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BULLETIN OF VANDERBILT UNIVERSITY

NASHVILLE, TENNESSEE



MEDICAL DEPARTMENT

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REGISTER

OF

VANDERBILT UNIVERSITY
FOR 1915-1916

ANNOUNCEMENT
FOR 1916-1917

MEDICAL DEPARTMENT

NASHVILLE, TENN.
PRINTED FOR THE UNIVERSITY
1916

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Assistant to Chair of Diseases of Children.

in the out-patient department. This method of instruction gives each student an opportunity to apply his theoretical knowledge in a practical way.

GENERAL INFORMATION

Vanderbilt University owes its foundation to the munificence of Cornelius Vanderbilt, of New York, who on March 27, 1873, made a donation of \$500,000 for the purpose of establishing the University. This donation was subsequently increased to \$1,000,000.

Mr. W. H. Vanderbilt, son of the Founder, made donations at various times for buildings and equipment. His benefactions amounted to \$500,000.

Mr. Cornelius Vanderbilt, grandson of the Founder, erected Mechanical Engineering Hall, made gifts to current expenses, and left a bequest of \$50,000 for endowment. His various gifts amounted to \$100,000.

Mr. W. K. Vanderbilt, grandson of the Founder, has given to the University more than \$500,000. His donations have been used for the erection of Kissam Hall, a large dormitory accommodating two hundred students, for current expenses, for the rebuilding of College Hall after the fire of 1905, and for the purchase and improvement of the South Campus, the home of the Medical Department.

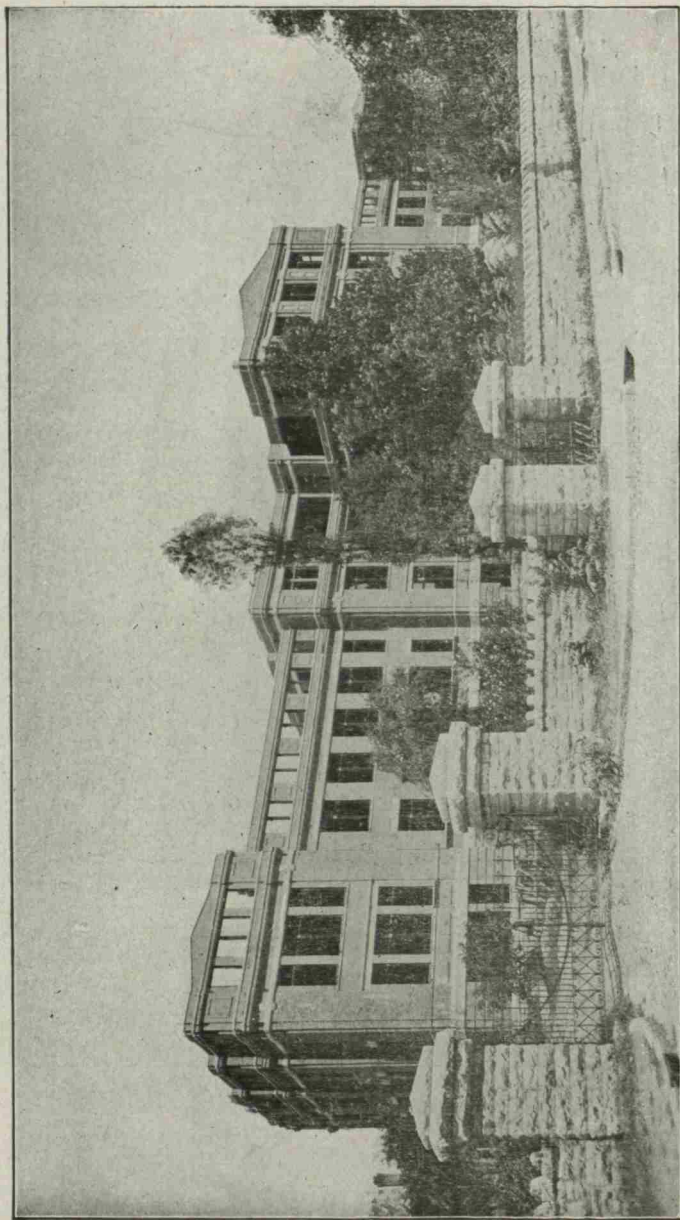
In January, 1911, the General Education Board of New York gave \$150,000 for the general endowment of the University.

In 1907 Furman Hall, the chemical laboratory on the West Campus, was erected from a bequest of Mrs. Mary J. Furman, of Nashville, amounting to \$80,000.

Other valuable gifts have been made to the University from time to time by generous patrons and used for special purposes of endowment, equipment, and scholarships.

DONATION OF ANDREW CARNEGIE, ESQUIRE.

So far as concerns the work of the Medical Department the most notable gift Vanderbilt University has received is the donation of \$1,000,000 by Andrew Carnegie, Esquire. Up to 1913 the property of the Medical Department invested in grounds, buildings, and equipment repre-



GALLOWAY MEMORIAL HOSPITAL



LITTERER LABORATORY OF BACTERIOLOGY

sented an outlay of \$300,000. In May, 1913, Mr. Carnegie made to the Trustees a proposition to enlarge these resources by a gift of \$1,000,000, \$200,000 to be used in erecting and equipping a new laboratory, and \$800,000 to be reserved for endowment. The condition of this gift was that the immediate management of the educational and scientific work of the Medical Department be put in the hands of a Governing Board of seven members. The terms of Mr. Carnegie's proposition were promptly accepted, a Governing Board was appointed by the Board of Trust in June, 1913. This donation of Mr. Carnegie will ever remain the most significant fact of the history of the Medical Department, as it marked the beginning of its great development.

THE LITTERER LABORATORY.

Mr. William Litterer, a philanthropic capitalist of Nashville, has donated to the Medical Department, the former medical building of the University of Nashville, to be devoted to a laboratory designed for bacteriological research. This building has been thoroughly renovated and specially fitted for the purposes for which it is designed.

ORGANIZATION.

The University is organized with seven distinct departments, as follows:

- I. THE COLLEGE OF ARTS AND SCIENCE, embracing Philosophy, Science, and Literature.
- II. THE BIBLICAL DEPARTMENT.
- III. THE LAW DEPARTMENT.
- IV. THE MEDICAL DEPARTMENT.
- V. THE PHARMACEUTICAL DEPARTMENT.
- VI. THE DENTAL DEPARTMENT.
- VII. THE ENGINEERING DEPARTMENT.

Each of these departments has its Faculty of Instruction, charged with its special management.

UNIVERSITY OR WEST CAMPUS.

The West Campus is in the western part of the City of Nashville. The grounds comprise seventy acres, and from their elevation, on a level with Capitol Hill, it af-

fords fine views on every side, and furnishes the full conditions of health. The campus is lighted by electricity, and improved with drives and walks, and about a hundred and fifty varieties of shade trees.

On this campus are located about thirty buildings, devoted to the uses of the Academic, Biblical, Pharmaceutical, Law, and Engineering Departments.

SOUTH CAMPUS.

The Medical Department and Dental Department buildings are situated on this campus comprising sixteen acres in South Nashville, now known as the South Campus. The buildings are grouped in this beautiful park, which is high and healthful, is covered with trees and bounded by four broad avenues. This campus is but two blocks from the Nashville City Hospital.

Central Hall is a beautiful stone building especially adapted for lectures and laboratory work. This building contains the heating plant which supplies heat to all of the buildings on the campus. It also contains the Chemical, Physiological, and Pharmaceutical Laboratories.

The other buildings comprise laboratories, lecture rooms, class rooms and demonstration rooms.

A commodious office and administration building is centrally located on the South Campus, and a book store, library, reading room, Y. M. C. A. rooms, recreation hall, and athletic field are also on the ground.

VANDERBILT HOSPITAL.

The Vanderbilt Hospital, accommodating 100 beds, all used for clinical purposes, sustained by the Medical Department, is located on the corner of Fifth Avenue, South, and Elm Street, two blocks west of the South Campus. The first floor is used for the large outdoor department and dispensary. It is provided with an ample number of consulting and examining rooms and a large surgical amphitheatre with every convenience.

In connection with the outdoor department is provided a special clinical laboratory, in which students do the work under proper supervision.

THE GALLOWAY MEMORIAL HOSPITAL.

Vanderbilt University has given to the Board of Trustees of the Galloway Memorial Hospital a site for the institution on the southwest corner of the South Campus consisting of three acres. This hospital is to be erected in units of the most modern construction and plan, and is to cost \$500,000 when complete. Work on the hospital has begun according to detail plans prepared by Messrs. Hannaford and Sons, who are the architects of the great New General Hospital of Cincinnati. The work of building one of the units is well under way.

In May of this year there was launched a campaign to raise \$200,000 for the completion of the first unit of the Galloway Memorial Hospital. The services of Mr. Frederick Courtney Barber were secured to organize and direct this campaign. His organization included the business, church, social and professional element of the city and community, in a most enthusiastic and compact body. Hundreds of men and women responded to this call and threw themselves with such energy, sympathy and spirit into the ranks of those who worked from the first to the last call of the general committee, that like a mighty tide, the generosity of Nashville, Murfreesboro, Gallatin, Franklin, and Middle Tennessee, swept aside all barriers, and on the final call established a new record by rolling up a grand total of \$260,000 for this most laudable enterprise.

These subscriptions included from the 10-cent gift of the newsboy to those of \$20,000 to \$60,000 of the philanthropists, each giving according to his or her means.

Church nor creed nor color proved a bar to the call, as it was a call of man to man, hence its overwhelming success.

The Medical Department of Vanderbilt University will have the exclusive clinical privileges of this hospital.

CITY HOSPITAL.

The City Hospital, located two blocks from the South Campus, with its 165 beds and large outdoor department, furnishes daily clinics and bedside instruction for the third and fourth-year classes.

CALENDAR.

SESSION 1916-'17.

1916.

- September 26-27—Examinations for advanced standing.
 September 28-29—Examinations for removal of conditions.
 October 2, Monday—Session begins.
 November 30, Thursday—Thanksgiving Day; a holiday.
 December 1-2—Holidays.
 December 23, Saturday—Christmas vacation to Monday,
 January 1, inclusive.

1917.

- January 22, Monday—Intermediate examinations begin.
 February 1, Thursday—Second term begins.
 February 22, Thursday—Washington's Birthday; a holiday.
 March 30-April 3—Spring recess.
 May 27, Sunday—Founder's Day.
 May 28—Contest for Founder's Medal at 8:00 p.m.
 May 28, Monday—Final examinations begin.
 June 10, Sunday—Commencement sermon.
 June 13, Wednesday—Commencement Day. Graduating
 exercises and commencement address, 10:00 a. m.

REQUIREMENTS FOR ADMISSION.

SPECIAL NOTICE—All candidates for the removal of conditions and for advanced standing must be present and ready on above dates. A fee of \$5.00 will be charged for each special examination. All students must be present and in attendance on October 2.

No student shall be permitted to enter the senior class with a condition.

Students in the lower classes who are conditioned on one or two subjects must stand the examination for the removal of conditions at the date specified in the catalogue. If they fail to take this examination, or if they are unsuccessful in passing it, they are required to take all of the conditioned subject or subjects over again, both didactic and laboratory.

Entrance conditions must be removed before a student enters upon the sophomore year.

The completion of the standard four-year high school course covering at least fourteen units, and an additional year in college, which must include courses in Chemistry, Physics, Biology, and one modern language.

The standard four-year high school course must include seven required units as follows: English, 2 units; Mathematics, 2 units (Algebra and Geometry); Foreign Languages (Latin, Greek, German, and French), 2 units; American History and Civics, 1 unit.

The course for the remaining seven units is elective, and may be selected from the following branches: English Language and Literature, Foreign Languages (Italian, French, Latin, Greek, German, and Spanish), Advanced Mathematics, Natural Science, Chemistry (1 year), Physics (1 year), and Biology, Botany, Physiology and Zoology ($\frac{1}{2}$ to 1 year), Earth Science—Physical Geography, Geology and Agriculture ($\frac{1}{2}$ to 1 year), Astronomy ($\frac{1}{2}$ -year), Drawing ($\frac{1}{2}$ -year), History—Ancient, Medieval and Modern—and English (1 year each), Economics ($\frac{1}{2}$ -year), Manual Training (1 year), Bookkeeping ($\frac{1}{2}$ to 1 year).

One unit in any subject is the equivalent of work in that subject for four-five (4-5) periods per week, for a year of at least thirty-six (36) weeks; periods to be not less than forty-five (45) minutes in length.

The preliminary college year should extend through one college session of at least thirty-two (32) weeks of actual instruction, including final examinations.

All credentials must be passed upon by the General Committee on Credentials of the University and also by the State Board of Preliminary Examiners, and by the Dean of the Medical Department.

The total minimum hours, in the Premedical Course, Didactic and Laboratory, are as follows:

SUBJECT	Total Hours Lectures or Recitations	Total Hours Laboratory Work	Total Minimum Hours Didactic and Laboratory
Physics, 1	64	128	192
Chemistry, 1	64	128	192
Biology, 1	64 or 96	128 or 64	128 or 160
German or French, 2.	128 or 96	128 or 96
Totals	320	380 or 320	704 or 640

A student may be admitted with certain subjects conditioned, provided he has completed at least one year (30 semester hours) of work in a College of Liberal Arts and Science approved by the College of Liberal Arts and Science to which Medical School is attached, provided no condition may be permitted in the prescribed eight semester hours of college chemistry. These conditions may be either in (1) or (2), but not in both: (1) In one-half (four semester hours) of the required course in Physics, or, (2) in one-half of the required course in Biology (four semester hours), or in Zoology (three semester hours). These conditions must be removed before the beginning of the work of the second medical year and the credits for these conditions must be in addition to the required thirty semester hours.

THE PREMEDICAL COURSE.

This course will be given in the College of Arts and Science of the University, and students desiring information concerning this course will write the Dean of that department.

ADVANCED STANDING.

A student who has attended one or more courses at a medical college, which is a member of the Association of American Medical Colleges, and which is rated in Class A, and, desiring to enter this institution, will be given credit, provided he presents a statement from the Dean of the college from which he desires to withdraw, certifying to his moral qualifications and to the exact work he has done in said college.

No advanced standing is given to those having academic degrees, nor to graduates in Pharmacy or Dentistry.

GRADUATE WORK.

Graduates in Medicine may pursue advanced work upon paying a matriculation fee of \$5.00 and a hospital fee of \$5.00.

Laboratories are extra and will be charged at the rate of \$10.00 for any single laboratory and \$5.00 for each additional laboratory course.

EXAMINATIONS.

Each class will be examined on subjects as completed. A student falling below the required grade in any subject may be permitted to make up the deficiency at the beginning of the next session by satisfactorily passing a special examination in the subject in which he is deficient, provided his grade is over 55 per cent; otherwise, he will be required to repeat the work next year.

A student making a grade of less than 55 per cent at mid-session examinations on any subject not finished at that examination will be required to take that subject again the next year.

If a student fails to satisfactorily complete his work in three or more subjects in any year, he shall take the whole year's work over.

Any student whose grade falls below 55 per cent on any three subjects at mid-session examinations will be required to withdraw from school until the beginning of the next session.

Credit for a full course of instruction will not be given unless the student remains throughout the session and successfully passes all the examinations in the subjects required in the class for which he desires credit.

Examinations during the lecture hour may be held at any time, at the option of the professor.

A candidate for graduation failing to pass in not more than two subjects will be granted a second examination, provided the average grade of his first examination is not less than sixty-five per cent.

Those applying for advanced standing and for the removal of conditions, will be examined September 26, 27-28, 29 (see Calendar, page 12) on the South Campus.

REQUIREMENTS FOR A DEGREE.

To be eligible for the degree of Doctor of Medicine, every candidate must fulfill the following conditions:

1. He must have attained the age of twenty-one years, and must sustain a good reputation for moral character.
2. He must have spent four years as a student in this department; or, if but one, two or three years in this institution, he must have pursued such studies, in some

other recognized institution, as are considered by the faculty to be the equivalent of the remainder of the full term of study. The last year must have been in this institution.

3. He must have passed, to the satisfaction of the Faculty, all of the prescribed examinations of the course.

HONORS.

FOUNDER'S MEDAL.—This is the highest prize offered in each department of the University, and in the Medical Department it is awarded each year to the graduate who attains the highest average grade in the work of the fourth year of his medical course.

SCHOLARSHIPS.—To each student attaining the highest average grade in the first, second, and third years will be awarded a scholarship valued at fifty dollars, which will be credited on the tuition of the following year.

THE BEAUCHAMP SCHOLARSHIP.—(See Mental and Nervous Diseases.)

APPOINTMENTS.—Numerous appointments to internships are at the disposal of the Faculty each year, in hospitals throughout the country in addition to those in the Nashville City Hospital, the Vanderbilt Hospital, St. Thomas Hospital, and Woman's Hospital.

The appointments made this year are given on page 44.

FEES.

Tuition Fee for each year. This includes matriculation fee, professor's ticket, laboratory and demonstration fees.....	\$ 150 00
Contingent fee, to cover breakage of apparatus and damage to buildings, which will be returned, less the charges, at close of session.....	5 00
Fee for anatomical material, per part.....	2 00
An Athletic fee of \$5.00 is required of all students matriculating on South Campus. Three dollars of this fee gives the student admission to all athletic contests on Dudley Field, which includes football, basket ball, baseball, and track; the remaining \$2.00 extends to the student the privilege of shower baths, tennis courts, athletic field, recreation hall, and the Y. M. C. A. reading rooms on South Campus.....	5 00
Total ordinary fees for first, second and third-year students.....	160 00
Graduation fee charged fourth-year students.....	25 00
Total ordinary fees fourth-year students.....	185 00
Board, room, and laundry, per month.....	\$20 30 00
Microscopes, see page 28. Instruments can be purchased on annual instalments as follows:	
Microscope—Price, \$67.50; four instalments at.....	16 85

No additional fee is required for City Hospital or Vanderbilt Hospital work. The graduation fee will be returned should the applicant fail to graduate. Students

are required to pay one-half of their tuition at the beginning of the session and the other half on or before February 1st.

Graduation fees are due April 1st.

WITHDRAWALS.

Students withdrawing or receiving their dismissal from the department will not be entitled to any return of fees.

FACILITIES FOR INSTRUCTION.

As the laying of the proper foundation is an essential to the more advanced work in the study of medicine, ample provision is made to meet this demand in the complete equipment of the various laboratories, both with apparatus and material needed for thorough teaching.

These laboratories include those of Chemistry, Anatomy, Histology, Physiology, Pharmacology, Pathology, Bacteriology, and Clinical Microscopy. For the amplification of the course in each of these, see the extended description of the work in each of these departments.

Clinical instruction, which forms a most important feature of the course, is provided for by the advantages of the City Hospital and the Vanderbilt Hospital, as well as the outdoor Clinic and Dispensary.

Medical and surgical clinics and bedside instruction are held daily in both of the hospitals, and the outdoor Clinic and Dispensary furnishes ample material, which is used for practical instruction to sections of the classes, where under the supervision of instructors each student is taught how to investigate, record, diagnose, and treat patients according to approved clinical and laboratory methods. To advanced students certain cases medical, surgical, and obstetrical are assigned for home treatment, under the direction of instructors.

Each senior student serves as surgical dresser and clinical clerk in the Vanderbilt Hospital. The duties of these positions include the examination of blood, urine, sputum, and such other clinical and laboratory work as individual cases may demand or the clinician may require for a thorough study of the condition presenting. They

are also taught how to administer anæsthetics, both local and general, and opportunity is offered from time to time, in the clinics, for practical experience in acquiring skill in this most essential factor in the art of surgery.

VANDERBILT MEDICAL LIBRARY.

One of the recent additions is the unusually complete medical library which was donated to the University by the Nashville Academy of Medicine. The library is located on the South Campus and is open to the students of all classes and the profession of the city daily, and contains more than six thousand volumes, numerous pamphlets and complete files of all the leading American and foreign periodicals.

In addition to this students will be allowed to call on the Surgeon General's Library of Washington, D. C., for special information.

HOSPITALS.

The hospital facilities embrace the clinical material furnished by the Vanderbilt Hospital, the City Hospital, the Central Hospital for the Insane, the Davidson County Tuberculosis Hospital and the Davidson County Isolation Hospital, giving ample opportunity to students of the third and fourth classes in ward class work and in the outdoor departments. Upon the completion of the Galloway Memorial Hospital, its clinical facilities will also be under the control of this department.

STUDENT ORGANIZATIONS.

VANDERBILT Y. M. C. A.

The Vanderbilt Young Men's Christian Association is now the best known and well recognized organization in the student life on South Campus. It has the largest and most representative membership of any student organization in the University. The aim of this Association is to serve each student to the utmost by affording him wholesome companionship, by providing opportunities for making friends of those whose ideals in life are inspired by the Christian spirit, and by co-operating through each faculty in maintaining a sane, vigorous interest in all the

worthy activities of the student and in the life of the University itself. The Y. M. C. A. is interdenominational in character, evangelistic in practice, missionary in spirit, and Christian in purpose. The Vanderbilt Association is a member of the International Organization of North America, and is affiliated with the World's Student Christian Federation, and with the Student Volunteer Movement.

The following are some of the Association activities on South Campus. A student reading and rest room with the best medical and literary magazines is provided, and is open to all the college students; shower baths, tennis, and all other forms of athletics, such as basket, base and football, are provided for the physical development of those who desire it.

Bible, Mission and Social study classes are organized by and for the students, for the purpose of study, inspiration and practice. The religious meetings are conducted on Sunday at 2 P.M., in College Hall. Prominent and well known speakers from the city and faculty of the University are invited to deliver lectures upon interesting problems, as have to do with social, moral, scientific and religious questions of society. These meetings have proven most helpful to the student life on South Campus.

Membership in the Association is purely voluntary, and the work is supported by voluntary contributions from its members, from members of the Vanderbilt faculty and friends of the Alumni.

The Ladies' Auxilliary of the Association was organized by some of the most prominent ladies in the college community, to further serve the needs of the Association, and provide social entertainment for the students of the University.

STUDENTS' MEDICAL SOCIETY.

One of the most effective organizations in the Medical Department is the Students' Medical Society. Its objects are to cultivate a greater fellowship among the students of this Department, to inspire a deeper interest in medical literature and research, and to train men to prepare and deliver papers on scientific subjects,—in

brief, to give its members a training which can be calculated to insure them a maximum of power and usefulness in their professional life. Membership is open to any student of the Medical Department, and the present membership includes a large number of the strongest men in the University.

The Society has at its disposal two Faculty Prizes,—a first prize of one-half credit on a \$70.00 microscope or books to the value of \$35.00; a second prize to consist of any three standard volumes to be selected by the winner from the University Book Store. Competition for the above prizes is open to every member of the Society, each member having the privilege of submitting one paper during each year, and writing upon any subject that may appeal to him.

ATHLETICS.

While the Gymnasium and Athletic Field of the West Campus are open to all students of the University, special provision has been made on the South Campus for the students of the Medical and Dental Departments.

The athletic equipment includes a large recreation ground for all kinds of outdoor sports and a commodious building supplied with baths, barber shop, etc.

HOMES FOR STUDENTS.

Students are allowed to select their own homes in families approved by the faculty. There are good boarding houses near the South Campus. Students so desiring can live in the dormitories of the University on West Campus.

COURSE OF STUDY.

The course of study extends through four regular sessions, each being eight and one-half months in length.

The session is divided into two terms. The first beginning with the college year and the second beginning February 1, 1917.

For detailed information concerning courses of study for each year see schedule, pages 41, 42, 43.

METHODS OF INSTRUCTION.

The rapid progress of medicine and the general demand for higher medical attainments have wrought a marked change in the methods of instruction.

No course of instruction by didactic lectures, however learned, can take the place of laboratory training and clinical experience at the bedside, where students are brought into close personal relation with each professor and instructor, thereby inciting them to active personal work and a higher degree of proficiency. Class-room recitations are held daily, and together with laboratory and clinical work, will largely replace didactic lectures, though such lectures are retained as best in some courses, and as essential, to some degree, in all.

Instruction in post-mortem examination is given to the third and fourth-year classes, as a part of the course in pathology. The advantages offered for clinical instruction, which is such an important feature in the course, are excellent, both at the large City Hospital and at the Vanderbilt Hospital, Clinic and Dispensary.

Daily clinics, both medical and surgical, are held at each hospital. In addition to this clinical instruction, each advanced student is required to examine and treat all kinds of diseases under the personal supervision of the professor or his assistant.

Advanced students also have cases from the medical, surgical, and obstetrical clinics assigned to their care for home treatment, under the direction of instructors.

The fourth-year students are assigned the care of outdoor maternity cases when two students have complete charge under the direction of the professor.

SURGERY AND CLINICAL SURGERY.

Professors: DRs. EVE, BARR, MCGANNON, W. A. BRYAN, and HAGGARD.

Associate Professors: DR. EVE, JR., DR. McCABE.

Lecturer or Orthopedic Surgery: DR. BILLINGTON.

Lecturer on Rectal Surgery: DR. PICKENS.

Assistants: DR. BROWN, DR. WILLIAMSON, DR. CRITTENDEN.

Anæsthetists: DR. MARR, DR. REYNOLDS.

The University has seen fit to separate the chair in such a manner as to give every advantage to both the junior and senior students. The course embraces general surgery in its entirety and is so divided that the junior students are drilled in the principles of surgery; and the senior students are drilled in the practice of surgery, including bedside work in small sections where, under the supervision of the professor or his assistant, they are required to take histories, examine patients, make diagnoses, etc. The Vanderbilt Hospital furnishes an abundance of material upon which to demonstrate anæsthesia, the application of surgical dressings and the management of emergency surgical cases. Especial attention to the preparation of third-year students for a larger comprehension of this department is begun early in their course and such subjects as surgical pathology with demonstration of pathological material; surgical technique; surgical materials; case taking, etc., are duly stressed in the beginning of the term, while in the latter half they are given surgical anatomy contemporaneously with a comprehensive course on the various surgical diseases. The junior students are required to attend all general clinics in this department and the course is so arranged that special clinics to junior students illustrating the subject under consideration are held at frequent intervals throughout the year.

The work in the fourth year is entirely practical, beginning with laboratory work.

A thorough course in operative surgery upon the cadaver is given, in which the student is required to perform ligations, amputations, etc., with a comprehensive course on surgery of special organs.

The members of this class are required to examine patients, both in the hospital and dispensary, to administer anæsthetics under the guidance of a trained anæsthetist; to assist in minor and major surgical operations performed in general or special clinics; to follow the after treatment of operated cases and serve the allotted time as internes in the Vanderbilt Hospital.

The professors or their assistants will frequently demonstrate the rarer operations upon the lower animals.

The course in Orthopedic Surgery is given to both third and fourth-year students.

To the third-year students thirty-two hours are devoted to recitations and clinical demonstrations.

The fourth-year work is entirely clinical and consists of one operative clinic a week.

PRINCIPLES AND PRACTICE OF MEDICINE, AND CLINICAL MEDICINE.

Professors: DR. J. A. WITHERSPOON and DR. WITT.

Associate Professor: DR. O. N. BRYAN.

Associate Professor: DR. OUGHTERSON.

Instructors: DR. SMITH, DR. HARRIS.

Assistants: DR. DABNEY, DR. JACK WITHERSPOON, DR. MANIER, DR. FUQUA, DR. AYCOCK, DR. SHOULDERS, DR. REYNOLDS, DR. GIVAN, DR. DABBS, DR. BROWN.

Instruction in internal medicine extends over three years, and an effort is made to maintain a proper balance between didactic and clinical work. The constant use of standard textbooks is insisted on, and students are taught the art of special study of monographs and extensive treatises. The established facts of medicine, both scientific and practical, are thoroughly drilled into the student, and he is encouraged to have an open mind towards unsettled problems, and the nature of these problems is plainly stated to him.

SOPHOMORE YEAR.—One hour a week for the entire year, or two hours a week for the half year. This course is conducted by Dr. Dabney, and is devoted almost entirely to Normal Physical Diagnosis. It is both didactic and clinical. Students are required to pass examinations on this course.

JUNIOR YEAR.—The systematic study of internal medicine is taken up in this year. Dr. Witt gives three hours a week to class room work to the entire class. This is almost altogether didactic, and covers approximately half the subjects to be taught, including the acute infectious diseases and diseases of the respiratory system. Definite lessons are assigned in Osler's Practice of Medicine, and are quizzed on at each hour. About one-third of the hour

is devoted to lecturing on such points as seem to need special elucidation. Dr. Witt also conducts two clinics a week at which one-half the class is present. Dr. Harris and Dr. Smith conduct similar clinic hours, two every week each.

Dr. Smith, Dr. Manier, Dr. Fuqua and Dr. Aycock conduct section work in the outdoor department and wards of the City Hospital—chiefly in the wards. The sections are composed of about ten men each and the work is entirely practical. Students are required to take histories, make physical examinations and such laboratory examinations as their instruction in other departments warrants. As Bacteriology and Hematology are taught in the first and second years, their practical application is required in the ward and dispensary sections. Each student has about twelve weeks of this work—one hour and a half every afternoon. Cases are worked up in the wards and used in the amphitheatre clinics held by Dr. Witt and Dr. Harris.

Dr. O. N. Bryan and associates conduct a systematic course in Physical Diagnosis—using Cabot as a textbook. Lessons are assigned and recitations conducted, but the bulk of the instruction is practical—in the wards of the City Hospital. This course involves two hours a week for the entire year.

Altogether the Junior student has about eleven hours a week in Internal Medicine, two-thirds of which is practical.

MEDICINE—JUNIOR YEAR.

Didactic: Three hours a week to the entire class: DR. WITT.

Clinical: (1) Systematic study of Physical Diagnosis—chiefly clinical and in sections (wards of City Hospital). Two hours a week: DR. O. N. BRYAN, DR. MANIER, DR. FUQUA.

(2) Outdoor Department and Wards City Hospital: Sections of ten, eight hours a week for twelve weeks: DR. SMITH, DR. FUQUA, DR. AYCOCK.

(3) Clinical Amphitheatre of City Hospital and College Hospital: In sections of half the class, three hours a week each section: DR. WITT, DR. HARRIS, DR. SMITH.

Students are graded throughout the year on all work, class room, dispensary, and bedside, and these grades count in the year's standing. At the close of the year every student is required to undergo at the bedside a rigid examination in clinical methods.

SENIOR YEAR.

Instruction in internal medicine in the Senior year is largely clinical. Dr. Witherspoon gives one didactic lecture each week, taking up such subjects as are not taught in the third year, including chiefly the diseases of the stomach and bowel, cardio-vascular system, focal infections, kidneys, etc. A part of this time is devoted to quizzing on the subject matter of previous lectures. It is the policy to have fewer didactic lectures and Drs. Bryan and Oughterson will meet the students three times a week for classroom work where lessons are assigned in standard textbooks and students quizzed and graded, these daily grades counting at the end of the term in determining the student's standing.

Dr. Witherspoon also conducts two clinics a week to entire class. For these clinics special cases are selected each week and the class divided into sections of five, who take the history, make all physical and laboratory examinations, together with their diagnosis and suggested treatment, and present the cases to the class one week later in the Professor's presence. These five students are then quizzed by the student body and Professor, who then sums up the case and outlines the treatment based on this report and his examination of the patient. Similar clinics are also conducted three times a week by Drs. Bryan and Oughterson. Many clinical cases are brought before the class from time to time and their progress observed by the student body, thus giving them an opportunity to note the value of treatment and the general progress of the case studied by them. These clinics are held in both the Outdoor Dispensary and Vanderbilt Hospital to one-half of the class each week. In addition to these clinics there is section work in the wards of the Vanderbilt Hospital and City Hospital four hours a week throughout the year. For this work, classes are divided

into small sections and the work will be conducted at the bedside by Drs. Bryan, Oughterson, Jack Witherspoon, Harris, Shoulders and Jones. Section work is also done in the College Dispensary five hours a week for part of the year under supervision of Dr. Jack Witherspoon. In connection with the Outdoor Dispensary there is a well-equipped clinical laboratory where students do the necessary laboratory work for the outdoor patients under an instructor. This work in the laboratory, together with writing of histories and strictly bedside instruction under the supervision of the teacher, is insisted upon, believing that the combined methods of examination are essential to their knowledge of diagnosis and treatment.

Each Senior student will receive about twelve hours a week in internal medicine.

DISEASES OF THE EYE, EAR, NOSE AND THROAT.

Professors: DR. PRICE and DR. WOOD.

Instructor: DR. MOORE.

Assistants: DR. MOORE, DR. EZELL, DR. SULLIVAN, DR. ORR.

The Junior students receive instruction in diseases of the ear, nose and throat, and the Senior students instruction in diseases of the eye.

To the Juniors are given two lectures each week during the second semester, and one clinic each week during the entire session. In the lectures all the more common diseases of the ear, nose and throat are explained, and in the clinics the methods of diagnosis and treatment are carefully and fully demonstrated. As the clinical material is abundant, small sections of the class have shown to them the details of the various operations performed upon these organs. The class is divided into sections, each section serving its time in the Outdoor Dispensary at the Vanderbilt Hospital, where the students are taught the use of instrumental methods of examination and are required to make, under the supervision of the demonstrator, a diagnosis and to outline the treatment of these diseases. Review quizzes are held at frequent intervals to clear up points of doubt in the mind of the student and the course is concluded with the final examination.

To the Senior class are given two lectures each week on the anatomy, physiology, methods of examination, and diseases of the eye for one-half year. In this course emphasis is laid upon those diseases most frequently coming under the observation and care of the general practitioner. In this department one clinic is held at the hospital each week before one section of the class. In the Outdoor Department of the Vanderbilt Hospital each student is taught the use of instrumental methods of examination and is required to make diagnoses, the object being to give the student a practical working knowledge of this subject.

The objects aimed at in this department are to prepare physicians to diagnose and treat the more common diseases of these organs, and also to be able to recognize conditions dependent upon constitutional disorders.

OBSTETRICS.

Professors: DR. ALTMAN, DR. TUCKER, and DR. HOLLABAUGH.

Assistants: DR. TEACHOUT and DR. COWAN.

Instruction in Obstetrics is given to the third-year and fourth-year students.

THIRD YEAR: PROFESSOR, DR. HOLLABAUGH. Thirty-two hours.

It embraces lectures, recitations, demonstrations by wall plates, charts, and the manikin, and includes a certain amount of Embryology together with Obstetric Anatomy and Physiology, the diagnosis, mechanism and management of normal labor and the normal puerperium.

FOURTH YEAR: PROFESSORS, DR. ALTMAN and DR. TUCKER.

Sixty-four hours, bedside clinic and bedside work.

This class is taught by lectures, recitations, manikins, and bedside work, and includes the pathology of pregnancy, labor, and the puerperium, obstetric surgery as well as fetal pathology.

In addition to the clinical advantages furnished in the City Hospital, bedside instruction is given in the Vanderbilt Hospital, where pelvimetry and the ante-partum

examinations are given in sections. Especial attention is given to the large outdoor clinic where students are assigned to cases under the supervision of the professor or assistants and a trained nurse. In this way each member of the class will have an opportunity of acquiring practical experience in obstetric work.

GYNECOLOGY.

Professor: DR. BURCH.

Associate Professor: DR. TIGERT.

Chief of Out-Patient Department: DR. GALLAGHER.

Demonstrator: DR. DIXON.

Instructor: DR. MCKINNEY.

Assistants: DRs. EDWARDS, BROWN and TUCKER.

The instruction in this course is taken up during the third and fourth years. Didactic lectures to the third-year students are given by Dr. Tigert, two hours a week during the second term, on the anatomy of the female genital organs and of the pelvic floor. The disorders of menstruation and inflammatory disorders of the uterus and appendages are also covered. During the fourth year the work is nearly all practical. Dr. Burch gives two didactic hours per week during the first term, taking up diseases of the breast, uterine and ovarian tumors, cancer, extra uterine pregnancy and lacerations of the pelvic floor and cervix.

Dr. McKinney will give a special course on Gynecological Pathology to the students of the third and fourth-year classes.

The Senior and Junior classes in sections are placed in the out-patient departments and wards of the City and Vanderbilt Hospitals, and practical instruction is given them by Drs. Gallagher, Edwards and Brown. In this way each student is afforded ample opportunity for the examination of the female, the use of the various examining instruments and pessaries. Once a week three students are required to assist the operator in the various gynecological operations. The various gynecological operations on the cadaver are given to the sections of the senior class by Dr. Dixon.

Drs. Burch and Tigert each hold one clinic a week at the Vanderbilt and City Hospitals for the Junior and Senior classes in sections.

BACTERIOLOGY.

Professor: DR. LITTERER.

Assistants: DR. A. B. JONES and DR. B. F. BOYD.

For instruction in Bacteriology the laboratory is supplied with all the necessary apparatus for a comprehensive course in this subject. The student is individually taught the different processes of media making and of bacteriological technique, besides mounting and studying specimens of the various pathogenic micro-organisms. As full an assortment of the various bacteria as can be conveniently maintained is kept constantly on hand. Every facility is afforded in this department for original work. For illustrating the above courses, an electric lantern with microscopic projection apparatus is used.

POST-GRADUATE COURSES.—The laboratory, having a most complete outfit of all the necessary apparatus, is especially adapted for post-graduate instruction, as well as for the instruction of students who desire to take a special course in laboratory research. Post-graduates desiring to avail themselves of modern methods in microscopic diagnosis will find every facility extended for pursuing their studies. The laboratory is open for instruction at least six hours each day, and the professor or his assistants will be available at such hours as do not conflict with special clinical or other post-graduate work.

MICROSCOPES.—Each new student will be required to have his own microscope. To meet this requirement arrangements have been made to sell high-grade instruments to students upon the instalment plan as outlined under the head of fees. The great advantage of this arrangement is that each student will have at the close of his college career a microscope of his own, with which he is familiar and which has been purchased on the most economical plan.

MENTAL AND NERVOUS DISEASES.

Professor: DR. CROCKETT.

Associate Professor: DR. HARRIS.

Instruction in Neurology extends over the third and fourth years.

THIRD YEAR.

Before the diseases of the nervous system are taken up, the student is carefully reviewed in the practical anatomy and physiology of the brain and cord. Special attention is then given to explaining the symptoms that arise in the course of development of diseases. Then the definite diseases are taken up in detail.

The Beauchamp Scholarship, founded by Mrs. John A. Beauchamp in memory of her husband, who was for many years the Superintendent of the Central Hospital for the Insane, at Nashville, will be awarded to the student showing the greatest progress in this department and being otherwise worthy and deserving.

Lectures and Quizzes: Two hours a week throughout the year. DR. CROCKETT and DR. HARRIS.

Clinic: An hour a week throughout the year. At the clinic hour special attention is paid to a systematic examination of the patients by the class.

FOURTH YEAR.

One-hour clinic throughout the year.

Members of the fourth-year class are taken in sections to the Central Hospital for the Insane, where abundant material is available for the study of mental diseases.

PHYSIOLOGY AND PHARMACOLOGY.

Professor: DR. HAMBLETON.

Instructor: H. E. FRASER, B.S.

Assistant. J. W. SIMPSON, A.B.

Twenty-four hours a week for fourteen weeks. Total 336 hours.

The instruction in Physiology embraces systematic courses of lectures, practical laboratory work by the students, demonstrations and conferences given in the second year. The students before entering upon their work

in this department have been trained in Normal Histology, Anatomy, Organic Chemistry and Physiological Chemistry. The didactic and experimental courses are taken up in the same general order so that the theoretical and practical work may supplement each other. Especial stress, however, is laid upon the practical work done in the laboratory by the student himself, so that he may become acquainted with the subject by actual observation. The course is arranged for the student of medicine, and where possible, reference is made to the application of physiology to medical and surgical practice. The first few sessions of the class are devoted to the study of the general properties of protoplasm, and a review of those portions of electricity which are of importance to the medical student.

The Physiology of Muscle and Nerve, Blood, Circulation, Respiration, Secretion, Digestion and Excretion, Metabolism, Internal Secretions, Bodily Temperature and the Central Nervous System are then systematically studied in the order given. In the laboratory the necessary experiments are conducted upon the lower animals, mammals under anæsthesia, or on man, the class being divided into groups of two or four students each. A full equipment of the necessary apparatus is supplied to each group. Each student is required to keep a detailed record of the observations made, including tracings. At special conferences of the class held throughout the course the work done by each group is reported and the findings of the various groups are compared and discussed. Some of the more complicated experiments are given as demonstrations.

PHARMACOLOGY.

Fifteen hours per week for eighteen weeks. Total 120 hours.

The course in Pharmacology, given during the second year, consists of a systematic course supplemented by informal lectures and recitations. Experiments on cold-blooded and warm-blooded animals illustrating the actions of drugs and the methods of pharmacological experimentation, are performed by the students working in

groups of two to four. The results are systematized in conferences and quizzes, following the laboratory period.

CHEMISTRY.

Professor: DR. SHIEB.
Instructor: DR. LEARY.
Assistant: MR. GILL.

Instruction in Chemistry is given by lectures, fully illustrated by experiments, recitations, and thorough laboratory work. It consists of a general course of organic and physiological Chemistry, with special reference to medicine. In the first term, thirty-two lectures and recitations are given in organic Chemistry, and ninety-six hours are given in experiments and analysis and preparation of organic compounds. In the second term thirty-two lectures are given in physiological Chemistry and ninety-six hours' laboratory work, devoted to the study and analysis of physiological products. Each student has a laboratory desk assigned him, in which he keeps his apparatus under lock and key during the entire session. The chemical laboratories are equipped with all the apparatus necessary for the prosecution of the most thorough and advanced work in medical Chemistry.

DERMATOLOGY AND ELECTRO-THERAPEUTICS.

Professor: DR. J. M. KING.
Assistant: DR. H. F. FRIEDMAN.

The course in Dermatology embraces a review of the histology and the pathology of the skin, also instruction in the special therapeutics and pharmacy on the subject, an effort being made to establish sound principles for the treatment of diseases of the skin. The diseases are taught by clinics and lectures, supplemented with charts and models, stress being laid upon clinical teaching.

The course in Electro-Therapeutics is given by lectures and demonstrations. The fundamentals of electricity are reviewed, the physiological effects of the different currents discussed, and the methods of use and application demonstrated. The X-Ray is thoroughly presented.

APPLIED ANATOMY.

Professor: DR. CALDWELL.

APPLIED ANATOMY.—Two hours a week for half the session to Junior students by Dr. Caldwell. A systematic study of the normal, living body will be taken up. This course will include regional, relational, and surface anatomy, the living model being constantly used for study and demonstration. All class work is carefully graded.

PATHOLOGY.

Professor: DR. JOBLING.

Assistant Professor: DR. EGGSTEIN.

Instructor in Surgical Pathology: DR. BRIGGS.

Instructor in Gynecological Pathology: DR. MCKINNEY.

Assistants: DR. D. A. GREGORY, DR. W. B. GODDARD, DR. E. S. MAXWELL.

The regular course in Pathology will begin March 1st. The course is subdivided as follows:

(a) *Lectures and Laboratory Work*.—Instruction includes recitations, demonstrations, and work in the laboratory. General pathology will be taught by recitations given in association with study of the gross and histological characters of the lesions concerned, and will be illustrated whenever possible by means of experiments. Pathological histology will be studied by means of well-prepared loan sections and the important points in each section will be demonstrated by means of lantern slides. Not only is the student required to study these sections, but he will also be required to draw and write full descriptions of all the lesions present. In addition the student will study fresh tissues obtained from autopsies. Recitations daily from 8 to 12 M., from March 1st to June 1st.

(b) *Autopsies*.—Autopsies will be performed before the third and fourth-year classes. The students will be instructed in the methods of post-mortem examination and in small groups will have the opportunity to practice the methods employed. The same groups will also make a microscopic study of the tissues removed. Special atten-

tion will be given to the preparation of post-mortem records.

(c) *Gross Pathology*.—Fresh pathological tissues will be demonstrated to small groups and this will be supplemented by museum specimens, and by sections prepared from the fresh tissues by freezing.

(d) *Advanced Work and Research*.—Those students who have the training necessary for advanced work will be encouraged to undertake special study of problems in histological pathology and experimental pathology. The laboratories are provided with the apparatus usually employed in such investigations.

ANATOMY, HISTOLOGY AND EMBRYOLOGY.

Professor: GEORGE M. CURTIS, A.M., Ph.D.

Associate Professor: REUBEN M. STRONG, A.M., Ph.D.

Instructor of Anatomy: EDWIN H. MAGEE, A.B.

Instructor of Histology: HAROLD CUMMINS, A.B.

Assistants in Anatomy: DR. R. E. WYATT, J. B. NAIVE, A.B., N. S. SHOFNER, B.S.

Assistant in Histology: W. E. CAMP.

The instruction in gross human anatomy is so arranged that the required work in this subject for the degree of Doctor of Medicine may be completed during the forenoons of the first year of the medical course. A systematic study of the gross structure of the entire body is provided for in Courses 1, 2, 3 and 4. During the last eight weeks Course 5 is offered, supplementary to the above courses, for the study of regional and topographical anatomy, in which emphasis is laid upon those features of anatomy having direct application to the practice of medicine and surgery.

The work in Histology and Embryology, including the gross and microscopical anatomy of the nervous system and special sense organs required for the degree of Doctor of Medicine is completed during the afternoons of the first year of the medical curriculum. (Courses 6 and 7.)

TEXT BOOKS.—Descriptive Anatomy: Howden-Gray Anatomy, Cunningham's Text Book of Anatomy (4th

edition). Dissecting Guide: Streeter's Laboratory Guide. Atlases: Spalteholtz Hand Atlas of Human Anatomy, Sobotta-McMurrich Atlas and Text Book of Human Anatomy. Toldt's Atlas. Topographical Anatomy: Treve's Surgical and Applied Anatomy, Davis' Applied Anatomy. Histology: Stohr-Lewis Text Book of Histology, Bohm-Davidoff-Huber Text Book of Histology. Embryology: Bailey and Miller Text Book of Embryology, McMurrich's Embryology (4th edition). Anatomy of the Nervous System: Villiger's Brain and Spinal Cord.

COURSES.

- I. *Systematic Course in the Anatomy of the Extremities.* Course given in the mornings of the first year. Assistant Professor Strong and assistants. During this course the student makes a complete dissection of the arm and leg, together with the structures by which they are attached to the trunk. By dissecting the extremities in the same period the morphological analogies between the two are emphasized. During the same time the bony framework of the parts is studied.
- II *Systematic Course in Anatomy of the Abdomen and Pelvis.* Course given afternoons of the second year and mornings of the first year. During this course, in addition to the complete study of the abdominal viscera and genito-urinary organs, the student dissects the abdominal walls, the long muscles of the back and the spinal cord. During the same time the bony framework of the trunk and pelvis is studied.
- III *Systematic Course in the Anatomy of the Head, Neck and Thorax.* The arrangement of instruction is the same as for Course II. During the course the student dissects the thoracic viscera, the neck and the entire head with the exception of the brain: The study of the latter is provided for in Course VII. The student during this course is expected to familiarize himself with the anatomy of the bones of the skull.

IV. *Conferences in Anatomy.* Daily throughout the year. Assistant Professor Strong and assistants. These conferences are held in conjunction with Courses I, II and III. They consist in a review from day to day of the more important features of the dissections and the morphological significance of the different structures met with.

V. *Regional and Topographical Anatomy.* Eight weeks, forenoons. Dr. Strong, Mr. Magee and assistants.

This course is a continuation of Courses I, II and III. It is designed to cover those features in anatomy that have direct application to the practice of medicine and surgery. It embraces bony landmarks, the surface outlines of organs and the location of various nerves and arteries; the distribution of lymphatic vessels and glands; the special anatomy of joints; the character of synovial membranes, sheaths and bursæ; fascial compartments; the position and relation of the abdominal and thoracic viscera with regard to diagnostic and operative procedures; and attention is also given to special points in the anatomy of the head and cerebral localization. The instruction consists in laboratory work, demonstrations and quizzes, large use being made of frozen sections and special dissections. During this course each student prepares a set of about 50 tracings made from frozen sections, showing the outline and relations of the principal structures of the body.

VI. *Embryology, Histogenesis, General Histology, and Organology.* Afternoons daily until April. Professor Curtis and assistants.

This course consists of lectures, recitations and laboratory work. Each portion of the work, as taken up from day to day, is introduced by a general discussion, illustrated by blackboard drawings, and as far as possible by demonstrations of microscopic sections. Conferences and

recitations are held at the end of the laboratory period. It is the aim throughout the course to interpret the adult structure of elementary tissues and organs through their development and histogenesis.

The following general plan is followed:

a. *General Embryology, General Histology and Histogenesis, and Structure of the Elementary Tissues.*

The course begins with the study of the cell, cell division and maturation and fertilization of the sex-cells. This is followed by a consideration of segmentation and the formation of the germ layers, and the development is traced to the anlagen of the various tissues and organs, emphasis being given to their derivation from the several germ layers. The course concludes with a consideration of histogenesis and structure of the elementary tissues.

b. *Organology.* During this period are considered the various organs exclusive of the central nervous system and the organs of the special senses. The study of the adult structures of each organ is preceded by a consideration of its development and histogenesis.

VII. *Gross and Minute Anatomy of the Central Nervous System and Organs of Special Senses.* Afternoons daily from the first of April. Professor Curtis and assistants. It concludes a consideration of the development of the nervous system and sense organs, illustrated by charts, models and demonstrations of serial sections; a study of the finer anatomy of the organs of special senses, followed by a complete dissection of the human brain and a study of prepared sections, both macroscopic and microscopic, of the brain, brain stem and spinal cord.

GENITO-URINARY SURGERY.

Professor: DR. BROMBERG.

The professor in this course of instruction will go into

every detail calculated to lay a thorough foundation for this important subject. To this end the uses of the endoscope, cystoscope and other diagnostic instruments will be shown upon living subjects; and every variety of clinics, exhibiting the various forms of bladder and kidney diseases will be presented for inspection, diagnosis and treatment by the student.

Ample opportunity will be given to familiarize each student with the use of the cystoscope by demonstration upon the phantom bladder, also affording opportunity and practice in ureteral catheterization.

THERAPEUTICS.

Professor: DR. GLASGOW.

Therapeutics will be given in the second year. The course embraces general therapeutics, modes of administering drugs, the physiological action and therapeutic uses of individual drugs and their application to the treatment of diseases.

Other remedial agencies receive consideration during the course.

DISEASES OF CHILDREN.

Professor: DR. WILSON.

Assistants: DR. COWAN, DR. PERRY.

Instruction in the diseases of infancy and childhood is given in the third and fourth years.

THIRD YEAR.

Lectures and quizzes on the infectious diseases most common among children—measles, whooping cough, diphtheria, etc.

Clinics: One hour a week for half the year. Dr. Wilson.

FOURTH YEAR.

Senior students receive instruction on the special physiological peculiarities of infants, their nutritional demands and diseases of the new born. Then is taken up in detail the problems of infant feeding, the digestive diseases of infancy, and such disturbances in nutrition as rickets, marasmus, etc. Two hours a week for half the year. Dr. Wilson. A special feature of the fourth

year work is practical instruction in intubation on the cadaver.

Clinics: One hour a week for half the year. Dr. Wilson.

Fourth-year students also have clinical instruction in the dispensary and wards by Dr. Cowan and the instructors associated with the Department of Medicine.

PREVENTIVE MEDICINE AND HYGIENE.

Professor: DR. HIBBETT.

A thorough course of lectures on hygiene and sanitary science is delivered to the Senior class. The course is illustrated by diagrams and drawings.

MEDICAL JURISPRUDENCE.

Assistant Professor: DR. DABNEY.

Forensic medicine is taught by a course of lectures and recitations to the Senior class.

VENEREAL DISEASES.

Lecturer: DR. ANDERSON.

A complete and thorough course in venereal diseases will be given to the third-year class, comprising one lecture and a clinic each week.

In addition to this, the third and fourth-year classes are divided into small sections, and given instruction in the outdoor department of the Vanderbilt Hospital.

ANAESTHETICS.

Instructors: DR. MARR, DR. REYNOLDS.

A full course of instruction in the nature and use of anæsthetics and practice in administering them will be given to each student in the fourth-year class.

MATERIA MEDICA AND PHARMACY.

Instructor: DR. H. E. FRASER.

The course of instruction in this department will consist of a thorough course of lectures combined with class recitations, covering all of the medicines and preparations which are recognized by the U. S. Pharmacopœia

and National Formulary as well as those of value found in the leading dispensaries.

Combined with the course in *Materia Medica* will be given a comprehensive course in Pharmacognosy, and the student will have an opportunity to familiarize himself with the physical and chemical properties of the drugs which he studies, as well as their medicinal properties.

The newer remedies that have been proven of value and recognized by the medical profession, though they are not discussed in the pharmacopœia, will be taught, so that the medical student may learn to use drugs of value without the aid of the oft-misleading literature of aggressive and unscrupulous drug manufacturers.

The course of study in Pharmacy will be a combined lecture and laboratory course, and will include thorough instruction in prescription writing, incompatibles, and proper methods for preparing and combining medicines.

EXPERIMENTAL MEDICINE.

Instructors: DR. MANIER, DR. DUNKLIN, DR. AYCOCK.

The department of Experimental Medicine has been established in order to facilitate the application of scientific discoveries to practical medicine, and to co-ordinate the work of the other scientific and clinical departments.

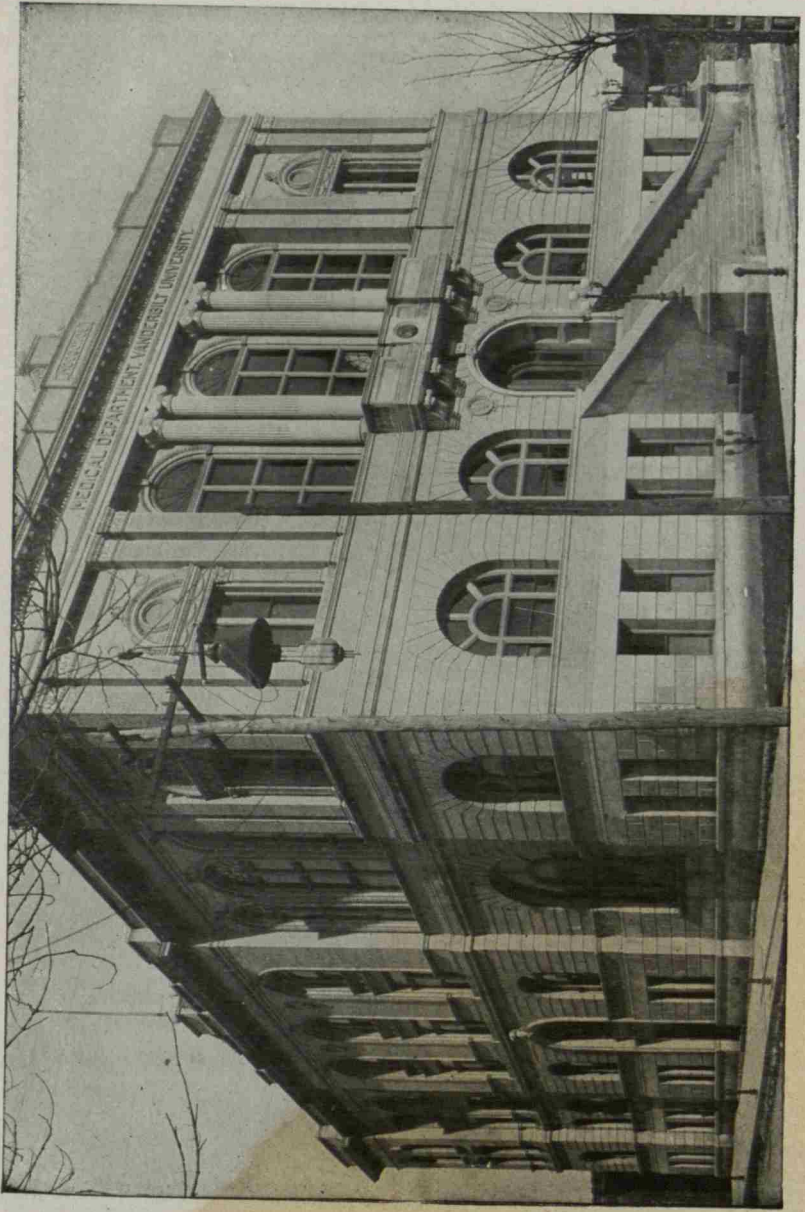
Opportunities for research will be afforded to volunteer workers who have had the required training, and who can give sufficient time. A limited number of students who have the training necessary for advanced work will be permitted to study special problems in this department. The selection of such students will depend upon their fitness for this work.

CLINICAL MICROSCOPY.

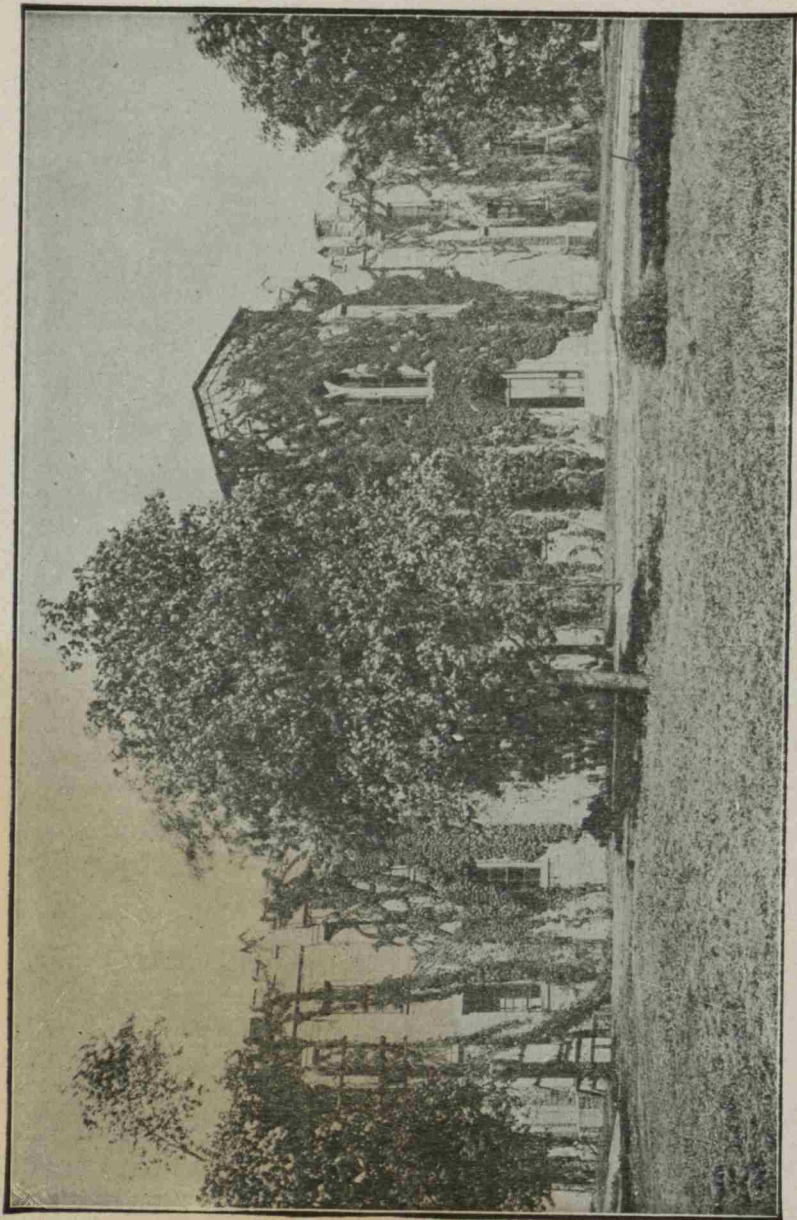
Instructor: DR. MAXWELL.

Junior year.

First term. The course consists of two recitations each week and thorough laboratory training in the chemical, microscopical, and bacteriological examinations of blood, urine, feces, sputum, gastric contents, exudates, secretions, etc.



VANDERBILT UNIVERSITY HOSPITAL AND CLINIC



CENTRAL HALL—SOUTH CAMPUS

Senior year.

Recitations two hours each week for first term. The laboratory work will be entirely practical. The students will be required to make complete laboratory examinations on patients in out-patient department. The diagnostic value of the tests will be emphasized.

FIRST YEAR. 1916-17.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May
8:15 9:15 10:15 11:15 12:15	ANATOMY GROSS.					Organic and Physiologica Chemistry.		
1:30 2:30 3:30 4:30 5:00	MICROSCOPIC ANATOMY					BACTERIOLOGY and HYGIENE		

SECOND YEAR. 1916-17

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
8:15 9:15 10:15 11:15 12:15	PHYSIOLOGY			PATHOLOGY			Therapeutics Materia Medica Pharmacy.	
1:30 2:30 3:30 4:30 5:00	TOPOGRAPHIC And APPLIED ANATOMY			PHARMACOLOGY		Therapeu- tics. Surgical Technique Physical Diagnosis	CLINICAL MICROSCOPY.	

**SCHEDULE OF LECTURES, CLINICAL LABORATORY AND CLASS WORK—THIRD YEAR
1915-1916.**

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:15	G Clinical Microscopy Surgical Anatomy*	G Clinical Microscopy Surgical Anatomy*	G Venereal Diseases Gynecology*	G Venereal Diseases Gynecology*	G Orthopedics Ear, Nose and Throat*	G Orthopedics Ear, Nose and Throat*
9:15	G Medicine	G Nervous and Mental Dis.	G Medicine	G Nervous and Mental Dis.	G Medicine	G Minor Surg. Obstetrics
10:15	E Physical Diagnosis	G Principles of Surgery	E Physical Diagnosis	G Principles of Surgery	G Practical Therapeutics Obstetrics*	Clinic Med. Vand. H. sp. ½ Class Laboratory Clinical Microscopy ½ Class
11:30 to 1 p.m.	Clinic Med. City Hosp. ½ Class Laboratory Clinical Microscopy ½ Class	Clinic Med. City Hosp. ½ Class Laboratory Clinical Microscopy ½ Class	Clinic Med. City Hosp. ½ Class Laboratory Clinical Microscopy ½ Class	Clinic Med. City Hosp. ½ Class Laboratory Clinical Microscopy ½ Class	Clinic Neuro- logy and Med. Vand. Hosp. ½ Class Laboratory Clinical Microscopy ½ Class	
CLINICAL PROGRAM—CITY HOSPITAL						
2 to 4 p.m. ½ Class	Eye, Ear Nose and Throat	Gynecology	Genito- Urinary Venereal	Surgery	Surgery	

1-8 Class Out-Patient Department Medicine—City Hospital.

1-8 Class Out-Patient Department Surgery—G U and Gynecology—City Hospital.

1-8 Class Bed-Side Work at City Hospital.

1-8 Class Bedside Work at City Hospital.

*SECOND TERM.

Clinical Conference every Friday at 3 P.M. in Surgical Amphitheatre.

SCHEDULE OF LECTURES—FOURTH YEAR, 1915-1916.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:15	N Gynecology Children*	N Gynecology Children*	N Eye Obstetrics*	N Eye Obstetrics*	N G. U. Surgery* (McGannon)	N G. U. Surgery* (McGannon)
9:15	N Obstetrics Surgery* (Barr)	N Obstetrics Surgery* (Barr)	N Surgery (Haggard) Electro- Therapeutics*	N Clinical Microscopy Medical Jurisprudence*	N Clinical Microscopy Medical Jurisprudence*	N Surgery (Haggard) Proctology*
10:15	N Medicine	N Surgery (Eve) Hygiene*	N Surgery (Eve) Hygiene*	N Dermatology	Clinic Genito-Urinary or Rectal Dis. or Orthop. Vanderbilt Hospital (whole class)	Clinic Children ½ Class City Hosp. Clinic Nervous & Mental dis. ½ Class Van. Hosp.
Vanderbilt Hospital, 11:30-1 P. M.	Med. Clinic ½ Class Surg. Clinic ½ Class	Med. Clinic ½ Class Eye, Ear, Nose & Thr. ½ Class	Med. Clinic ½ Class Gynecological Clinic ½ Class	Med. Clinic ½ Class Surgical Clinic ½ Class	N Medicine	N Medicine

*SECOND TERM.

SENIOR CLASS CLINICAL PROGRAM, VANDERBILT HOSPITAL, 1915-1916

Class is Divided into Eight Sections. 2 to 4 P. M.

- Section (1)—Surgical and Gynecological Laboratory.
- Section (2)—Laboratory of Clinical Microscopy.
- Section (3)—Laboratory of Experimental Surgery.
- Section (4) Out-Patient Department—Medicine.
- Section (5) { ½ Section Out-Patient Department—G. U.
½ Section Out-Patient Department—Gynecology.
- Section (6) { ½ Section Out-Patient Department—Surgery.
½ Section Out-Patient Department—Eye, Ear, Nose and Throat.
- Section (7) { ½ Section—Bedside Work—Medicine.
½ Section—Bedside Work—Surgery and Gynecology.
- Section (8)—½ Section act as assistant to operator in Amphitheatre on the following branches:

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Eye, Ear, Nose and Throat	Surgery and Gynecology.	Obstetrics.	Rectal diseases and Orthopedics.	Skin, X-Ray and Electro-Therapeutic

½ Section—Room 4—Out-Patient Department on Rectal Diseases—Children—Skin—Orthopedics and Laboratory of Experimental Medicine.
 A Section will visit Central Hospital for the Insane in rotation every Saturday.
 Obstetrical Cases will be assigned to each student.
 Autopsies 4 P. M.
 Clinical Conference every Friday at 3 P. M., Surgical Amphitheatre.

DIRECTION.

On arriving in the city the student can best reach the South Campus by taking a street car at the depot and riding to the Transfer Station, there transferring either to a car marked "Fourth Avenue," "Nolensville," or "Fairfield," getting off at Elm Street, and walking two squares to the left; or by taking a "Wharf Avenue" car and getting off at Middleton Avenue, and walking one square to the right. On arriving in the city, students should go at once to the South Campus, where they will be received and directed to suitable boarding places.

COMMUNICATIONS.

All communications regarding the Medical Department should be addressed to

DR. L. E. BURCH, *Dean*.
Eve Bldg., Church St., Nashville, Tenn.

HONORS.

Founder's Medal—ALLAN E. VANNESS, Tennessee.

Scholarship in Third Year—J. HENRY LITTERER, Tennessee.

Scholarship in Second Year—BEVERLY DOUGLAS, Tennessee.

Scholarship in First Year—SAM P. BAILEY, Tennessee.

Beauchamp Scholarship—LESLIE MCK. SMITH, Texas.

HOSPITAL APPOINTMENTS, SENIOR CLASS, 1916.

Abercrombie, E.	Knoxville General Hospital	Knoxville, Tenn.
Askew, W. L.	St. Louis City Hospital	St. Louis, Mo.
Barnes, M. W.	St. Louis City Hospital	St. Louis, Mo.
Baxter, T. D.	Vanderbilt Hospital	Nashville, Tenn.
Bondurant, A. J.	St. Margaret's Hospital	Kansas City, Kans.
Bryan, A. L.	U. S. Marine Hospital	Ellis Island, N. Y.
Bunch, R. C.	Nashville City Hospital	Nashville, Tenn.
Christian, T. B.	St. Thomas Hospital	Nashville, Tenn.
Clinkscales, G. B.	Immigrant Hospital	Ellis Island, N. Y.
Chandler, O. B.	Vassar Brothers Hospital	Poughkeepsie, N. Y.
Coffey, G. C.	Louisiana State Charity Hos.	Shreveport, La.
Compere, T. H.	Texas Baptist Mem. Sanit.	Dallas, Tex.
Cornwell, D. L.	Vanderbilt Hospital	Nashville, Tenn.
Davin, C. C.	Nashville City Hospital	Nashville, Tenn.
Daugherty, J. A.	San Francisco Hospital	San Francisco, Cal.

Donnald, E. C.	Panama Canal Zone Hospital	
Donnell, H.	Shreveport Charity Hospital	Shreveport, La.
Donnelly, A. D.	Nashville City Hospital	Nashville, Tenn.
Douglass, R. A.	Nashville City Hospital	Nashville, Tenn.
Edrington, N. K.	Miss. State Charity Hospital	Vicksburg, Miss.
Ford, J. A.	Panama Canal Zone Hospital	
Foshee, J. C.	Butterworth Hospital	Grand Rapids, Mich.
Foster, W. B.	Panama Canal Zone Hospital	
Gill, E. G.	Allegheny General Hospital	Pittsburgh, Penn.
Goff, J. F.	Throll Hospital	Lexington, Tenn.
Green, S. S.	Erlanger Hospital	Chattanooga, Tenn.
Hammer, L. H.	Erlanger Hospital	Chattanooga, Tenn.
Hinton, S. B.	Nashville City Hospital	Nashville, Tenn.
Husband, W. G.	St. Louis City Hospital	St. Louis, Mo.
Johnson, J. A.	St. Thomas Hospital	Nashville, Tenn.
Leake, W. H.	Presbyterian Hospital	New York, N. Y.
Lewis, M. S.	Kingston Ave. Hospital	New York, N. Y.
Leyda, J. H.	St. Lukes Hospital	Denver, Colo.
Melton, E. C.	Louisiana State Charity Hos.	Shreveport, La.
Moore, T. D.	Willard Parker Hospital	New York, N. Y.
McCaleb, W. L.	Central Hospital	Nashville, Tenn.
Nunn, J. A.	Vanderbilt Hospital	Nashville, Tenn.
Odom, C. C.	Central Hospital	Nashville, Tenn.
Ottow, A. F. W.	Erie County Hospital	Buffalo, N. Y.
Peavy, H. J.	Toledo City Hospital	Toledo, Ohio.
Phillips, H. L.	Baptist Hospital	Houston, Texas.
Podesta, A. J.	U. S. Marine Hospital	New Orleans, La.
Powers, J. E.	Harper Hospital	Detroit, Mich.
Price, H. L.	Lucas County Hospital	Toledo, Ohio.
Ray, C. W.	Temple Sanitarium	Temple, Texas.
Reams, G. H.	St. Vincent Hospital	Toledo, Ohio.
Robinson, L. B.	St. Margaret's Hospital	Kansas City, Kans.
Sanford, J. R.	St. Margaret's Hospital	Kansas City, Kans.
Scheff, A. L.	St. Louis City Hospital	St. Louis, Mo.
Seale, E. C.	Tenn. Industrial Sch. Hosp.	Nashville, Tenn.
Sharp, A. D.	St. Margaret's Hospital	Hammond, Ind.
Sisk, I. R.	Madison General Hospital	Madison, Wis.
Smisson, R. C.	Natchez City Hospital	Natchez, Miss.
Thaxton, G. B.	St. John's Hospital	New York City, N. Y.
Torbett, B. M.	St. Louis City Hospital	St. Louis, Mo.
Walker, G. I.	Cotton Belt R. R. Hospital	Texarkana, Ark.
Weldon, W. A.	St. Louis City Hospital	St. Louis, Mo.
West, A. L.	Toledo City Hospital	Toledo, Ohio.
White, H. D.	Woman's Hospital	Nashville, Tenn.
White, J. J.	St. Thomas Hospital	Nashville, Tenn.
Wyche, G. F.	Tenn. State Prison Hospital	Nashville, Tenn.

MATRICULANTS, MEDICAL DEPARTMENT, 1915-16

FIRST YEAR CLASS.

Name	Home Address	Name	Home Address
Alexander, Harvey J.	Kentucky	MacMillan, Charles W.	Tennessee
Bailey, Sam P.	Tennessee	McMillion, John D.	Tennessee
Barbee, Frank H.	Tennessee	McNeil, James P.	Tennessee
Bates, Walter L.	South Carolina	Milam, Ernest B.	Florida
Brandau, George M.	Tennessee	Reyes, Santurnino G.	Nicaragua
Carpenter, G. K.	Tennessee	Robinson, Guilford A.	Arkansas
Carpenter, Alpha R.	Texas	Rosenthal, Sanford M.	Tennessee
Cox, H. M.	Tennessee	Thomas, Daniel R.	Colorado
Cronstine, Monroe	Tennessee	Wikle, Herbert T.	Tennessee
Duncan, Charles G.	Texas	Walters, Earl C.	Missouri
England, Kay	New Mexico	White, Daphney E.	Arkansas
Johnson, John F.	Tennessee		

SECOND YEAR CLASS, 1915-16.

Bilbro, William C.	Tennessee	McClure, Christopher	Alabama
Burnett, James T.	Tennessee	Morgan, Hugh J.	Tennessee
Caldwell, Turner A.	Tennessee	Nelson, Robert G.	Florida
Dailey, Thomas W.	Oklahoma	Prothro, H. Melton	Louisiana
Davidson, Chester L.	Tennessee	Robertson, Brinson O.	Alabama
Davis, Murrey B.	Tennessee	Sanford, William V.	Tennessee
Douglas, Beverly	Tennessee	Schumpert, Noble B.	Louisiana
Dudenbostel, George E.	Illinois	Spain, Will Cook	Tennessee
Edwards, Thomas W.	Texas	Spidell, Roy E.	Missouri
Fyke, Will F.	Tennessee	White, Rex H.	Texas
Galloway, Joseph F.	Alabama		
Hamilton, Charles M.	Alabama		
Jones, Earl	Louisiana		
Kemmer, Thomas R.	Tennessee		
Kilgore, Allen M.	Oklahoma		
Lowery, Blackburn W.	Florida		

Irregular Students of Second Year Class

Franklin, John	Tennessee
Long, Gross R.	Tennessee
Shofner, Nathaniel S.	Tennessee
Sikes, Amie T.	Tennessee

THIRD YEAR CLASS, 1915-16.

Anderson, Walter H.	Alabama	Henderson, Charles W.	Florida
Baker, Clark E.	Illinois	Henderson, Robert P. Jr.	Florida
Bartling, Clarence W.	Missouri	Herbert, Rogers N.	Tennessee
Bell, Warren W.	Oklahoma	Henry, Oliver P.	Kentucky
Binkley, John F.	Tennessee	Higginson, Williamson	Tennessee
Boone, James L.	Florida	Holmes, Roy J.	Georgia
Brown, Eldridge T.	Alabama	Hudson, M. F.	Tennessee
Brown, Emmet E.	Tennessee	Hutchings, Edgar P.	Texas
Bryan, Nelson A.	Tennessee	James, David H.	Louisiana
Bryant, K. A.	Tennessee	Kauffold, Henry W.	Illinois
Burchfield, George W.	Tennessee	Kazar, Jay J.	Illinois
Burrus, Swan	Tennessee	King, Norman	Texas
Cohn, Maurice H.	Texas	Lewis, Preston O.	Alabama
Coston, Fred C.	Arkansas	Litterer, James H.	Tennessee
Davis, Charles H.	Texas	Lupo, Carl W.	Georgia
Deaver, Clyde W.	Alabama	McCullough, Walter A.	Mississippi
Erlich, Mortimer A.	Georgia	McGill, Samuel D.	Arkansas
Ellis, M. I.	Florida	McMeen, Clifton G.	Tennessee
Fountain, James A.	Georgia	McMurrey, Carl	Tennessee
Gibbs, Dozier H.	Alabama	McNeil, Clyde L.	Arkansas
Gibson, Lee K.	Missouri	Maxwell, Ralph E.	California
Greer, J. J.	Tennessee	Mellen, Robert H.	Washington
Gregory, Lawrence R.	Alabama	Mills, Alvin L.	Florida
Hale, Claude E.	Illinois	Myers, Claude D.	Texas
Hall, Burtis O.	Alabama	Pate, Earl E.	Alabama
Harmon, Walter S.	Louisiana	Phelps, Bruce M.	New York

Name	Home Address
Pilkinton, Lloyd	Tennessee
Polk, Joysh R.	Alabama
Reeves, Edison W.	Tennessee
Reinberger, James R.	Arkansas
Roan, Omer M.	Alabama
Robertson, Charles A.	Kentucky
Rowe, John F. Jr.	Texas
Searight, Matthew W.	Alabama
Schoonmaker, Guy D.	Iowa
Scott, Ruby T.	Tennessee
Sharp, T. Hilliard	Tennessee
Simpson, Roy L.	Alabama
Siniard, Emmitt C.	Alabama
Smith, Leslie M.	Texas
Smith, Clark X.	Tennessee
Swain, Richard D.	Illinois
Stirling, William C.	Texas

Name	Home Address
Trenztsch, Philip J.	Wisconsin
Tubb, Claude E.	Tennessee
Wampler, George M.	Alabama
Wilkinson, Lonnie O.	Tennessee
White, Jessie B.	Tennessee
Wood, Norman L.	Texas
Wood, Sterling C.	Texas

Irregular Students of Third Year Class

Camp, Will	Tennessee
Friberg, Ward	Tennessee
Gill, William Davis	Texas
Hasty, Fred E.	Alabama
Naive, J. B.	Tennessee
Reyer, George W.	Tennessee
Simpson, John W.	Alabama

SENIOR CLASS, 1915-16.

Abercrombia, Eugene	South Carolina
Askew, Wesley L.	Texas
Barnes, Miles W.	Tennessee
Baxter, Thomas D.	Texas
Blassingame, Charles D.	Mississippi
Bondurant, Alpheus J.	Missouri
Bryan, Alanson L.	Minnesota
Bunch, Ray C.	Kentucky
Byrd, Benjamin F.	Mississippi
Carr, Gordon B.	Kentucky
Christian, Thomas B.	Georgia
Christian, Paul H.	Georgia
Chinkscales, Grady S.	South Carolina
Chandler, Orville B.	Tennessee
Chapman, Solomon J.	Tennessee
Coffey, George C.	Mississippi
Compere, Thomas H.	Texas
Cornwell, Dallis L.	Tennessee
Davin, Charles C.	Wisconsin
Daugherty, John L.	Louisiana
DeBeck, Calvin M.	Illinois
Donnald, Edwin C.	South Carolina
Donnell, Herbert	Tennessee
Donnelly, Arthur D.	Kentucky
Douglass, Roy A.	Tennessee
Dyer, Lloyd E.	Tennessee
Ederington, Nicholas K.	Louisiana
Ezell, Coriolanus V.	Texas
Fly, James C.	Tennessee
Ford, James A.	Florida
Foshee, John C.	Alabama
Foster, William B., Jr.	Alabama
Gill, Elbyrne G.	Virginia
Goff, Jesse F.	Tennessee
Goddard, William B.	Kentucky
Goldberg, Harry H.	Tennessee
Greene, Sumrow S.	Texas
Gregory, David A.	Tennessee
Hall, Jesse L.	Texas
Hamilton, James H.	Tennessee
Hammer, Lewis H.	Alabama
Heffernan, John F.	Ohio
Henderson, Walter F.	Louisiana
Hinton, Stirling B.	Kentucky
Holmes, Albert E.	Florida
Husband, William G.	Oklahoma

Hyder, Romulus B.	Tennessee
Johnson, Julius A.	Tennessee
Jones, Andrew B.	Tennessee
Kimbrough, James C.	Tennessee
Kirkpatrick, Jere W.	Tennessee
Leake, William H.	Florida
Lewis, Milton S.	Tennessee
Leyda, James H.	Colorado
Melton, Edward C.	Mississippi
Moore, Thomas D. Jr.	Kentucky
McCaleb, Walter L.	Tennessee
Norwood, John K.	Florida
Nunn, John A.	Tennessee
Odum, Cleve C.	Tennessee
Oglesby, Knowles G.	Florida
Ottow, Albert F. W.	Wisconsin
Palmer, Alonzo T.	Missouri
Parker, John H.	Michigan
Peavey, Henry J.	Georgia
Phillips, Herbert L.	Alabama
Podesta, Augustine J.	Mississippi
Pope, Paul G.	Mississippi
Powers, John E.	Tennessee
Price, Henry L.	Tennessee
Ray, Charles W.	Texas
Reams, Glenn H.	Tennessee
Robinson, Leslie B.	Kentucky
Sanford, James R.	Tennessee
Scheff, Abe L.	Mississippi
Seale, Enoch C.	Tennessee
Sharp, Ara D.	Illinois
Sisk, Ira R.	Georgia
Smisson, Roy C.	Georgia
Thaxton, Gerald B.	Texas
*Torbett, Bert M.	Texas
VanNess, Allan E.	Tennessee
Walker, Granville I.	Tennessee
Weldon, William A.	Kentucky
West, Andrew L.	Georgia
White, Hugh D.	Texas
White, Joel J.	Tennessee
Winn, John H.	Tennessee
Wright, Thurman G.	North Carolina
Wyche, George G.	Texas

*Deceased.