be recommended for a degree until all financial obligations to the University shall have been discharged.

SCHOLARSHIPS

The Faculty of the School of Medicine has granted a free scholarship in the Dental College to graduates of the M Street High School and the Armstrong Manual Training School, Washington, D. C. The recipient of this scholarship is to be named by the Faculty Council of this College upon proper recommendation.
SPECIAL LECTURES

At stated times important special lectures will be given. The object of these lectures is to afford the student an opportunity to attend special courses given by dental practitioners who are eminent in some special branch of the subject.

These lectures, which are accompanied by clinical demonstrations, add greatly to the value of the regular course.

COURSE OF STUDY

The course of study is graded, and extends over four years.

First Year
The first year instruction is in Anatomy, Dental Anatomy, Physiology, Chemistry, Chemical Laboratory, Histology, Materia Medica, Operative and Prosthetic Technic, Anatomical Laboratory, Physiological Chemistry.

Second Year
The second year instruction is in Dental Chemistry, Metallurgy, Bacteriology, General Pathology, Dental Pathology, Prosthetic Dentistry, Dental Therapeutics, Operative Dentistry, Anatomy, Physiology, Crown and Bridge Work, Infirmary and Prosthetic Laboratory.

Third Year
The third year instruction is in Oral Surgery, Dental Medicine, Orthodontia, Crowns and Bridges, including Porcelain Work, General Anaesthesia and Prosthetic Dentistry and Hygiene.

Fourth Year
Instruction in the fourth year will be mainly practical Infirmary work, and consists of Operative and Prosthetic Dentistry, Radiography, Electricity and Dental Jurisprudence.

ANATOMY

Professor D. S. Lamb, Drs. West, Ridgeley and Assistants.
Dental students receive a thorough course in Anatomy.
Extended laboratory work on the human body is conducted in conjunction with the lecture course. Anatomical material is plentiful.

PHYSIOLOGY

Professor Just.
The course extends throughout the first year and consists of recitations, lectures, and demonstrations. Special attention is given those points that have particular interest for dental students.
CHEMISTRY

Professor Scurlock.

The course in Chemistry is given during the first year, and consists of Inorganic and Organic Chemistry, including elementary Qualitative and Quantitative Analysis.

The classroom work is given daily, except Saturday; the laboratory exercises will require three periods of two hours each per week.

The class will be expected to cover the planned work in Inorganic Chemistry and Qualitative Analysis during the first semester of the school year, and to complete the scheduled course in Quantitative Analysis and Organic Chemistry during the second semester.

The Inorganic portion will begin with a consideration of those physical properties of matter which are essential for the subsequent work. Then, the elements and their important compounds will be considered, due attention being paid to the introduction of chemical theories. Chemical arithmetic and equation writing will receive a considerable share of the time spent in blackboard exercises.

Experiments in General Inorganic Chemistry are selected with the view of giving the student practice in conducting chemical experiments, as well as acquiring an acquaintance with the properties of the chemicals employed.

In the classroom schemes for the separation and identification of metals, and the detection of the acid radical will be discussed, while in the laboratory the student will repeat the reactions with known solutions, and finally be required to analyze more or less complex mixtures.

The work of the second semester begins with a further consideration of analysis, giving practice in simple quantitative determinations by gravimetric and volumetric methods. This brief course is followed by classroom and laboratory work in Organic Chemistry.

DENTAL HISTOLOGY

Professor Bartsch and Assistants.

There are one lecture and four hours of laboratory work a week throughout the term.

Lectures in this department are illustrated by lantern slides, in most instances reproduced from numerous dissections from the actual subject, in the preparation of which the incumbent of the chair has made a special effort to cover the branches under consideration.

MATERIA MEDICA AND THERAPEUTICS

Professor Mitchell and Assistants.

There will be 2 hours of lectures or recitations a week for a half semester.
The recitations on Materia Medica cover the derivation, nature, physiological action, dose and the antidote or antagonist of each drug, together with a practical knowledge of prescription writing for the intelligent administration of the same.

**BACTERIOLOGY**

Bacteriology is presented especially in its relation to dental pathology and dental practice. The student is familiarized with the general principles of the subject, with the nature of the organisms, the place they occupy in nature, their physiological processes, how and where they grow, how they live, what they do, and how they produce disease.

**PROPHYLAXIS AND HYGIENE**

Professor N. D. Graham.

This institution and its teachers have recognized for sometime that Oral Hygiene and Prophylaxis are important factors in the preservation of teeth. The scope of this course will be broad and comprehensive, a large clinic affording full opportunity for a thorough understanding of pyorrhea alveolaris, gingivitis and oral prophylaxis from a practical viewpoint. Special features covering these important subjects will be given. The most advanced treatment will be followed with the student and his patient, under the supervision of the instructor of this department, the object being to better prepare our graduates to specialize in this branch.

**DENTAL ANATOMY AND OPERATIVE TECHNIC**

Professor Brown and Dr. Barrier.

Dental Anatomy, the Anatomy of the human teeth, is taught in the first semester, and Operative Technic is taught in the second semester. The first two weeks are given mostly to the study of dental nomenclature. Then descriptive human dental anatomy is taken up and the forms and surface markings of each tooth studied. This part of the work is illustrated by models, enabling the lecturer to locate every detail of form and of surface markings upon the teeth so that they may be accurately understood.

In order that tooth forms may be more perfectly impressed upon the mind, during this study, and be of use in shaping teeth, artificial crowns and fillings in teeth in after-practice, a tooth of each class, as the incisors, cuspids, bicuspid and molars, is made by each student, first in clay, then in bone or ivory, representing the actual size and form of the tooth.
METALLURGY
Professor Davis.

This subject will be taught during the second year—one lecture each week—in which those metals used in dentistry will be most prominently considered, as iron, steel, copper, zinc, tin, lead, aluminum, silver, gold, platinum, etc. The art of soldering, characteristics of the various metals, the compounding of solders, fluxes, alloys, etc., will be included in this course and practically demonstrated in the laboratory.

PATHOLOGY
Professor Marshall and Assistants.

This important branch will be thoroughly taught in its general relation to the human system and the special features pertaining to dentistry, which will be minutely treated in the course.

PHYSICAL DIAGNOSIS AND ANAESTHESIA
Dr. A. L. Curtis.

With the progress that has been made in all the departments of the practice of dentistry, it becomes not only desirable, but necessary that the practicing dentist should be able, not only to make such an examination of his patient as may enable him to determine as to the advisability of the use of an anaesthetic, but he should also know the conditions which should influence him in the selection of the anaesthetic for each individual case.

It has therefore been considered advisable to give a course of lectures, with such clinical instruction as may be necessary to fully cover the subject.

ELECTRICITY AND X-RAY
Professor Scurlock and Assistants.

The lectures in this course will embrace a study of the principles underlying the use of electricity and the X-Ray in their practical application to dentistry.

PORCELAIN
Professor Brown.

Porcelain is attracting more and more attention. It is the more artistic method of restoring teeth or parts of teeth. Cavities in the natural teeth can be filled with porcelain inlays, which cannot be detected.
Students of this school will be expected to attain a high degree of proficiency in the manipulation of porcelain. The College is equipped with furnaces for continuous gum work and machines for casting of gold inlays. Students are taught how to construct inlays by the use of gold and platinum matrices, the different blending of colors, and also a complete course of lectures is given covering the entire subject.

**ORAL SURGERY**

Professors Balloch and Curtis.

The course embraces instruction in the general principles of surgery and their practical application to pathological conditions occurring about the mouth and face, giving special attention to diagnosis and recognition of conditions requiring surgical interference.

**PROFESSIONAL ETHICS AND DENTAL JURISPRUDENCE LECTURES**

The lectures cover the relations of dental surgeons to their patients and to each other.

**OPERATIVE DENTISTRY**

Professor Brown and Assistants.

The course in the branch of Operative Dentistry includes the consideration of the preparation of all forms of cavities, of different filling materials—plastic, gold and porcelain—the methods employed in the preparation and manufacture of each, as well as how and when each is used. Also a study of all appliances and instruments used in Operative Dentistry, and all new and modern inventions. Models, patterns, diagrams, lantern slides and other illustrations help to make the subject plain and lucid, yet complete and practical.

**ORTHODONTIA**

Professor Brown.

This subject is taught during the junior and senior years. Beginning with normal occlusion, the lectures take up the different classes of malocclusion, special attention being given to diagnosis and treatment. This is followed by several lectures on retention, followed by a course in model and appliance making.

In the senior year, the instruction is mainly clinical, and is given at the individual chairs in the Infirmary.
SCHOOL OF MEDICINE

PROSTHETIC DENTISTRY
Professor H. P. Davis, D. D. S.
Frederick P. Barrier, D. D. S., in charge of Laboratory.

Prosthetic Dentistry will be thoroughly taught in every detail, both by lectures and clinical demonstrations, each lecture as far as practicable, being followed by clinics, so that students may have a thorough appreciation of the teaching practically applied.

The laboratory is spacious, well lighted and ventilated, and thoroughly equipped for the practical teaching of this most important branch of dentistry. It is under the direct personal supervision of the professor, assisted by a competent demonstrator and assistant.

The course embraces the proper fitting up of a dental laboratory, the use of tools, the preparation of the mouth for dentures, methods of taking impressions of the mouth and articulations, the materials used, their composition and manipulation, as well as the preparation of models for dentures made on the various bases. The anatomical and artistic arrangement of the teeth, viz., in mastication, enunciation, facial contour, etc., will be most carefully considered; formulae for compounding bodies and enamels used in the manufacture of artificial teeth and continuous gum work; vulcanite and celluloid, their compositions and methods of working, including all varieties of repairing; fusible metal bases; the construction of metal plate work in gold, silver, platinum, aluminum, etc.; making dies and counter-dies from the different materials used; swaging and fitting plates, and of soldering, bending and fitting of clamps; combination plates of metal and vulcanite or celluloid; the mechanical treatment of cleft palate, including the several methods of constructing vela and obturators; ceramic dentistry, covering continuous gum work, the different methods of fusing, furnaces, bodies, enamel, etc., will be thoroughly and practically covered in every detail.

The technical course covers a complete training in prosthetic technic, and carefully preparing the student for practical work, including the taking of impressions, articulations, preparations of models, the construction of dentures on the different bases, etc. That time may be utilized and the student receive personal instruction, the classes are subdivided into sections. Students are at once assigned to a section with competent demonstrators, and given a systematic and practical course. Before passing from one class to another, the student is obliged to obtain from the demonstrator in charge a certificate of qualification, which, together with the work performed, will be finally passed upon by the professor in charge of the department.

CROWN AND BRIDGE WORK
Dr. Gaskins.

Preparation of the roots of extracted teeth for bands, fitting bands,
carving cusps in plaster and other materials, making dies, swaging cusps, soldering cusps to bands and finishing.

Making porcelain-faced crowns, conforming bands and constructing copes, grinding and backing, facing and fitting to cope, investing, soldering and finishing, constructing various forms of porcelain and metal dummies, previously constructed and forming bridges, investing, soldering and finishing.

DENTAL INFIRMARY

Frederick P. Barrier, D. D. S., Superintendent.
Ambrose E. Gaskins, D. D. S., Senior Demonstrator.

The Dental Infirmary and Laboratory occupies a building with 6,000 square feet of floor space, which is well lighted, ventilated and gives increased facilities. New dental chairs and laboratory apparatus have been added so that the equipment of these departments compares favorably with that of the best colleges, and is especially designed for the successful teaching of modern dentistry. The opportunities offered students for special preparation to enter private practice are not exceeded by any other college.

The Infirmary is open the year round, daily, except Sunday, from 10 a. m. to 5 p. m. It is in charge of educated and experienced demonstrators. Here are taught in practice the theories set forth by the chairs. Abundant clinical material is always at hand, and students are required to perform all operations in ordinary practice. No student is excused from this service. The outfit of the Dental Infirmary and of the Laboratory is complete.

Students furnish their own instruments, except forceps, lathes and vulcanizers. Dental engines can be bought for from $15.00 to $36.00 apiece. A list of the necessary instruments will be furnished to first-year students, the cost of which will not exceed $20.00.

Special pains will be taken to make the course of teaching practical and at the same time thorough.

No student can enter the senior class unless he has the certificate of the demonstrator and professor that he has attended the regular afternoon clinics during the session.

The fact that the immense hospital of the University, with all its wealth of instruction, is free to the dental classes, and that this hospital is at the very door of the College, makes the opportunity for study unsurpassed.

All friends of the College are requested to add to the collection of curiosities and abnormal specimens now accumulating. Dentists are reminded that the abnormal specimens lying idle in their cabinets may be of great benefit to the student.
School of Medicine

THE PHARMACEUTIC COLLEGE.

FACULTY

REV. STEPHEN M. NEWMAN, A. M., D. D.
President of the University.

EDWARD A. BALLOCH, A. M., M. D., Dean
J. HERVE PURDY, Phar. D., Vice-Dean
Professor of Pharmacy, and in charge of Pharmaceutic Laboratory.

WILLIAM C. McNEILL, M. D., Secretary and Treasurer

EDGAR B. KEEMER, Phar. C.
Professor of Theory and Practice of Pharmacy.

JOHN W. MITCHELL, M. D., Phar. D.
Professor of Materia Medica and Therapeutics.

HERBERT CLAY SCURLOCK, A. M., M. D.
Professor of Chemistry, Toxicology and Urinalysis.

ERNEST E. JUST, A. B., Ph. D.
Professor of Physiology.

Professor of Bacteriology.

Advantages

It is a great advantage to the students of pharmacy to attend a college where medicine, dentistry and pharmacy are taught simultaneously. Students of pharmacy have the benefit of thus associating with a large number of students in annual attendance, coming from all parts of the world. The students of pharmacy are afforded an exceptional opportunity of association with students pursuing studies so intimately related as the professions of pharmacy, medicine and dentistry.

REQUIREMENTS FOR ADMISSION

Applicants for admission must present a certificate of good moral character and fitness to enter upon the study of pharmacy, shall be at least seventeen years of age, and must present evidence of having completed satisfactorily four full years of work in an accredited high school or its equivalent.

ENTRANCE WITHOUT EXPERIENCE

Students are not required to have drug store experience at entrance, and many students enter college who have never worked in drug stores. However, such experience is very desirable, and students are advised to acquire it before taking up the study of pharmacy.
SCHOLARSHIPS

The Faculty of the School of Medicine has granted a free scholarship in the Pharmaceutic College to graduates of the M Street High School and the Armstrong Manual Training School. The recipient of this scholarship is to be named by the Faculty of this College upon proper recommendations.

COURSE OF STUDY

Three years' study required before graduation.

The rapid progress made in the sciences and arts directly affecting the practice of pharmacy, and the widely diversified knowledge now required to keep the pharmacist in touch with the best results of modern research, have made an extension of the course of instruction imperatively necessary. Students entering the College will therefore be required to take a course of study covering a period of three years before they will be entitled to graduation. Upon entry, students will be assigned to the first-year class, from which, after passing a satisfactory examination, they will be promoted to the second year and senior classes at the end of the first and second scholastic years, respectively.

CURRICULUM

The curriculum comprises Chemistry, Toxicology, Urinalysis, Botany, Materia Medica, Therapeutics, Pharmacy, Pharmacology, Microscopy, Physiology, and Bacteriology.

The course in pharmacy comprises three sessions, each of thirty-two weeks' duration.

LECTURES, ETC.

Instruction will include didatic lectures, recitations and laboratory work. The student is admonished that his conduct in the laboratory, his punctual attendance in his classes and interest shown in his work will have great weight with his instructors, while the lack of these qualities will certainly act against him.

Students will be required to have the necessary text-books for each branch at the beginning of the session. It has been arranged that only such books as are needed will have to be purchased at once.

EXAMINATIONS

Examinations are held during the week preceding the Christmas vacation. At the close of the session of the first year, students are examined upon the subject-matter of the courses included in the year's work. Students failing in three of the subjects of either year are required to repeat the whole year's work and are not eligible for promotion. Students who are conditioned in the subjects of the first year, but who have
passed in a majority of them are examined on the subjects in which they have conditions at the opening of the succeeding session. Failing to pass, then they are required to repeat the course in the subjects on which they are conditioned, in addition to the work of the other year.

ADMISSION TO ADVANCED STANDING

Students who have attended one or more courses of lectures at some other registered college of pharmacy will be admitted to the same class of this College upon presentation of evidence that they have successfully passed the examinations, to which they are entitled by reason of time spent and branches passed.

The final examinations, of which due notice will be given, are held during the two weeks preceding commencement. For admission to senior examinations, attendance upon three full courses of lectures and the laboratory courses is required.

REQUIREMENTS FOR GRADUATION

The diploma of the College confers the degree of GRADUATE IN PHARMACY (Phar. G.). Applicants for this degree must have had the required preliminary education, must be of good moral character, have attended three full courses in this College, or the last course in this College and the first two in some other registered college of pharmacy; have passed satisfactory examinations and paid all required fees.

MATERIA MEDICA, THERAPEUTICS AND TOXICOLOGY

Professor Mitchell and Assistants.

Three hour of lectures and recitations each week throughout the term.

PHYSIOLOGY

Professor Just.

First-year students attend lectures in Physiology.

CHEMISTRY

Professor Scurlock.

The course in Chemistry is given during the first year, and consists of Inorganic and Organic Chemistry, with some elementary Qualitative and Quantitative Analysis included.

The class will be expected to cover the planned work in Inorganic Chemistry and Qualitative Analysis during the first semester of the school year, and to complete the scheduled course in Quantitative Analysis and Organic Chemistry during the second semester.

The Inorganic portion will begin with a consideration of those physical
properties of matter which are essential for the subsequent work. Then, the elements and their important compounds will be considered, due attention being paid to the introduction of chemical theories. Chemical arithmetic and equation writing will receive a considerable share of the time spent in blackboard exercises.

Experiments in General Inorganic Chemistry are selected with the view of giving the student practice in conducting chemical experiments, as well as affording an acquaintance with the properties of the chemicals employed.

In the class room, schemes for the separation and identification of metals and the detection of the acid radical will be discussed, while in the laboratory the student will repeat the reactions with known solutions, and finally be required to analyze more or less complex mixtures.

The work of the second semester begins with a further consideration of analysis, giving practice in simple quantitative determinations by gravimetric and volumetric methods. This brief course is followed by classroom and laboratory work in Organic Chemistry. The classes of carbon compounds, their structure, synthesis, and transitions, are reviewed, but in the study of individual substances the greater emphasis is placed on those of importance from the pharmaceutical point of view. Some attention is given, however, to certain commercial products and their manufacture.

In the laboratory the student obtains a practical study of some of the typical compounds and their reactions.

**PHARMACEUTIC BACTERIOLOGY**

The course in Bacteriology for pharmacy students is essentially the same as that for medical students, but necessarily more elementary. Less stress is laid on the pathologic and clinical aspects of the subject, and more attention paid to the various forms of sera and vaccines likely to be handled by pharmacists.

**BOTANY**

Two hours of lectures and laboratory work once a week.

Instruction in Botany will begin on the first Wednesday in October, with the study of the elementary tissues of which plants are composed and the manner in which these tissues are built up into roots, stems, leaves, flowers and fruits. Physiology and classifications will then be considered, together with the collection and identification of fresh specimens.

**MICROSCOPY**

Professor Keemer.

This College, recognizing the importance and value of Microscopy in
the practice of pharmacy, has established a course in this branch and requires full attendance from senior students upon the instruction given.

PHARMACY
Professor Keemer.

Pharmacy I-a. Theoretical Pharmacy, consisting of a study of the principles and processes of Pharmacy, with demonstrations of the same; also the classification of Natural medicinal products, and galenical preparations. Lectures and recitations. 3 hours. First year.

Pharmacy I-b. Pharmaceutical Arithmetic, a systematic study of the different types of problems met with in the practice of Pharmacy. Recitations. 1 hour. Second semester of first year.

Pharmacy II. Official Pharmacy of Inorganic Compounds, including the study of all official inorganic compounds and the more important unofficial ones, with the identification and preparations of the same. Recitations. 2 hours. Second year.

Pharmacy III-a. Official Pharmacy of Organic Compounds, consisting of a study of all official organic compounds and their derivatives, including alkaloids, glucosides, and neutral principles. Recitations. 2 hours. First semester of third year.


Pharmacy IV-a. Prescription Reading and Incompatibilities. Lectures and recitations. 1 hour. Third year.

PHARMACOGNOSY
Professor Keemer.

Pharmacognosy. A study of crude drugs, with special reference to identification, preservation, source and constituents. Recitations and lectures. 2 hours. Second year.

PHARMACEUTICAL LABORATORY WORK
Professor Purdy and Assistants.

FIRST YEAR.

Six hours a week laboratory work for the session.

The laboratory work of the first year will supply the practical aid to the theoretical teaching.

The student will have the opportunity to become perfectly familiar with the apparatus used in pharmaceutical work and the manipulation of the same, thus giving him the technical training which contributes much to
his success in the store. He will also be taught the care of apparatus, rules to be observed in laboratory work, recording results, etc. Instruction will be given upon the proper use of the Pharmacopoeia and manner of reading formulæ.

Through a series of practically adapted lines of work he will be enabled to master the different systems of weights and measures. After this, will be given the methods employed and apparatus used in determining specific weight and its application to pharmacy, specific volume, dilution, fortification and mixing of alcohol to produce any desired strength, the computation of averages and proportions in mixing to produce any desired values (or percentages), how to express, use and transpose formulæ in parts by weight; methods for measurement of heat, manner of testing and using thermometers, etc.

The remainder of the year will be devoted to the preparation of a series of official galenical preparations, enabling the students to judge quickly and accurately as to the best method of making these various pharmaceutical preparations.

SECOND YEAR.

Six hours a week for the session.

The laboratory course for the second year is a continuation of the preparation of official preparations, requiring various pharmaceutical processes and operations such as the various methods of percolation, recovering of alcohol from exhausted drugs and weak percolates, determination of the percentage of alcohol in the recovered liquid, methods of regulating and modifying heat by use of baths, mode of conducting evaporation, principles involved in processes of distillation, different modes of sublimation, solution, decantation, percolation, lotion, filtration, maceration, digestion and fusion.

The remainder of the year will be devoted to making such preparations as cerates, ointments, plasters, chartae, suppositories, powder masses, confections, pills, and the various excipients used in making them.

The laboratory work will follow as closely as possible the subject matter of lectures, each student receiving individual attention and instruction.

THIRD YEAR.

Twelve hours a week for the session.

The laboratory course for this year will have a special bearing in fitting the student for actual professional work.

Prescription dispensing and magistral pharmacy will be entered into more fully than during the former courses, for under this head comes the most important instruction in pharmacy, since it embraces the principal amount of labor in the store and calls for more tact, knowledge and skill than any other branch.
Practice will be afforded in applying the pharmacopoeial tests, that the students may become familiar with the methods of the identification and detection of impurities in official substances.

Special attention is given to assaying. The student will be thoroughly instructed in the pharmacopoeial methods of assaying drugs with the purpose of determining their values from both the mercantile and the scientific viewpoint.

In this part of the course the student is made familiar with the practical application of pharmacetic chemistry, which will enable him to apply the various tests for the identification of alkaloids, glucosides, fixed and volatile oils, resins, gums, etc.

TEXT-BOOKS RECOMMENDED

May be obtained at the College at catalogue prices.

Anatomy—Gray, Piersol, Morris, Cunningham, Eckley's or Cunningham's Anatomy, Young's Hand-Book, Davis' Applied Anatomy, Heisler's "Dissector."


Clinical Microscopy—Emerson, Simon, Wood, Webster.

Dental Anatomy—Black, Broomell's Anatomy and Histology of Mouth and Teeth. Notes on Dental Anatomy, Technic, etc., Weeks.

Dental Pathology and Therapeutics—Burchard, Gorgas, Dental Medicine.


Dermatology—Hyde, Shoemaker, Stellwagon, Jackson, Grindon and Gallaudet, Crocker, Norman, Walker, Pye-Smith, Schamberg, Hazen.

Diagnosis—Hare, Butler.

Dictionary, Medical—Gould, Duane, Dunglison, Dorland, Stedman's.

Dietetics—Pattee.

Electro-Therapeutics—Kassabian, Tousey.

Embryology—Heisler, McMurrich, Minot, Quain.

Genito-Urinary—White and Martin, Keyes.

Gynecology—Montgomery, Kelly, Clark's Gynecological Diagnosis, Dudley, Webster.

Histology—Piersol, Sterling, Boehm, Davidoff and Ferguson.
Hygiene—Harrington, Bergey.
Medical Jurisprudence—Bray, Taylor, Reese.
Materia Medica—White and Wilcox.
Nervous and Mental Diseases—Church and Peterson, Potts; for reference Oppenheim. Psychiatry—Mendel, Paton; for reference, Kraft-Ebing.
Ophthalmology—Fuchs, de-Schweinitz, May, Nettleship, Jackson or Swanzy on the Eye.
Otology and Laryngology—Kyle on Nose and Throat; Douglas or Grayson on Nose and Throat; Barnhill and Wales' Modern Otology; Dench on the Ear; Packard on Nose and Throat; Gleason, Coakley.
Pathology—Adami, Mallory.
Works of Reference—Arny's Principles of Pharmacy, Coblentz's Handbook of Pharmacy, Culbreth's Materia Medica and Pharmacy, National Dispensatory, Remington's Practical Pharmacy, Ruddiman's Incompatibilities, Steven's Arithmetic of Pharmacy, Scovill's Art of Compounding.
Physical Diagnosis—Cabot, Musser and Gerhart.
Physiology—Howell, Tigerstedt, Brubaker.
Practice of Medicine—Osler, Tyson, No Compends.
Surgery—Park, DaCosta, Rose and Carless, Spencer and Gask, Brewer.
Therapeutics—Hare, Wood, Butler, Potter.
Toxicology—Wormley's Microchemistry.
Urinalysis—Saxe, Ogden.
Text-books, Medical and Dental, for the first year cost about $25.00; second year, $30.00; third year, $25.00; and fourth year, $30.00. The cost of text-books for the course in Pharmacy is about $25.00.
SCHOOL OF MEDICINE

GRADUATES 1916

MEDICAL COLLEGE

Doctors of Medicine—15

Burke, Stephen Emery
Calloway, Elijah Arthur
Claybourne, Moses, A. B.
Conyers, James Garfield
Cooper, Wellington Watson.
Dixson, David Johnson, A. B.
Lane, Willard Mercer, A. B.
Norris, Morgan Edward, A. B.
Palmer, Henry Samuel
Richie, Emory Wallace, B. S.
Riley, Joseph Henry
Terry, Elmer Clayton, A. B.
Wallace, James Carroll, A. B.
Wiggins, Elmore Cornelius
Worth, Charles Wesley, A. B.

DENTAL COLLEGE

Doctors of Dental Surgery—42

Bailey, Clarence Carlyle
Beamon, Reginald Emmett, A. B.
Beatty, John Casson
Brazier, Joseph Christopher
Bunch, Lonnie Griffith, A. B.
Clarke, Roger
Claytor, William Oat
Cox, Thomas Robert
Cromwell, Ashley Leander, A. B.
Davis, Alexander Gaston, A. B.
Dickens, Harvey Horace
Downing, Ralph Bernard
Dunn, Moses Daniel
Evans, Egbert Hugh
Fyfe, Thomas Leopold
Haywood, Harold Edmund
Howard, Waldo Jenkins
Hunter, Frank Wilberforce
Hussey, Charles S. Castile
Inghram, Berry Shumpert, B. P.
Ingram, William Everett
Intsiful, Kofi Tewia, A. B.
Jones, Thomas Eugene
Kendrick, Matthew
Lafayette, Albert Simms
Lucas, Flavius Joseph
MacCalla, Reuben Alexander
Marshall, Clarence Griffith
Maxwell, Andrew Dibble, A. B.
May, Edgar Hollis
McLeod, Frederick Jerry
McMurray, Alonzo James
Phillips, Edgar Donald
Plummer, Lionel Latimer
Pottinger, Simeon Hendric, B. S.
Reid, Herbert
Robinson, Edna Cordelia Corinna
Scott, Wyndham Meredith Songer
Thomas, Arthur Lafayette
Westmoreland, Isaac Owen, A. B.
Wiley, Wabisha William Spencer
Yancey, Clinton Ernest, A. B.

PHARMACEUTIC COLLEGE

Doctors of Pharmacy—17

Beckwith, Charles Bernard
Blair, James Henry Robinson
Childs, Creed Winston, Jr.
Clark, James Buchanan
Fletcher, James Richard
Fowler, Esther Ellen
Fowler, Ruth Marie
Garnett, Thomas Howard

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### senior

- **Bennett, Isaiah Samuel**, A. B., Allen, Charleston, S. C.
- **Burke, Stephen Emory**, Orange, N. J.
- **Calloway, Elijah Arthur**, Kilgore, Texas
- **Conyers, James Garfield**, Chattanooga, Tenn.
- **Cooper, Wellington Watson**, Waco, Texas
- **Dixson, David Johnson, A. B.**, Benedict College, Barnwell, S. C.
- **Flowers, John Azerre**, Casscoe, Ark.
- **Hughes, Hugh Price**, Baltimore, Md.
- **Lane, Willard Mercer, A. B.**, Oberlin, Washington, D. C.
- **Mayhew, William Henry**, Trinidad, B. W. I.
- **Palmer, Henry Samuel**, Jamaica, B. W. I.
- **Plummer, Frank Victor**, Washington, D. C.
- **Terry, Elmer Clayton, A. B.**, Howard, Pleasantville, N. J.
- **Wallace, James Carroll, A. B., Wiley**, Beaumont, Texas
- **Wiggins, Elmore Cornelius**, St. Louis, Mo.
- **Worth, Charles Wesley, A. B., Shaw**, Raleigh, N. C.

### junior

- **Booker, Lee Walls** Danville, Va.
- **Burnett, Foster Flavorial, B. S. (A & T)** Wilmington, N. C.
- **Carroll, Daniel Harris, A. B., Morgan College** Baltimore, Md.
- **Coleby, Albert Edward** Bahamas, B. W. I.
- **Cook, Frank Robert, B. S., Howard** Washington, D. C.
- **Cooper, Oscar James, A. B., Howard** Washington, D. C.
- **Gibbs, Jonathan Clarkson, A. B., Howard** Tallahassee, Fla.
- **Harris, Charles Young, A. B., Howard** Washington, D. C.
- **Keaton, James Max** Asheville, N. C.
- **Lennox, Porter Barry, A. B., Howard** Detroit, Texas
 Luck, Jeremiah, Jr., A. B., Howard..........................Danville, Va.
Pigott, Casper Napoleon ........................................Baltimore, Md.
Primas, Howard Emmett ........................................Camden, N. J.
Quick, John Doward ........................................Rockingham, N. C.
Savoy, Walter Stanford, B. S., Howard.........................Washington, D. C.
Starks, Samuel Lumpkin, A. B., Paine College .................Lisbon, Ga.
Stitt, Richard Howard, A. B., Livingstone.....................Brooklyn, N. Y.

SOPHOMORES
Adams, George William, Jr., B. S., Dartmouth..............Washington, D. C.
Armstead, Abram Dean, A. B., Howard....................Lovelady, Texas
Bell, John Bethel, A. B., Lincoln........................Governor's Island, N. Y.
Brannon, William Griffith Carter, B. S., Howard...........Louisville, Ky.
Brown, Lucius Horace, B. S., Howard.....................Madisonville, Ky.
Carter, Peter Jacob ........................................Franktown, Va.
Cheney, Perry Wadsworth, A. B., Georgia.................Lumpkin, Ga.
Chisholm, Gibbs, A. B., Biddle..............................Frogmore, S. C.
Davis, Raymond Anthony, A. B., Howard......................Washington, D. C.
Fisher, Charles Bennett, A. B., Pittsburgh..............Washington, D. C.
Frazer, Joseph Ethelbert .................................Demerara, B. G.
Gates, George Henry, A. B., Lincoln..................Cumberland, Md.
Hanna, Walter Sylvester, B. S., Howard................Charleston, S. C.
Harden, Elliott Haskett, A. B., Wiley..................Fort Worth, Texas
Harllee, Chauncey Mitchell Depew, A. B., Howard ........Dallas, Texas
Harper, William Henry, B. S., Howard..................Fort Madison, Iowa
Harrison, Joseph Plummer, B. S., Howard................Whitaker, N. C.
Hawkins, James B., A. B., Penn............................Washington, D. C.
*Hayes, James Hyland, Jr., A. B., Penn...................Washington, D. C.
Johnson, James Raymond, A. B., Howard................Owensboro, Ky.
McCain, James Price, A. B., Livingstone.................Southern Pines, N. C.
McCloud, William, A. B., Lincoln..........................Fort Lawn, S. C.
Magruder, William Francis, A. B., Dartmouth............Washington, D. C.
Morgan, Frederick Clifton .................................Barbados, B. W. I.
Perry, Golan Sampson, A. B., Shaw........................Raleigh, N. C.
Scott, Luther James .........................................Jamaica, B. W. I.
Shirley, John Wallbridge .................................Jamaica, B. W. I.
Williams, Rutherford Marcus ................................Chicago, Ill.
Wilson, Wiley Merlio, Phar. D., Howard................St. Louis, Mo.

*Deceased.
### FRESHMEN

<table>
<thead>
<tr>
<th>Name</th>
<th>College</th>
<th>City</th>
</tr>
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<tbody>
<tr>
<td>Allen, James Ulysses</td>
<td>B. S., Howard</td>
<td>Oxford, N. C.</td>
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<tr>
<td>Austin, Henry James</td>
<td>A. B., Lincoln</td>
<td>Princeton, N. J.</td>
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<td>Bagley, Lloyd Smith</td>
<td>B. S., Howard</td>
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<td>Boyd, Charles Henry</td>
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<td>West Palm Beach, Fla.</td>
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<td>Carter, Stansbury</td>
<td>A. B., Cornell</td>
<td>Wilmington, Del.</td>
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<td>Chubb, Louis</td>
<td>G. Anderson</td>
<td>St. Lucia, B. W. I.</td>
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<td>Cook, Jonathan</td>
<td>B. S., Howard</td>
<td>Washington, D. C.</td>
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<td>Dibble, Eugene Heriot</td>
<td>A. B., Atlanta</td>
<td>Camden, S. C.</td>
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<td>Foster, William</td>
<td>B. S., Howard</td>
<td>Tuscaloosa, Ala.</td>
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<td>Gunn, James</td>
<td>A. B., Shaw</td>
<td>Watson, N. C.</td>
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<td>Jackson, Lawrence</td>
<td>B. S., Howard</td>
<td>Washington, D. C.</td>
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<tr>
<td>Jones, Samuel</td>
<td>Arthur, B. S., Howard</td>
<td>Jacksonville, Fla.</td>
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<tr>
<td>Kinner, Sarah Ella</td>
<td>Marie</td>
<td>Pittsburgh, Pa.</td>
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<td>Martin, Andrew</td>
<td>Dible, A. B., Biddle</td>
<td>Charlotte, N. C.</td>
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<td>Matthews, Herbert</td>
<td>Owens</td>
<td>Everett, Pa.</td>
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<tr>
<td>Scruggs, Ivoire</td>
<td>Lorimer, B. S., Howard</td>
<td>Memphis, Tenn.</td>
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<td>Sheffield, Orville</td>
<td>Roslyn, A. B., Shaw</td>
<td>Chicago, Ill.</td>
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<td>Sutton, George</td>
<td>Church, A. B., Western Reserve</td>
<td>Cleveland, Ohio</td>
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<tr>
<td>Vincent, William</td>
<td>Ferdinand, B. S., Howard</td>
<td>Guthrie, Okla.</td>
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<tr>
<td>Whyte, William</td>
<td>Elias</td>
<td>Grenada, B. W. I.</td>
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<tr>
<td>Young, Ralph</td>
<td>Jay, B. S., Howard</td>
<td>Reading, Pa.</td>
</tr>
</tbody>
</table>

### DENTAL COLLEGE

### SENIORS

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bailey, Clarence Carlyle</td>
<td>Norfolk, Va.</td>
</tr>
<tr>
<td>Beatty, John Casson</td>
<td>Alexandria, La.</td>
</tr>
<tr>
<td>Brazier, Joseph Christopher</td>
<td>New Orleans, La.</td>
</tr>
<tr>
<td>Bunch, Lonnie Griffith</td>
<td>Raleigh, N. C.</td>
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<tr>
<td>Clarke, Roger</td>
<td>Washington, D. C.</td>
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<tr>
<td>Claytor, William Oat</td>
<td>Washington, D. C.</td>
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<tr>
<td>Cox, Thomas Robert</td>
<td>Montgomery, Ala.</td>
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<tr>
<td>Cromwell, Ashley Leander</td>
<td>Williamston, N. C.</td>
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<tr>
<td>Davis, Alexander Gaston</td>
<td>Biddle, Charlotte, N. C.</td>
</tr>
<tr>
<td>Dickens, Harvey Horace</td>
<td>Philadelphia, Pa.</td>
</tr>
<tr>
<td>Downing, Ralph Bernard</td>
<td>Altoona, Pa.</td>
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<tr>
<td>Dunn, Moses Daniel</td>
<td>Kerens, Texas</td>
</tr>
</tbody>
</table>
Evans, Egbert Hugh ........................................... Jamaica, B. W. I.
Fyfe, Thomas Leopold .......................................... Jamaica, B. W. I.
Gardener, Roy Ralph ........................................... Norfolk, Va.
Haywood, Harold Edmund ..................................... San Antonio, Texas
Howard, Waldo Jenkins ......................................... Jacksonville, Texas
Hunter, Frank Wilberforce ..................................... Jamaica, B. W. I.
Hussey, Charles S. Castile ..................................... Jamaica, B. W. I.
Inghram, Berry Shumpert, B. P., Rust ....................... Corinth, Miss.
Ingram, William Everett ....................................... Montclair, N. J.
Intsiful, Kofi Tewia, A. B., Livingstone ............... Cape Coast, W. C. Africa
Jones, Thomas Eugene ......................................... Washington, D. C.
Kendrick, Matthew .............................................. Three Notch, Ala.
Lafayette, Albert Simms ...................................... Savannah, Ga.
MacCalla, Reuben Alexander ................................... Jamaica, B. W. I.
Maitland, Clarence Albert ..................................... Baltimore, Md.
Maxwell, Andrew Dibble, A. B., Lincoln .................. Sumter, S. C.
May, Edgar Hollis .............................................. Holton, Kans.
McAllister, Henry Adam ....................................... Fayetteville, N. C.
McLeod, Frederick Jerry ....................................... Florence, S. C.
McMurray, Alonzo James ....................................... St. Louis, Mo.
Parham, James Tunstall ....................................... Danville, Va.
Phillips, Edgar Donald ........................................ Jamaica, B. W. I.
Plummer, Lionel Latimer ....................................... Jamaica, B. W. I.
Pottinger, Simeon Hendric, B. S., Howard .............. New York, N. Y.
Reid, Herbert .................................................. Jamaica, B. W. I.
Robinson, Edna Cordelia Corinna ............................ Montclair, N. J.
Scott, Wyndham Meredith Songer ............................ Wytheville, Va.
Smith, Charles James .......................................... Norfolk, Va.
Thomas, Arthur Lafayette ..................................... Long Branch, N. J.
Westmoreland, Isaac Owen, A. B., Atlanta .............. Atlanta, Ga.
Yancey, Clinton Ernest, A. B., Biddle .................... Danville, Va.

JUNIORS

Bailey, Richmond Napoleon .................................. Tupelo, Va.
Banks, Thomas Jackson, B. Pg., Lincoln Institute .... Chillicothe, Mo.
Barnes, George Spencer, B. S., Delaware State Col ... Oxford, Md.
Benson, Ulysses Grant, A. B., Biddle ...................... Winnesboro, N. C.
Bowser, Russell Linwood, A. B., Livingstone .......... Wilson, N. C.
Cardwell, James Sidney ....................................... Gary, W. Va.
Christopher, Nina King ........................................ Jacksonville, Fla.
COLEMAN, Charles Hiram .............................................. Blackstone, Va.
Cooke, Frederick Cavastal ........................................ Edenton, N. C.
Cork, Leon Hudson, A. B., Howard ................................ Wilmington, Del.
Crosbie, Vernon Fitzroy ........................................... Colon, R. P.
Firse, Dillard Jesse ................................................ Cleveland, Ohio
Franklin, Sandy Thomas, A. B., Swift Memorial .................. Knoxville, Tenn.
Gumbs, James Musgrave .............................................. Anguilla, B. W. I.
Hackett, Robert James .............................................. Baltimore, Md.
Henry, Lewis Anthony, B. S., Delaware State Col. ................ Cambridge, Md.
Hibbert, Walter Nathaniel ......................................... Jamaica, B. W. I.
Horne, Woody Lemuel ................................................ Rocky Mount, N. C.
Lattimore, Oliver Louis .............................................. Rusk, Texas
Lockley, Wesley Selered, Ed. B., Shaw .............................. Raleigh, N. C.
McNeill, Oliver Wendell Holmes ...................................... Washington, D. C.
Nelson, Rembert Thomas ............................................. Galveston, Texas
Norton, Carl Homer, B. S. (A. & M. College) ...................... Tampa, Fla.
Palmer, William Patton ............................................... Newark, N. J.
Parks, James Benson .................................................. Columbia, S. C.
Rivers, Mark Edmond, A. B., Howard ............................... Washington, D. C.
Ross, Blaine Garfield ................................................ Low Moor, Va.
Samuels, Herbert Charles ............................................. Jamaica, B. W. I.
Savoy, Sevellon Davis ............................................... Washington, D. C.
Stone, Alphonso Delaney .............................................. Selma, Ala.
Stronhers, Hulett Cordula ............................................ Swarthmore, Pa.
Taylor, Royal Washington ........................................... Ellerson, Va.
Teabeau, Ralph Bartlett .............................................. Keokuk, Iowa
Van Leesten, Charles Rudolph ...................................... Dutch Guiana
Watkins, Alice May ................................................... Montgomery, Ala.
Williams, William Henry, A. B., Biddle ............................ Goldsboro, N. C.
Zuazo, Virgilio Meneses ............................................. Remedios, Cuba

FRESHMEN

Alston, Charles Henry ............................................... New York, N. Y.
Astwood, Charles Eric ............................................... Turks Island, B. W. I.
Banks, Leonard Angell .............................................. Hampton, Va.
Brown, James Wallace ............................................... New York, N. Y.
Cassell, Louis Ardonis .............................................. Atlantic City, N. J.
Chase, Leonard Alfred ............................................... Baltimore, Md.
Cheevers, James Henry ........................................ Albany, Ga.
Evelyn, Reginald George ........................................ Barbadoes, B. W. I.
Foreman, William Preston, A. B., Howard .................... Tarrytown, N. Y.
Foster, William Harris .......................................... Meridian, Miss.
Garnes, Hasel W. ................................................ Cambridge, Ohio
Garvin, Walter Benjamin ........................................ Jacksonville, Fla.
Gomez, Lamar Joseph ........................................... Washington, D. C.
Green, Vernon Sylvester ......................................... Washington, D. C.
Grinnage, Willard Thomas ....................................... Wilmington, Del.
Grymes, Milton James ........................................... Washington, D. C.
Gunner, William Byron ........................................... Hillburn, N. Y.
Harris, Webster Lee ............................................... Charlottesville, Va.
Henry, Clifford Elwood .......................................... Wilmington, Del.
Hill, Seymour Scott, Jr. .......................................... Montclair, N. J.
Hines, Ashley, Austin, Jr. ....................................... Washington, D. C.
Jervey, Alonzo Webster ........................................... Wilmington, N. C.
Landin, Howard C. ................................................ Asbury Park, N. J.
Leary, Matthew Nathaniel, B. S., Biddle ....................... Charlotte, N. C.
Lee, James Elliott ................................................ Washington, D. C.
Lennox, Troy William ............................................ St. Louis, Mo.
Lord, Guy Adolphus ............................................... Grenada, B. W. I.
Malone, Thomas Nathan, B. S., Alcorn ......................... West Point, Miss.
McClister, John Doby, Jr. ........................................ Camden, S. C.
McKinney, Walter Victor ........................................ Washington, D. C.
Nicholson, Harvey Sylvester .................................. Atlantic City, N. J.
Owens, Henry F. ................................................ Cape May, N. J.
Pookrum, Jasper Henry ........................................... Durham, N. C.
Preston, Charles Watts .......................................... New Brunswick, N. J.
Pyles, Oreal De Amond, B. S., Kansas ......................... Pasadena, Cal.
Robinson, Alexander Wilford .................................. Great Falls, Mont.
Schuster, Ernest Colbjornsen .................................... New Haven, Conn.
Simkins, George Christopher, B. S., Claflin ................. Orangeburg, S. C.
Singleton, John Andrew ......................................... Omaha, Nebr.
Smith, Joseph Willie ............................................ Beaumont, Texas
Smith, Paul Lafayette ........................................... Providence, R. I.
Spivey, Henry P. ................................................ Brewton, Ala.
Stafford, Alphonso Orenzo, Jr. ................................ Washington, D. C.
Staples, Alexander A. ............................................ Freeman, W. Va.
Sullivan, John Wright ........................................... Wilmington, N. C.
Sykes, Frank Jehoy .............................................. Decatur, Ala.
Walton, Adolphus .................................................. Jamaica, B. W. I.
Washington, Lister C. D. ........................................... Jamaica, B. W. I.
Watts, John Edward .................................................. Columbia, S. C.
Wheaton, Layton Johnston, A. B., Lincoln ......................... New York, N. Y.
Whisiker, Henry ................................................... Bluefield, W. Va.
White, Goodloe Durrett ............................................ Bowie, Md.
White, James Arthur ................................................ Roanoke, Va.
Wilkin, Arthur Edmond ............................................. Monserrat, B. W. I.
Williams, Daniel Barclay .......................................... Richmond, Va.
Wiseman, Melanchton Joseph Daniel ................................. Washington, D. C.
Young, Kenneth Mertonel ......................................... Spartanburg, S. C.

PHARMACEUTIC COLLEGE

SENIORS

Beckwith, Charles Bernard ........................................... Washington, D. C.
Blair, James Henry Robinson ........................................ Jamaica, B. W. I.
Childs, Creed Winston, Jr. ........................................ Washington, D. C.
Clark, James Buchanan ............................................. Madison Heights, Va.
Fletcher, James Richard ............................................. Princeton, N. J.
Fowler, Esther Ellen ................................................ Baltimore, Md.
Fowler, Ruth Marie ................................................ Baltimore, Md.
Garnett, Thomas Howard ............................................. Hopkinsville, Ky.
Herriot, George Montgomery ......................................... Washington, D. C.
Jernigan, Robert Lawrence ......................................... Winton, N. C.
Jones, Verdi Merrick ............................................... Washington, D. C.
Mullon, Edward Palmer ............................................... New Orleans, La.
Smoot, John Mandeville ............................................ Cheraw, S. C.
Valentine, Odie Frank ............................................. St. Louis, Mo.
Woodward, William Spurgeon ...................................... Rockingham, N. C.

JUNIORS

Cabell, Newell Atwood, A. B., Howard ................................ Madisonville, Ky.
Chavis, Wellington Rufus ........................................... Charleston, S. C.
Gaines, Jannette Lincolnia .......................................... Baltimore, Md.
Harris, Andrew William ........................................... Washington, D. C.
Hunton, Benjamin Holden ........................................... Toronto, Canada
### SCHOOL OF MEDICINE

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
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<tbody>
<tr>
<td>Milburn, Arland Roland</td>
<td>Wilmington, Del.</td>
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<td>Mitchell, Beatrice Sedilla</td>
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<td>Pollard, Albert Louis</td>
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<td>Pryce, Ulric Woodman</td>
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<td>Reid, Harry Wilson</td>
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<td>Selden, George Howell</td>
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<td>Smith, Oscar Nathaniel</td>
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<td>Thrower, William Harrison</td>
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<td>Toodle, Aaron Conklin</td>
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<td>Walker, Lee Andrew</td>
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<td>Williams, William Robert</td>
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<td>Yancey, Abner Mitchell</td>
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### FRESHMEN

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<td>Beasley, Alonzo Earl</td>
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### Howard University

#### SUMMARY

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<tr>
<th>Medical</th>
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<td>Seniors</td>
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<td>Juniors</td>
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<td>Sophomores</td>
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<td>Juniors</td>
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<td>Freshmen</td>
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| Total       | **311**  |