

OFFICIAL PUBLICATION
OF THE
UNIVERSITY OF MARYLAND
(Founded 1807)

School of Pharmacy
(THE MARYLAND COLLEGE OF PHARMACY 1841 to 1904.)



Eighty-Third
Annual Announcement
1926-1927

ISSUED BY THE
SCHOOL OF PHARMACY
Northeast Corner Greene and Lombard Streets
Baltimore, Maryland

SCHOOL OF PHARMACY

Calendar 1926-27

1926

Fall examinations to remove con- ditions.	September 21.....	{ Chemistry, 9 A.M. Pharmacy, 2 P.M.
	September 22.....	{ Practical Chemistry, 9 A.M. Practical Pharmacy, 2 P.M.
	September 23.....	{ Botany, Materia Medica and Vegetable Histology, 9 A.M. Pharmacognosy, Toxicology and Posology, 2 P.M.
	September 24.....	{ Mathematics, 9 A.M. Physiology and Hygiene, Jurisprudence, 2 P.M.
	September 25.....	{ Language, 9 A.M. English, 9 A.M. Business Administration, 2 P.M.

Classes will be held *September 7-11, inclusive*, to remove conditions due to *insufficient attendance*.

September 27—Instruction begins—9 A.M.

October 4—Last day of registration.

November 11—Holiday—Armistice Day.

November 24—Thanksgiving Holidays (begin after last period).

November 29—Instruction resumed—9 A.M.

December 23—Christmas recess (begins after last period).

1927

January 3—Instruction resumed 9 A.M.

January 17—Registration begins for second semester.

January 31—Instruction begins for second semester.

February 5—Last day of registration for second semester.

February 22—Holiday (Washington's Birthday).

April 14—Easter recess (begins after last period).

April 19—Instruction resumed 9 A.M.

June 4—Commencement Day.

University Endowment Fund

This Fund is in the hands of a Board of Trustees incorporated under the Laws of the State and consisting of nine alumni of the University, its legal title being "The Trustees of the Endowment Fund of the University of Maryland." The Board is independent and self-perpetuating and its powers are limited to the expenditures of the interest of the Fund only. The following are its present members: Daniel Baker, Jr., Esq., President; John B. Thomas, Ph.G.; Harry Adler, M.D.; Charles Markell, LL.B.; J. M. H. Rowland, M.D.; Arthur M. Shipley, M.D.; Stuart S. Janney, LL.B., and Horace M. Davis, D.D.S., Treasurer. Contributions to the University or that of any of the departments should be sent to the Treasurer.

Board of Regents

of the

University of Maryland

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Eccleston, Baltimore County, Maryland.

ROBERT CRAIN. Term expires 1933.
Mount Victoria, Charles County, Maryland.

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JOHN E. RAINE. Term expires 1930.
413 E. Baltimore St., Baltimore, Maryland.

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Princess Anne, Somerset County, Maryland.

DR. W. W. SKINNER, Secretary. Term expires 1927.
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*Assistant to the President, Col-
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*Associate Dean of the College
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PHARMACY—

JOHN C. KRANTZ, JR., Ph.C., Ph.D., M.S., Professor of Pharmacy.
J. CARLTON WOLF, B.Sc., Ph.D., Professor of Dispensing.
MARVIN J. ANDREWS, Ph.C., Assistant Professor of Dispensing.
WM. L. REINDOLLAR, Ph.G., Instructor in Pharmacy and Lecturer in
Urinalysis.
EDWIN A. SCHMIDT, Ph.G., Instructor in Dispensing.

MATERIA MEDICA—

DAVID M. R. CULBRETH, A.M., Ph.G., M.D., Professor Emeritus of
Botany and Materia Medica.
CHAS. C. PLITT, Ph.G., Sc.D., Professor of Botany and Materia
Medica.
B. OLIVE COLE, Ph.D., LL.B., Associate Professor of Botany and
Materia Medica, and Lecturer in Pharmaceutical Law.
FRANK J. SLAMA, Ph.C., Instructor in Botany and Materia Medica.

CHEMISTRY—

NEIL E. GORDON, Ph.D., Professor of Physical Chemistry.
A. G. DUMEZ, Ph.D., Professor of Organic Chemistry.
H. E. WICH, Ph.D., Associate Professor of Chemistry.
E. H. VANDEN BOSCHE, M.S., Instructor in Chemistry.
JOHN CONRAD BAUER, Ph.G., Instructor in Chemistry.

PHYSIOLOGY AND HYGIENE and BACTERIOLOGY—

ROBERT L. MITCHELL, Ph.D., M.D., Professor of Physiology and
Hygiene, and Bacteriology.
H. J. MALDEIS, M.D., Associate Professor of Bacteriology.

ZOOLOGY—

GUY P. THOMPSON, B.S., Instructor in Zoology.

GENERAL EDUCATIONAL SUBJECTS—

W. M. CUTCHIN, Ph.D., LL.B., Professor of Business Administra-
tion.
W. G. FRIEDRICH, B.A., M.A., Assistant Professor of Modern Lan-
guages.
J. H. SCHAD, M.A., Instructor in Mathematics.
E. E. ERICSON, M.A., Instructor in English.
C. G. EICHLIN, M.S., Professor of Physics.
R. W. AUSTERMANN, Ph.B., Instructor in Physics and Mathematics.

GEO. S. SMARDON, Comptroller.
W. M. HILLEGEIST, Registrar.
MRS. RUTH LEE BRISCOE, Librarian.

The University of Maryland

For more than a century the University of Maryland has played a conspicuous and forceful part in the professional education and training of a nation, and particularly of Maryland and the Southern States.

Control of the University of Maryland is vested in a board of nine Regents, appointed by the Governor and confirmed by the Senate for terms of nine years each. The general administration of the University is vested in the President. The University Senate is an advisory body, composed of the President, the Assistants to the President, the Director of the Extension Service, and the Deans. The University Senate acts upon all matters having relation to the University as a whole, or to co-operative work between the constituent groups. Each school has its own Faculty Council composed of the Dean and members of its faculty; each Faculty Council controls the internal affairs of the group it represents.

The University has the following educational organization:

- The College of Agriculture.
- The College of Engineering.
- The College of Arts and Sciences.
- The School of Medicine.
- The School of Law.
- The School of Dentistry.
- The School of Pharmacy.
- The College of Education.
- The College of Home Economics.
- The Graduate School.
- The Summer School.
- The Department of Military Science and Tactics.
- The Department of Physical Education and Recreation.

The Schools of Medicine, Law, Pharmacy and Dentistry are located in Baltimore, at Lombard and Greene Streets; the others in College Park.

THE SCHOOL OF PHARMACY.

This was organized in 1841, largely at the instance of members of the Faculty of Medicine, and, for a time, the lectures were delivered at the medical school. Later it became separated and continued an independent organization, as the Maryland College of Pharmacy, until it finally became a part of the University in 1904. With but one short intermission, previous to 1865, it has continuously exercised its functions as a teaching school of pharmacy.

POLICY AND DEGREES.

The chief purpose of this college has been to prepare its matriculants for the intelligent practice of dispensing pharmacy, without overlooking the fact that there exist other divisions of the professions. Upon completion of the first three years of the course the diploma of Graduate in Pharmacy (Ph.G.) is awarded, which admits the holder to the board examinations in the various states for registration as a pharmacist.

The degree of Bachelor of Science in Pharmacy (B.S. in Phar.) will be given upon completion of the work prescribed for the entire course of four years.

Students matriculated prior to October 6, 1924, are eligible to receive the diploma of Graduate in Pharmacy (Ph.G.) upon the completion of the first two years, and the diploma of Pharmaceutical Chemist (Ph.C.) upon completion of the third year of the course as outlined in the catalogue of 1924-1925. This privilege will expire on October 1, 1927, for the Ph.G. diploma and on October 1, 1928, for the Ph.C. diploma.

COMBINED CURRICULUM IN PHARMACY AND MEDICINE.

A combined curriculum has been arranged with the Medical School of the University of Maryland by which students may obtain the degrees of Bachelor of Science in Pharmacy and Doctor of Medicine in seven years. Students who successfully complete the first three years of the course in Pharmacy, and in addition four semester hours in Zoology, are eligible for admission into the Medical School of the University of Maryland, and upon the successful completion of the first two years of the medical course will be awarded the degree of Bachelor of Science in Pharmacy by the School of Pharmacy.

This privilege will be open only to students who maintain a uniformly good scholastic record during the first two years of the course in pharmacy, and those who wish to avail themselves of it must so advise the School of Pharmacy before entering upon the work of the third year in order that provision may be made for the required instruction in Zoology. An extra charge will be made for this instruction.

RECOGNITION.

This school holds membership in the American Association of Colleges of Pharmacy. The objects of the Association is to promote the interests of pharmaceutical education and all institutions holding membership must maintain certain minimum requirements for entrance and graduation. Through the influence of this Association, uniform and higher standards of education have been adopted from time to time, and the fact that several states by law or by Board ruling recognize the standards of the Association is evidence of its influence.

This school is registered in the New York Department of Education and its diploma is recognized in all states.

REQUIREMENTS FOR MATRICULATION.

The applicant must have completed a four year standard high school course or its equivalent. A minimum age of seventeen years is demanded except when the candidate is a graduate of an accredited high school or of an institution of equal grade.

Admission to the course in pharmacy is by certificate issued by the Registrar of the University of Maryland, Lombard and Greene Streets, Baltimore, Md. The certificate is issued on the basis of credentials, or by examination, or by both. Evaluation of credentials can be made only by the Registrar, and all applicants, whether their entrance qualifications

are clearly satisfactory as per the requirements for matriculation, outlined above, or not, must secure a certificate from the Registrar to be presented to the School of Pharmacy before they can be matriculated.

Applicants should secure an Application Blank for entrance from the Registrar of the University or from the office of the School of Pharmacy, and return it properly executed at the earliest possible date. Diplomas or certificates need not be sent. The Registrar will secure all credentials desired after the Application Blank has been received and the applicant will be notified of the result of the investigation.

Applicants whose credentials do not meet the requirements must pass a satisfactory examination in appropriate subjects given by a recognized College Entrance Examination Board, to make up the required number of units. A fee is charged for these examinations.

Credit will be given for pharmaceutical subjects to those students coming from schools of pharmacy holding membership in the American Association of Colleges of Pharmacy, provided they present a proper certificate of the satisfactory completion of such subjects and of honorable dismissal, and also meet the entrance requirements of this school. Credit for general educational subjects will be given to those students presenting evidence of having completed work of equal value.

SPECIAL STUDENTS.

An applicant who cannot furnish sufficient entrance credentials and does not care to make up the units in which deficient, may enter as a special student and pursue all the branches of the curriculum, but will not be eligible for graduation and will not receive a diploma. The School of Pharmacy reserves the right to decide whether or not the preliminary training of the applicant is sufficient.

REQUIREMENTS FOR GRADUATION.

1. The candidate must possess a good moral character.
2. He or she must have successfully completed the work specified in the first three years of the course if a candidate for the Graduate in Pharmacy (Ph.G.) diploma; or four years if a candidate for the degree of Bachelor of Science in Pharmacy (B.S. in Phar.); in each instance the last year to be taken in this school.

PRACTICAL EXPERIENCE.

The Pharmacy Law of Maryland requires four years of practical experience for full registration and two years of practical experience for registration as an assistant pharmacist. The time spent in a recognized college is credited towards the practical experience required to the extent of two years for full registration and one year in the case of registration as an assistant pharmacist.

As additional experience is required, prospective students are advised to secure employment, if possible, before entering the college.

CONDITIONS.

Each session extends over eight months and is divided into semesters. Examinations will be held at the end of the first semester in all branches, the results from which together with the reports from the laboratories, will become a part of the final record of the student in the particular class to which he belongs. At intervals written and oral reviews will be given and the results thereof will form part of the final rating. Final examinations will be held at the end of the second semester, and the student's standing in each subject will be determined by the average of all

the ratings obtained therein. The faculty will advise students, who for any reason, would not likely be able to complete the course, to withdraw from the school.

No student will be admitted to the examination in any branch in which he or she has not attended at least eighty-five per cent. of the classes therein. Further absences will not be excused.

Reports showing the standing of the students will be sent out at the end of the session. The passing grade is 75 per cent. From 50 to 74 per cent., inclusive, is a condition and less than 50 per cent. is a failure. The students who have conditions are eligible for one re-examination in each subject, without charge, but if not successful in this re-examination, must repeat the subject.

No student will be permitted to become a candidate for graduation in June, 1927, who has not successfully completed all of the subjects of the first year by September 27, 1926.

Students who have not obtained at least sixty per cent. of the required credits of the first year by September 27, 1926, will not be permitted to take any of the second year subjects.

TABLE OF FEES.

Matriculation fee (paid once only)	\$10.00
Yearly tuition fee for residents of Maryland	200.00
Yearly tuition fee for non-residents of Maryland	250.00
Laboratory fee, yearly, (no part returnable)	20.00
Graduation fee (returned in case of failure)	10.00

Students who are minors are considered to be resident students, if at the time of their registration their parents or guardians have been residents of this state for at least one year.

Adult students are considered to be resident students, if at the time of their first registration they have been residents of this state for at least one year.

The status of the residence of a student is determined at the time of his first registration in the University and may not thereafter be changed by him unless his parents or guardians move to and become legal residents of this state.

SPECIAL FEES.

Students who wish to take special subjects and not the full curriculum are expected to matriculate and make necessary arrangements as to charges.

Students who find it desirable or necessary to repeat a subject will be expected to pay the proportional charge.

A fee of Two (\$2.00) Dollars will be charged each student for examinations at other than scheduled periods.

In addition to the fees, there are other expenses, such as for books, which cost about \$60.00, for lenses, section cutters, metric weights and some special apparatus which cost about \$15.00.

MATRICULATION AND REGISTRATION.

The Matriculation Tickets must be procured from the office of the School of Pharmacy, and must be taken out before entering the classes. All students after matriculation are required to register at the office of the Registrar. The last date of matriculation is October 4th, 1926.

PAYMENTS.

Tuition for the first semester and laboratory fee shall be paid to the Comptroller on or before October 4th, 1926, and tuition for the second semester and graduation fee on or before February 5th, 1927.

Students who fail to pay the tuition and other fees required on or before the above-mentioned dates, for each semester, will be required to pay in addition the sum of Five (\$5.00) Dollars. If the total so required shall not be paid before twenty (20) days from the beginning of said semester, the student's name shall be stricken from the rolls.

EMPLOYMENT.

It is very desirable, on account of the large number of hours required for laboratory work, lectures and study, that students should come prepared to sustain themselves during their collegiate term, yet a number annually succeed in finding suitable employment in the city. The officials of the school stand ever ready to aid in securing positions for those students to whom employment is desirable.

THE CHARLES CASPARI, JR., SCHOLARSHIP.

To perpetuate the memory of Prof. Charles Caspari, Jr., late Dean of the School of Pharmacy, and at the same time be in accord with the modesty and lack of ostentation, and eagerness for service and helpfulness to others, that were strikingly characteristic of Professor Caspari, numerous friends and alumni have contributed funds to establish a scholarship by his name. It will be awarded to a member of the Third Year Class of this School on the basis of scholarly attainments and need of financial assistance, by the faculty of the school.

PHI DELTA CHI FRATERNITY SCHOLARSHIP.

Iota Chapter offers an annual scholarship of \$100.00 to apply to the tuition of the Third Year only, to a deserving student, who has finished the work of the First and Second Year in this school, of whatever sex or sect. The scholarship is awarded on the basis of a competitive examination, conducted by The Faculty of the School of Pharmacy and a Committee from this chapter of the Fraternity, during the month of May of each year.

PRIZES.

General.—A gold medal will be awarded at each annual commencement to the candidate for the diploma of Graduate in Pharmacy, whose department is creditable, and who has attained the highest general average, not below 90 per cent.

Certificates of Honor will be awarded to the three students having the highest general average, next to the winner of the general prize, provided this does not fall below 90 per cent.

Chemistry.—In honor of the late Dr. William Simon, for thirty years professor in the Maryland College of Pharmacy, now the School of Pharmacy, University of Maryland, a gold medal will be awarded to a candidate for the diploma of Graduate in Pharmacy for superior proficiency in the field of practical and analytical chemistry. This medal will be known as the Simon Prize, and the recipient must stand high in all branches and must have the endorsement of the whole faculty. In recommending a student for the prize the professor of chemistry will be guided in his judgment of the student's ability as much by observation and personal contact as by marks made in examination.

Second Year.—Honorable mention will be made of the first three students having the highest general average, provided this does not fall below 90 per cent.

COURSE IN PHARMACY.

First Year.

FIRST SEMESTER				SECOND SEMESTER			
	Lect.	Lab.	Credit		Lect.	Lab.	Credit
Pharmacy 1A	3	1		Pharmacy 1B	1		1
Zoology	2	6	4	Pharmacy 1C	1		1
Chemistry 1	2	6	4	Botany 1	2	3	3
Language (German or French)	4		4	Chemistry 1	2	6	4
Mathematics 1	3		3	Language (German or French)	4		4
English	3		3	Mathematics 2	3		3
				English	3		3
	14	15	19		16	9	19

Second Year.

Offered 1926-1927.

FIRST SEMESTER				SECOND SEMESTER			
	Lect.	Lab.	Credit		Lect.	Lab.	Credit
Pharmacy 2A	2	6	4	Pharmacy 2A	2	6	4
Physiology and Hygiene... 3			3	Quantitative Analysis..... 1	6		3
Chemistry 2	2	6	4	Chemistry 2	2	6	4
Materia Medica 2	2		2	Materia Medica 2	2		2
Pharmacognosy 3	1	3	2	Pharmacognosy 3	1	3	2
Physics	3	3	4	Physics	3	3	4
	13	13	19		11	24	19

Third Year.

Offered 1927-1928.

FIRST SEMESTER				SECOND SEMESTER			
	Lect.	Lab.	Credit		Lect.	Lab.	Credit
Pharmacy 3A	2	6	4	Pharmacy 3A	2	6	4
Dispensary Practice 3B... 2			3	Dispensary Practice 3B... .. 2			3
Pharmaceutical Testing 3C 2			3	Pharmaceutical Assaying 3D	2	3	3
Toxicology and Posology 5. 2			2	Bacteriology	3	9	6
Pharmaceutical Law	2		2	First Aid	1		1
Vegetable Histology 4..... 1			6				
Business Administration .. 1			2				
	9	23	17		3	24	16

Fourth Year.

Offered 1928-1929.

FIRST SEMESTER				SECOND SEMESTER			
	Lect.	Lab.	Credit		Lect.	Lab.	Credit
Pharmacy	1	3	2	Pharmacy	1	3	2
Physical Chemistry	2	3	3	Physical Chemistry	2	3	3
Pharmacognosy	1	6	3	Pharmacognosy	1	6	3
Chemistry, Physiological... 2			6	Food and Drug Analysis... 2			6
Serology and Immunology .. 2			3	Clinical Laboratory and Diagnostic Reagents 2			3
Civil Government	3		3	Economics	3		3
	11	21	18		11	21	18

Lectures and recitations fifty minutes.
Laboratory periods three hours, unless otherwise specified.

Description of Course

BACTERIOLOGY.

Classification and general characteristics of micro-organisms and the common protozoa, including culture media and methods of isolating and cultivation.

Third year, second semester, three lectures, three laboratory periods. Mitchell and Maldeis.

BOTANY, PHARMACOGNOSY, MATERIA MEDICA, ETC.

1. *Structural Botany*—A course in structural botany (organography), including classification and physiology of plant structures.

First year, second semester, two lectures, one laboratory period. Plitt, Cole and Slama.

2. *Materia Medica*—The study of sources, properties and uses of the drugs of the United States Pharmacopoeia and the National Formulary. Prerequisite—Botany 1.

Throughout the second year, two lectures. Plitt.

3. *Pharmacognosy*—A study of the physical characteristics of drugs, with special reference to the identification and purity of vegetable drugs. Prerequisite—Botany 1.

Throughout the second year, one lecture, one laboratory period. Plitt, Cole and Slama.

4. *Vegetable Histology*—A microscopic study of the structure of medicinal plants, including powdered drugs. Prerequisite—Materia Medica 2 and Pharmacognosy 3.

Third year, first semester, two laboratory periods. Plitt, Cole and Slama.

5. *Toxicology and Posology*—A classification of poisons and their antidotes, also a study of therapeutic and lethal doses.

Third year, first semester, two lectures. Plitt.

6. *First Aid*—A study of the means employed in giving first aid in emergency cases.

Third year, second semester, one lecture. Plitt.

BUSINESS ADMINISTRATION.

Business forms and practices applicable to pharmacy, including bookkeeping, banking, inventories, insurance and contracts.

Third year, first semester, one lecture, one laboratory. Cutchin.

CHEMISTRY.

1. *General Inorganic Chemistry*—The first semester is devoted to a study of the chemistry of the non-metals and the fundamental concepts of inorganic chemistry. During the second semester the metallic elements are studied from the standpoint of systematic qualitative analysis.

Throughout the first year, two lectures, two laboratory periods. Wich, Vanden Bosche and Bauer.

2. *Organic Chemistry*—General organic chemistry, including aliphatic and aromatic derivatives. Compounds of special interest to pharmacy are also prepared. Prerequisite—Chemistry 1.

Throughout the second year, two lectures, two laboratory periods. DuMez, Wich and Bauer.

3. *Quantitative Analysis*—A study of quantitative methods. Prerequisites—Chemistry 1 and 2.

Second year, second semester, one lecture and two laboratory periods. DuMez, Wich and Bauer.

4. *Physical Chemistry*—Fundamental concepts of physical and colloidal chemistry. Prerequisites—Chemistry 1, 2 and 3.

Throughout the fourth year, two lectures, one laboratory period. Vanden Bosche.

5. *Physiological Chemistry*—A study of the chemistry of metabolism, body fluids and secretions. Prerequisites—Chemistry 1, 2 and 3.

Fourth year, first semester, two lectures and two laboratory periods. DuMez.

6. *Food and Drug Analysis*—A study of the methods employed by public health laboratories to control food and drug products.

Fourth year, second semester, two lectures and one laboratory period. Krantz.

ENGLISH.

Composition and rhetoric, including parts, principles and conventions of effective thought communication; reading study and analysis of standard contemporary prose specimens; original exercises and themes.

Throughout first year, three lectures. Ericson.

GERMAN AND FRENCH.

German—Grammar, dictation, oral and written translation from English into German, reading of prose selections and short stories.

Throughout the first year, four lectures. Friedrich.

French—Elements of grammar, drill upon pronunciation, composition, conversation, reading of prose selections and short stories.

Throughout the first year, four lectures. Friedrich.

Students will be assigned one of the two languages by the department. The assignment will ordinarily be made on the basis of the student's previous training.

No credit will be given for the first semester until the second semester has been completed. Eight hours credit in Spanish will be accepted in lieu of the foregoing.

MATHEMATICS.

1. *Algebra*—Quadratics, simultaneous quadratic equations, graphs, progressions and logarithms.

First year, first semester, three lectures. Schad.

2. *Trigonometry*—Trigonometric functions, including deduction of formulas and their application to the solution of triangles, trigonometric equations, etc.

First year, second semester, three lectures. Schad.

PHARMACY.

1A. *Pharmaceutical Technic*—A study of elementary dispensing technic.

First year, first semester, one laboratory period. Wolfe, Andrews and Schmidt.

1B. *Theoretical Pharmacy*—A general and historical study of the United States Pharmacopoeia and National Formulary and other authoritative standards.

First year, second semester, one lecture. Krantz.

1C. *Pharmaceutical Mathematics*—The mathematical calculations involved in the practice of pharmacy.

First year, second semester, one lecture. Krantz.

2A. *Theoretical and Practical Pharmacy*—A study of the theory and practice of pharmaceutical manipulations. Prerequisites—Pharmacy 1A and 1B.

Throughout the second year, two lectures, two laboratory periods. Krantz and Reindollar.

3A. *Dispensing Pharmacy*—A study of the compounding and dispensing of prescriptions. Prerequisites—Pharmacy 2A.

Throughout the third year, two lectures, two laboratory periods. Wolfe, Andrews and Schmidt.

3B. *Hospital Dispensary Practice*—Practical work in dispensing in hospital pharmacies, including manufacturing on a large scale. Prerequisites—Pharmacy 2A.

Throughout the third year, two laboratory periods. Andrews.

3C. *Pharmaceutical Testing*—A study of the qualitative tests of the United States Pharmacopoeia. Prerequisites—Pharmacy 2A.

Third year, first semester, two lectures, one laboratory period. Krantz and Wich.

3D. *Pharmaceutical Assaying*—A study of the quantitative procedures for the standardization of drugs and medicines, with special reference to the methods of the United States Pharmacopoeia and National Formulary. Prerequisites—Pharmacy 2A.

Third year, second semester, two lectures, one laboratory. Krantz and Wich.

PHARMACEUTICAL LAW.

Fundamentals of law of interest to pharmacists, with especial reference to the regulation of the practice of pharmacy; and the dispensing of poisons, narcotics and alcoholic liquors.

Third year, first semester, two lectures. Cole.

PHYSICS.

The laws, principles and theories that govern the various physical phenomena in sound, light, magnetism, electricity, mechanics and heat.

Throughout the second year, three lectures, one laboratory period. Eichlin and Austermann.

PHYSIOLOGY AND HYGIENE.

Elementary anatomy and histology of the body; including discussion of functions of the various organs.

Second year, first semester, three lectures. Mitchell.

ZOOLOGY.

A study chiefly of invertebrate animals, with laboratory work on typical specimens of each of the various phyla.

First semester, first year, two lectures, one laboratory period.
Thompson.

TEXT BOOKS.

U. S. Pharmacopoeia, National Formulary, Simon's Manual of Chemistry, Norris' Organic Chemistry, Schimpf's Volumetric Analysis, Caspari's Treatise on Pharmacy, Culbreth's Pharmaceutical Botany, Culbreth's Materia Medica and Pharmacology, Brundage's Toxicology, Sturmer's Pharmaceutical Arithmetic, Bachmann & Bliss Essentials of Physiology, including Pharmacodynamics, Hiss and Zinser's Bacteriology, Gordon Project Study in Chemistry, Chapin's Second Year College Chemistry, Pittinger's Biochemic Assays, Lyon's Standardization of Organic Drugs, Hawk's Physiological Chemistry, Urine Examinations for Students of Pharmacy and Nursing, Florin K. Amrhein. Hegner's College Zoology, Pratt's Invertebrate and Vertebrate Zoology. Text books on the general educational subjects will be announced at the opening of the course.

Books of Reference—National Standard Dispensatory, United States Dispensatory, Remsen's Theoretical and Organic Chemistry, Beal's Chemical Arithmetic, Prescott and Johnson's Qualitative Analysis, Scoville's Art of Compounding, Gray's New Lessons in Botany, Rusby and Jelliffe's Morphology and Histology of Plants, Holland's Medicinal Chemistry and Toxicology, Howell's Text Book of Physiology, Park and William's Bacteriology, Jordan's Bacteriology, Hough and Sedgwick's The Human Mechanism, Schneider's Pharmaceutical Bacteriology, Gray's Manual of Botany, Steven's Plant Anatomy.

IMPORTANT NOTICE.

The rules and conditions stated in this prospectus will govern students until the next succeeding issue, after which time they will be governed by the conditions stated in the latter.

ROLL OF STUDENTS

SESSION OF 1925-1926.

Abramowitz, R. N. District of Columbia	Cohen, Isidore.....Maryland
Adalman, Philip.....Maryland	*Cohen, Louis.....New Jersey
Albrecht, Wm. Francis.....Maryland	Cohen, Max Hurston.....Virginia
Arcilesi, Miss Anna Adeline Maryland	Cohen, Saul Charles.....Maryland
*Balducci, Albert M.....Pennsylvania	Cooper, Morris.....Maryland
Barry, Wilbur Ford.....Maryland	Crandall, Charles R.....Maryland
Batie, Albert Lester.....Maryland	*Crecca, Anthony D.....New Jersey
Bauer, John Conrad.....Maryland	Cwalina, Benj. Chester.....Maryland
Baylus, Meyer M.....Maryland	Delcher, Charles R.....Maryland
Beal, Cecil Francis.....Maryland	Delson, Hyman.....Maryland
Beck, Jesse Philip.....Maryland	Demback, Walter D.....Maryland
Beitler, Samuel Donald.....Maryland	Diamond, Bernard J.....Virginia
Beiford, Joseph.....Maryland	Dickman, Hyman.....Maryland
*Bell, John Franklin.....Maryland	Doty, Elmer C.....Maryland
*Benick, Carroll R.....Maryland	Drukman, Herman B.....Maryland
Bercowitz, Bernard J.....Maryland	*Eichengreen, Sydney.....Maryland
Berger, Wm. Samuel.....Russia	Eichert, Herbert.....Maryland
Bergner, Samuel Wm.....Maryland	Etzler, Samuel Alvin.....Maryland
*Berman, Hyman A.....Maryland	Eybs, Earl Francis.....Maryland
Bernstein, Joseph.....Maryland	Fisher, Delphia F., Jr.....Maryland
Bernstein, Joseph C.....Maryland	Fitez, George Rolland.....Maryland
Binkley, Leavitt H.....Maryland	Fitzsimmons, Milton J.....Maryland
Blum, Joseph Sydney.....Maryland	Flescher, Julius.....Maryland
Blumson, Samuel.....Maryland	Foose, Wilbur C.....Pennsylvania
Bradford, John H.....West Virginia	Fuqua, Robert S.....North Carolina
Bretzfelder, Benjamin District of Columbia	Gakenheimer, Albert C.....Maryland
Brinson, Adinirian J. North Carolina	Gaver, Herman Staley.....Maryland
Budacz, Frank M.....Maryland	Ginsberg, Harry.....Maryland
Budacz, Peter Thomas.....Maryland	Glass, Albert Julius.....Maryland
Cannaliato, Vincent J.....Maryland	Gleiman, Isidore Jacob.....Maryland
Cardell, Jeremiah C.....Vermont	Goldstein, Isadore Alvin.....Maryland
Catlett, Ollie Edwin.....Maryland	Goldstein, Samuel W.....Maryland
Cermak, Miss Bertha M.....Maryland	Goodman, Daniel.....Maryland
Cermak, James J., Jr.....Maryland	Goodman, J. H.....Pennsylvania
Chandler, Wm. Willard.....Virginia	Gordon, Jack Bernard.....Maryland
Christ, Frank Picha.....Maryland	Gottdiener, Elvin Edw.....Maryland
Clayman, David S.....Maryland	Greenbaum, Samuel L.....Maryland
Cohan, Nathaniel T.....New Jersey	Greenfeld, Charles.....Maryland
Cohen, Archie Robert.....Maryland	Greif, Daniel.....Maryland
Cohen, Benjamin B.....Maryland	Greif, Julius.....Maryland
Cohen, Irvin J.....Maryland	Griffith, Gilbert R.....Maryland
Cohen, Isadore Irvin.....Maryland	Grollman, Ellis.....Maryland
	Gross, William.....Maryland
	Hahn, Charles J.....Maryland
	Hantman, Irving.....Maryland

Haskell, Miss Marian L.	Maryland	McAllister, Benj., Jr.	Maryland
Heer, Wilmer Jacob	Maryland	McFarland, Robert E.	Maryland
Hergenrather, Miss Elizabeth S.	Maryland	McGarry, Chas. Edw.	Maryland
Hershner, John F.	Maryland	McGill, Robert Leo.	Maryland
Herskowitz, Miss Clara	Maryland	McLaughlin, Jack McDowell,	Pennsylvania
Heyda, Theodore G.	Maryland	Maczis, Wm. Joseph	Maryland
Hoffman, Aaron	Maryland	Maisel, Benjamin	Maryland
Hoffman, Harry	Maryland	Manchey, Lessel L.	Pennsylvania
Horine, Randolph A.	Maryland	Margulies, Oscar	Maryland
*Hudgins, Bailey Diggs	Virginia	Martin, Thos. Adrian	Maryland
Itzoe, Andrew J.	Pennsylvania	Martocci, Filbert Jos.	Maryland
Jacobson, Samuel M.	Maryland	Martz, Wm. Ernest	Virginia
Jarvis, Chas. Ferguson	Maryland	Maserowitz, Louis	Maryland
Kairis, John Joseph	Maryland	Matassa, Vincent L.	Maryland
Kalkreuth, Clyde N.	Maryland	Meagher, Harry Royce	Maryland
Kaminska, Miss Janina J.	Poland	Mears, Lee Kerns	Maryland
*Kane, Francis Joseph	Connecticut	Meyers, Louis Lear	Maryland
Karasik, William	Maryland	Michel, George Chas.	Maryland
Karpa, Isador	Maryland	Millard, Miss Ruth	Maryland
Katz, Herbert Alfred	Maryland	Miller, Israel	Maryland
*Kaylus, Edward M.	Maryland	Millett, Joseph	Maryland
Kellough, Chas. Irvin	Maryland	Misler, Bernard	Maryland
Kolman, Merwin Alfred	Maryland	Moffitt, Otto Edw.	Pennsylvania
Kramer, Philip	Maryland	Moore, Geo. Richard	Connecticut
Kraus, Louis Henry	Maryland	Morgan, Alfred Kirke	Maryland
Kremer, Casper L.	Maryland	Muir, Wm. Alexander	Maryland
Kress, Milton Bernard	Maryland	Myers, Ellis Benj.	Maryland
Kroopnick, Godfrey D.	Maryland	Nitsch, Chas. Ambrose	Maryland
Krucoff, Maxwell Alvin	Maryland	Noil, Mrs. Violet B.	Maryland
*Kurek, Anthony Thos.	Maryland	Norman, Herman	Russia
*Langeluttig, Ira Lee	Maryland	O'Connor, Miss Rita F.	Maryland
Lazzaro, Samuel Frank	Maryland	Olsan, Frank	Maryland
Lebowitz, Harry	Maryland	*Omansky, Samuel	Maryland
Lesser, Abraham	Russia	Ordakowski, T. Ed.	Maryland
Levin, Joseph	Maryland	Pagenhardt, A. E.	Maryland
Levin, Sidney	Maryland	Pogorelskin, Morton	Maryland
Levine, Vincent Chas.	Maryland	Portocarrero, Oscar	Porto Rico
*Levinson, Milton R.	Maryland	Price, Carroll	Pennsylvania
Levy, Morris Z.	Maryland	Pugatsky, David	Maryland
Lewis, Frank Harold	Maryland	Racusin, Nathan	Maryland
Liberto, Joseph	Maryland	Raslavitch, Chas.	Maryland
Lipskey, Joseph	Maryland	Restivo, Philip Jos.	Maryland
Lipsky, Harold	Maryland	*Richardson, Chas. H.	Maryland
London, Samuel	Maryland	Rodowskas, C. A.	Maryland
Luce, Harold Denton	New York	Rome, Albert	Massachusetts
Lum, Max Robert	Maryland	*Rosen, Harry	Maryland
*MacGill, Fred Holt	New Jersey	*Rosenberg, Julius L.	Maryland
		Rosenblatt, Sydney	Maryland

Rosenfeld, Albert.....	Maryland	*Smith, Wm. Joseph.....	Maryland
Rosenfeld, David H.....	Maryland	Snyder, Jerome.....	Maryland
Rosenstein, Aaron.....	Maryland	Snyder, Paul Jay.....	Maryland
Rubin, Wm. Merwin.....	Maryland	*Songer, James.....	Illinois
Sachs, Abraham.....	Maryland	Sothoron, L. J., Jr.....	Maryland
Sachs, Raymond.....	Maryland	Spector, Harry.....	Maryland
*Sadowski, Charles D.....	Maryland	Springer, Harry.....	Maryland
Sager, Bennie J.....	Virginia	Springer, L. Rex.....	Maryland
*Saslaw, Israel S.....	Maryland	Stambovsky, Louis.....	New Jersey
Satou, Marcus.....	Maryland	Stichman, Solomon.....	Maryland
Saunders, T. S., Jr.....	Maryland	Stine, Harry.....	Maryland
*Schaumloeffel, C. E., Jr.,	Maryland	Swiskowski, F. L.....	Maryland
Schiff, Nathan.....	Maryland	Szczepkowska, Miss Irene U.,	Connecticut
Schlachman, Milton.....	Maryland	Tarantino, John T.....	Maryland
Schnabel, Wm. Thomas.....	Maryland	*Taylor, John Smith.....	Maryland
Schneider, Jack,	District of Columbia	Theodore, Raymond M.....	Maryland
Schwartz, David I.....	Maryland	Timmons, Wm. Dale.....	Maryland
Schwartz, Harry.....	Maryland	Trattner, Jas. N.....	Pennsylvania
Sears, Jos. Everett.....	Maryland	Webster, Samuel Earl.....	Maryland
Senger, Jos. Anton.....	Maryland	Weiner, Morton.....	Maryland
Sheselsky, Samuel J.....	Maryland	Whitaker, F. B.....	North Carolina
Shure, Bernard G.....	Maryland	Wich, Carlton Edwin.....	Maryland
Sienkiewicz, E. H.....	Maryland	Widoff, Gustav A.....	Maryland
Silbert, Andrew W.....	Maryland	Wilkerson, George E.....	Maryland
Silverman, Albert M.....	Maryland	Wolfe, Morris.....	Maryland
Silverman, Sylvan B.....	Maryland	Wood, Medford C.....	Pennsylvania
Sklar, Isidore.....	Maryland	Yarmack, Morris.....	Maryland
Skup, David A.....	Massachusetts	Ziegler, John Haller.....	Maryland
Smith, Bernard Thos.....	Maryland	Zvares, Simon.....	Maryland

SPECIAL STUDENTS

*Daskais, Morris H.....	Maryland	Marx, Ernest B.....	New Jersey
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*Did not attend entire session.

ROLL OF GRADUATES

JUNE 5, 1926

"GRADUATE IN PHARMACY"

Philip Adalman.....	Maryland	Ellis Grollman.....	Maryland
A. Lester Batie.....	Maryland	John F. Hershner.....	Maryland
John Conrad Bauer.....	Maryland	Clara D. Herskowitz.....	Maryland
Meyer Milby Baylum.....	Maryland	Clyde N. Kalkreuth.....	Maryland
Samuel Donald Beitler.....	Maryland	William Karasik.....	Maryland
Joseph S. Blum.....	Maryland	Godfrey D. Kroopnick.....	Maryland
John H. Bradford.....	West Virginia	Joseph L. Levin.....	Maryland
P. Thomas Budacz.....	Maryland	F. Harold Lewis.....	Maryland
Albert Meyer Cahn.....	Maryland	Joseph Lipskey.....	Maryland
Jeremiah Curtin Cardell.....	Vermont	William J. Maczis.....	Maryland
Ollie Edwin Catlett.....	Maryland	Harry R. Meagher.....	Maryland
Newton B. Caudy.....	West Virginia	L. Kearns Mears.....	Maryland
Bertha M. Cermak.....	Maryland	Israel M. Miller.....	Maryland
James J. Cermak, Jr.....	Maryland	Bernard Misler.....	Maryland
David S. Clayman.....	Maryland	G. Richard Moore.....	Connecticut
Abraham N. Cohen.....	Maryland	Violet Blickenstaff Noll.....	Maryland
Archie Robert Cohen.....	Maryland	Carroll F. Price.....	Pennsylvania
Irvin Joseph Cohen.....	Maryland	Nathan Racusin.....	Maryland
Max H. Cohen.....	Virginia	Albert Rosenfeld.....	Maryland
S. Charles Cohen.....	Maryland	Aaron Rosenstein.....	Maryland
Morris Cooper.....	Maryland	Milton John Sappe.....	Maryland
Chas. Robert Crandall.....	Maryland	Wm. Thomas Schnabel.....	Maryland
Benj. Chester Cwalina.....	Maryland	J. Schneider.....	District of Columbia
Alphonse David.....	Maryland	Harry Schwartz.....	Maryland
Bernard J. Diamond.....	Virginia	Joseph Everett Sears.....	Maryland
Herman B. Drukman.....	Maryland	Bernard G. Shure.....	Maryland
Myrle Paul Ernst.....	Maryland	E. H. Sienkiewicz.....	Maryland
Earl Francis Eybs.....	Maryland	Isidore Allen Sklar.....	Maryland
Michael A. Fisher.....	Pennsylvania	Bernard Thomas Smith.....	Maryland
Julius Flescher.....	Maryland	Levin J. Sothoron, Jr.....	Maryland
Robert S. Fuqua.....	North Carolina	Harry Stine.....	Maryland
A. C. Gakenheimer.....	Maryland	Arthur Storch.....	Maryland
Harry Ginsberg.....	Maryland	Wm. D. Timmons, Jr.....	Maryland
Isadore Alvin Goldstein.....	Maryland	Hammond Totz.....	West Virginia
Samuel W. Goldstein.....	Maryland	Carlton Edwin Wich.....	Maryland
Julius H. Goodman.....	Pennsylvania	George E. Wilkerson.....	Maryland
Jack B. Gordon.....	Maryland	Morris Wolfe.....	Maryland
Elvin Edw. Gottdiener.....	Maryland	John Haller Ziegler.....	Maryland

"PHARMACEUTICAL CHEMIST"

Arthur Storch..... Maryland

HONOR ROLL

Gold Medal for General Excellence..... Harry Ginsberg

Simon Prize for Practical Chemistry..... John Conrad Bauer

CERTIFICATE OF HONOR—SECOND YEAR CLASS

Harry Stine

HONORABLE MENTION—FIRST YEAR CLASS

Arthur Ewing Pagenhardt..... James Nathan Trattner

Aaron Hoffman